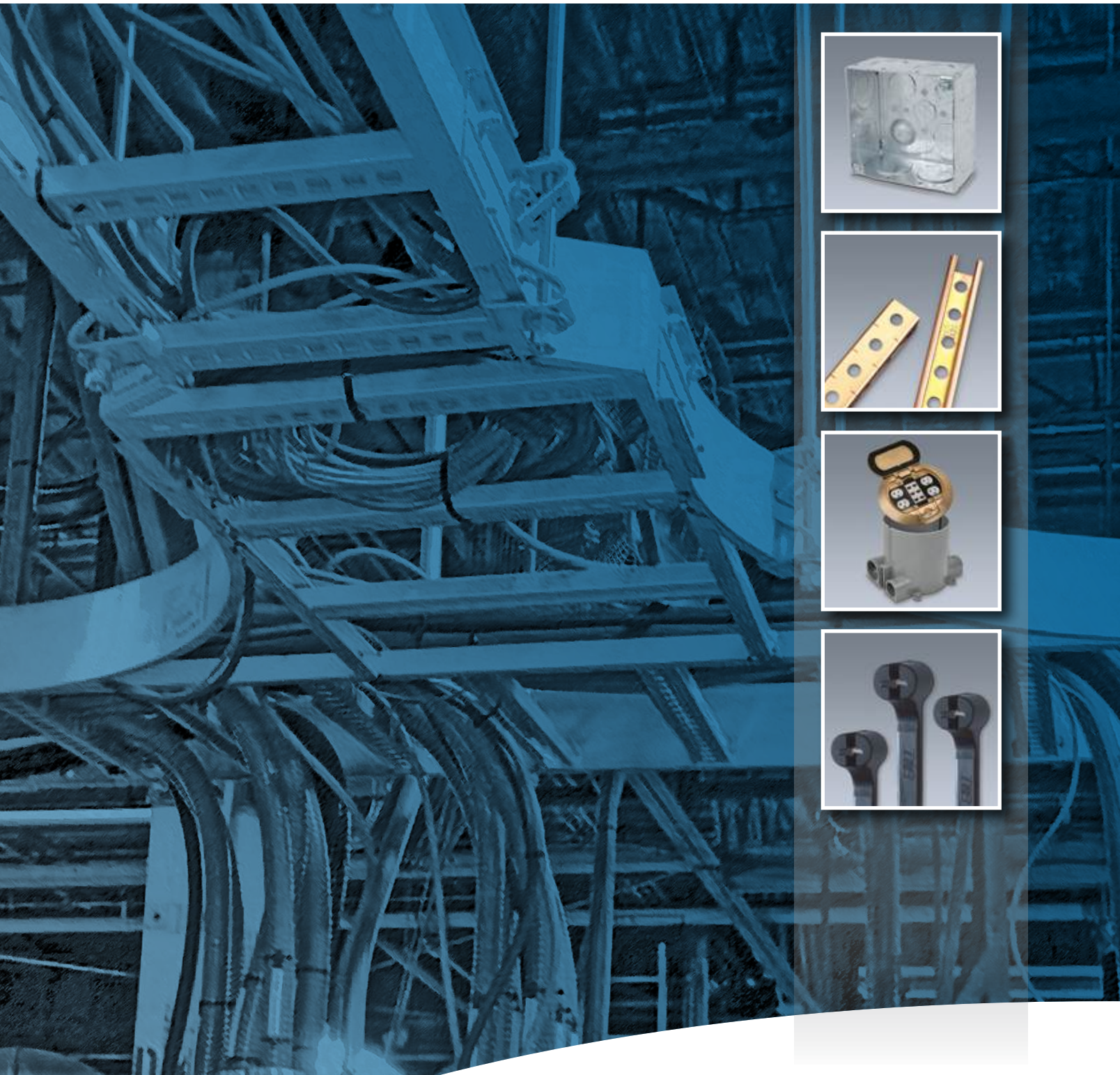
**A Global Leader in Innovative...**

Wire & Cable Management • Cable Protection Systems
Power Connection & Control • Safety Technology

Thomas&Betts











# Wire & Cable Management

www.tnb.com

# Choose Thomas & Betts and connect to the power you need.

For over 100 years, Thomas & Betts has successfully applied innovative design and manufacturing techniques to meet the changing needs of the marketplace. Today, we offer more than 100,000 electrical components and systems to terminate, connect, fasten, protect and identify wires, components and raceway. Our vast offering makes us one of the largest and best sources of electrical components in North America.

## At T&B, we're committed to:

- Products which provide solutions to your electrical needs
- Convenience of single-order, single-shipment to your site for thousands of stocking items
- Expert local point of contact for clear, consistent information regarding training, codes and standards
- Quality brands that have proven themselves over time
- Inventive design and manufacture of problem-solving products
- Offering a best-of-class warranty and returns policy
- Uniform carton labeling with additional bar-coding for convenient inventory management
- Nationwide network of stocking electrical distributors
- Outstanding customer service capability
- Supplying you with the right products, convenient packaging, on-time delivery and competitive pricing

We deliver the solutions that make your job easier and offer the power to bring it all together in one package. Call us today and let us help you profit from sourcing your electrical products from the leader, Thomas & Betts.

**Healthcare**




**Wastewater Treatment**



**Food and Beverage**



**Oil and Gas**





# Wire & Cable Management

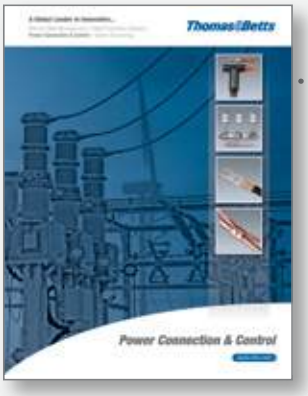
## Access the Full Range of Thomas & Betts Electrical Solutions.

*Other Thomas & Betts Catalogs...*




**Cable Protection Systems — CAT2**

- Industrial Conduit & Fittings
- Flexible Conduit & Fittings
- PVC-Coated Conduit & Fittings
- Commercial Conduit & Fittings




**Power Connection & Control — CAT3**

- Connectors & Grounding
- Wire Termination
- Power & High Voltage
- Power Quality




**Safety Technology — CAT4**

- Hazardous Location Lighting
- Emergency Lighting
- Surge Protection

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# Vertical Market Solutions

## Single- and Multi-Family Housing









At Thomas & Betts, residential construction goes beyond the simple house on the corner. From a single-family home to a multi-story apartment complex or high-rise condominium, we understand the dynamic challenges faced in the residential market and are committed to providing innovative electrical solutions that promote sustainability, reduce overall project costs and provide a safe working and living environment.

Technology and regulatory evolution is driving change throughout our living areas, and Thomas & Betts is focused on providing solutions that not only solve current real-world problems, but offer the flexibility to accommodate future demands.

**For more information, request the Thomas & Betts Electrical Solutions for Single- and Multi-Family Housing brochure, GM-8330.**







## Commercial and Institutional Facilities









Thomas & Betts understands the challenges faced in commercial and institutional projects and is committed to providing innovative electrical solutions that not only reduce overall project costs, but also increase safety, promote sustainability and even improve cash flow. Whether it's labor-saving rough-in components, custom-designed electrical prefabrication systems, online cloud-based design tools or even our world-class logistics, Thomas & Betts can help bring commercial and institutional projects in on time, within budget and profitably.

**For more information, request the Thomas & Betts Electrical Solutions for Commercial and Institutional Facilities brochure, GM-8333.**







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# Vertical Market Solutions

## Food and Beverage Processing Industry









At Thomas & Betts, we understand the challenges you face in the food and beverage processing industry today. We're focused on providing electrical solutions that address the critical issues in every area of your operation, so you can focus on plant sustainability, cost, quality, flexibility, food and personnel safety and regulatory challenges across the production cycle. Our family of electrical solutions matches specific application criteria from start to finish inside food processing areas, assuring the quality and reliability of your electrical system throughout your facility, from incoming raw materials through shipping of finished goods. And with the industry's most efficient distribution system, we're prepared to meet your ongoing MRO, OEM and construction needs down the road.

**For more information, request the Thomas & Betts Electrical Solutions for Food and Beverage Processing Facilities brochure, GM-8306.**







## Metals and Mining Industry









Thomas & Betts' long-term presence in the utility and industrial markets continues to drive the development of innovative electrical products that meet the stringent application requirements of metals and mining operations and perform over extended lifecycles. Our solutions are tailored to help you optimize operating costs and improve return on capital investments while protecting the environment and ensuring safety to workers and production assets. Our global network and fast logistics are in place to support your MRO, OEM and construction activities around the world.

**For more information, request the Thomas & Betts Electrical Solutions for the Metals and Mining Industry brochure, GM-8332.**







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# Vertical Market Solutions

## Pulp and Paper Processing Industry









At Thomas & Betts, we understand the challenges you face in the pulp and paper processing industry today. We're focused on providing electrical solutions that address the critical issues in every area of your operation, so you can focus on plant sustainability, personnel safety, cost, quality, flexibility and regulatory challenges across the production cycle. Our family of electrical solutions matches specific application criteria from start to finish inside processing areas, assuring the quality and reliability of your electrical system throughout your facility, from incoming raw materials through shipping of finished goods. And with the industry's most efficient distribution system, we're prepared to meet your ongoing MRO, OEM and construction needs today.

**For more information, request the Thomas & Betts Electrical Solutions for Pulp and Paper Processing Facilities brochure, GM-8335.**







## Chemical Industry










Thomas & Betts designs, manufactures and supplies solutions for electrical systems. In order to be profitable running special batches or continuous commodity compounds, you need reliable, robust and cost-effective equipment. Your systems need to operate at peak performance. That's why we invest considerable resources towards R&D, training and channel management. Our products solve real-world problems. Thomas & Betts offers the industry's most advanced materials distribution system, and our commitment shows in our unmatched products, unequaled service and loyalty from end-users, OEMs and contractors.

**For more information, request the Thomas & Betts Electrical Solutions for the Chemical Industry brochure, GM-8336.**







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# Vertical Market Solutions

## Oil and Gas Industry









Thomas & Betts designs, manufactures and supplies technically advanced products for electrical systems. Profitable drilling, extracting, processing, transporting and dispensing operations require reliable, robust and cost-effective equipment. That's why we invest extensive amounts on R&D, training and channel management. Our solutions solve real-world problems. Thomas & Betts offers the industry's most advanced materials distribution system, and our commitment shows in our unmatched products, unequaled service and loyalty from end-users and OEMs.

**For more information, request the Thomas & Betts Electrical Solutions for the Oil and Gas Industry brochure, GM-8329.**








## Water/Wastewater Treatment









At Thomas & Betts, we're focused on providing products that address the issues in every area of your wastewater treatment facility, so you can focus on cost, quality, flexibility and regulatory challenges. Our family of products matches specific application criteria from start to finish, assuring the quality and reliability of your electrical system throughout your facility, from power substation to administration buildings. With the industry's most efficient distribution system, we're also prepared to meet your ongoing MRO needs down the road.

**For more information, request the Thomas & Betts Electrical Solutions for Wastewater Treatment Facilities brochure, GM-8291.**







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# Vertical Market Solutions

## Civil Infrastructure









At Thomas & Betts, we understand the challenges faced in civil infrastructure. We're focused on providing electrical solutions that address the critical issues in every transportation sector, so you can focus on sustainability, cost, quality, flexibility, safety and regulatory compliance. Our family of quality electrical solutions matches specific application criteria, ensuring the continued reliability of infrastructure. And with the industry's most efficient distribution system, we're prepared to meet your ongoing operation and maintenance needs as well as serve new OEM and construction investments.

**For more information, request the Thomas & Betts Electrical Solutions for Civil Infrastructure brochure, GM-8331.**







## Renewable Energy









The demand for natural, clean and sustainable energy resources has brought solar and wind power generation into the spotlight. Investments and incentives by public and private entities are speeding green development and proliferation, yet the promise is not fully realized. Thomas & Betts is committed to seeing the industry succeed — and thrive. We design integrated solutions with higher quality materials, fewer parts and ease of installation coupled with maintenance in mind in order to reduce product lifecycle costs. We provide the information and training necessary to correctly install and maintain critical structural systems for safe and reliable operation. With solutions from Thomas & Betts, you will meet your cost, quality, performance and regulatory challenges.

**For more information, request the Thomas & Betts Electrical Solutions for Renewable Energy brochure, GM-8334.**







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# Vertical Market Solutions

## Power Generation









The power generation industry, which has performed solidly for decades, is undergoing a transformation brought on by government regulations, consumer demand and evolving industry standards. New and emerging technological developments support cleaner and more efficient energy generation and higher availability for plants young and old. Thomas & Betts is leading the way with high-quality, innovative electrical systems and devices that perform optimally with minimal product lifecycle costs. Integrated engineering design solution sets simplify product selection. Fewer, snap-together parts ease installation and maintenance. Training and support services ensure ongoing safe and reliable operation, while warranties instill confidence that our products will perform as required and meet your performance and output demands.

**For more information, request the Thomas & Betts Electrical Solutions for Power Generation brochure, GM-8337.**








## Power Transmission and Distribution









From transmission lines and local distribution networks that crisscross the landscape to the customer premises, you'll find Thomas & Betts products to help you manage and control the constant flow of power. We understand that your customers depend on you to deliver a continuous, uninterrupted power flow, and that you rely on us to provide solutions that enable optimal reliability and efficiency. We also recognize your need to reduce the maintenance, repair and operations costs in your electric power transmission and distribution systems. Whether your systems are overhead or underground, we are your partner in power delivery. Our broad family of electrical solutions enables us to support your design, construction, operations and maintenance requirements economically, with fewer and shorter outages.

**For more information, request the Thomas & Betts Electrical Solutions for Power Transmission and Distribution brochure, GM-8338.**







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## T&B Services

# Customer Service

**1-800-816-7809**

### Immediate, Knowledgeable Assistance



Every Thomas & Betts Customer Service Representative is right where the action is — surrounded by all the support and information they need to answer your questions and fill your orders faster than ever. Your calls and faxes are automatically routed to Customer Service Specialists who personally serve your account and can answer questions about products, order status, price and availability, and other service-related inquiries.

**Phone:** 1-800-816-7809
**Fax:** 1-800-816-7810
**Email:** generalcustomerserviceteam@tnb.com

# Technical Services

**1-888-862-3289**

### Over 170 Years of Industry Experience



Meeting and exceeding our customers' expectations is a fundamental goal of Thomas & Betts. Call our Technical Services Department and talk LIVE to an expert who'll answer questions and concerns regarding all aspects of our products and services. Our experienced and knowledgeable staff is second to none in the industry!

# Tool Services

**1-800-284-TOOL**

### Quality You Can Trust



Trust T&B's dedicated Tool Services Department to answer all questions regarding tool applications, repair, warranties, sales/lease/rental and technical information. Ask about our specialized services, including customer/sales training, demos and calibration/certification of tools.

## T&B Online Support

# T&B Access®

**www.tnb.com**



T&B Access® is a global sales tool for our distributor partners, offering:

- Quote Requests
- Stock Checks
- Pricing Inquiries
- Cross Reference
- Order Entry
- Order Resolution
- Shipping Status
- Document Look-Up
- Automatic Order Receiving
- Item History Search
- Multiple-Location User Search
- Context-Sensitive Help
- Shipping Confirmations
- Tracking Data
- Expediting
- Returns Processing
- Quality Issues
- Customer Report Cards
- Web Catalog Look-Up

All of these tools and more are available online 24 hours a day – 7 days a week, without having to make a single phone call. Multi-lingual options are available in English, French and Spanish. T&B Access® now serves over 10,000 satisfied customer users at over 3,500 locations every month.

# Web Catalog

**www.tnb.com/webcatalog**

## Thousands of Products at Your Fingertips



U.S. contractors and specifiers have made our web catalog their number one stop. Users can search for technical information by catalog number, UPC code, competitor number, keyword search, product category and/or brand. Having found the item(s) they are searching for, they can then use our ***Where To Buy*** function to locate a T&B local distributor and/or other support services.

## T&B Online Tools

# Web CAD Library

**www.tnb.com/CADLibrary**

### Over 4,000 2D and 3D CAD Models Available FREE!

The T&B CAD Library is an on-line source of 2D and 3D CAD models, available FREE to customers who register. Users can download these files to their desktops for import into their working drawings. Drawings are offered in 90 of the most popular native file formats. This is a valuable tool for CAD designers, OEMs and engineering firms, as it will allow them to quickly locate and download T&B drawings into their projects. Over 4,000 drawings of T&B® Fittings, PMA® Cable Protection, Kindorf®, Red•Dot® and Superstrut® products and Steel City® and Carlon® Floor Boxes are currently available.







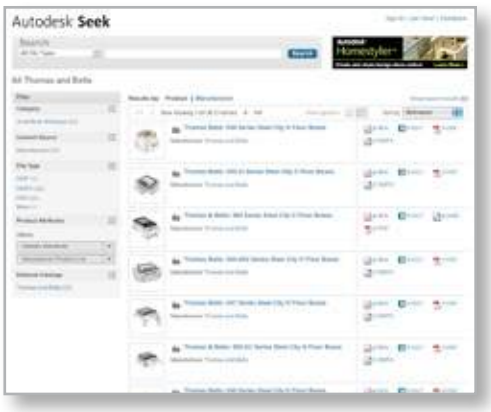



## T&B Online Tools

# BIM Library

Now available to you through Autodesk® Seek (**seek.autodesk.com**), our BIM (Building Information Modeling) objects can easily be imported to your Revit® models. These BIM objects are fully standards compliant, Revit® Certified and completely configurable.

*Autodesk and Revit are registered trademarks of Autodesk, Inc.*




# Floor Box Selector Guide

**www.tnb.com/floorboxselect**

## In-Floor Solutions at Your Fingertips

The Floor Box Selector makes it easy to identify the appropriate in-floor solution for power and communications services in any floor application. To begin the selection process, the user selects the basic floor type from four options. Then, with just a few clicks to identify the preferred configuration, the Selector will provide a complete bill of materials that includes all the necessary components for the installation. From the bill of materials, links are available to the T&B Web Catalog to download detailed product information such as cut sheets, product brochures, sales drawings, CAD files and product specifications.



## T&B Online Tools

# PreFabricator

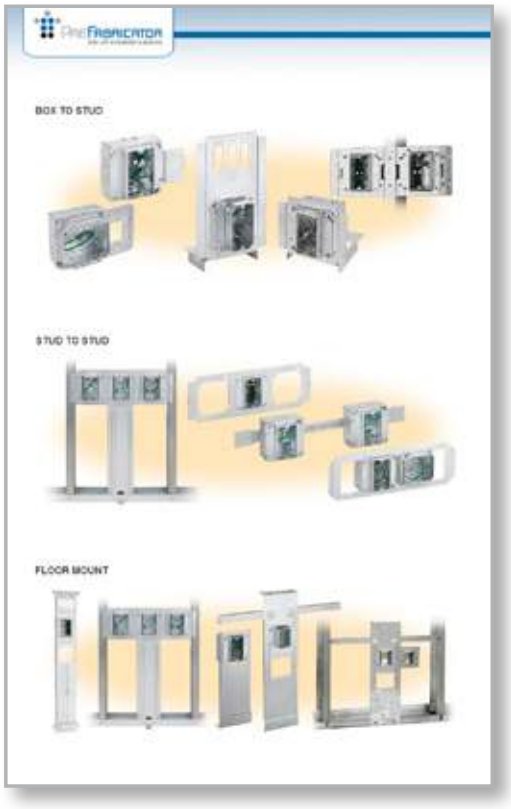
**http://productconfigurator.tnb.com**

### Build Your Own Pre-Fab Products

The Steel City® Prefabricator provides an electrical contractor an easy, intuitive and fast way to create made-to-order electrical rough-in assemblies. Several distinct advantages help assure a construction job will be completed accurately, on-time, within your budgeted cost with a minimum effort.

- Our design module allows the user to fully configure a pre-fab assembly using genuine Steel City® components complete with Bill of Materials, Customer Drawings, 3D Viewer/Images and AutoCAD® DXF file
- Our Shopping Cart allows you to select a distributor partner and obtain a quotation for your job electronically without having to make any phone calls
- Our Collaboration Module allows you to share your configuration with others for feedback, for quotation purposes, etc.
- The ORDER button creates the final T&B catalog number, the Bill of Materials, the drawings and the quotation from the distributor partner you selected and T&B

*AutoCAD is a registered trademark of Autodesk, Inc.*






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# New Products Spotlight

## Our New Products Save You Time and Money!

Thomas & Betts has been on the leading edge of engineering and design for more than a century, and new product development continues to keep us at the forefront of the electrical industry today.

T&B engineers and product managers continually study the latest code and technology changes and talk to customers to identify specific needs and opportunities for new product ideas.

But simply being new isn't enough to qualify for development under one of the high-quality Thomas & Betts family of brand names.

A T&B new product must achieve one or more of the following benefits for our customers:

- Lower installed costs
- Improved labor efficiencies
- Compliance with code requirements
- Solves specific application challenges

The following pages highlight new products that meet these criteria within our Wire & Cable Management products.







## Contents


**Steel City® Pre-Fab Assemblies and Boxes**

Pre-Fab Adjustable Floor Bracket....NP-2
Pre-Fab Dual Box-Mounting Bracket....NP-2
Pre-Fab T Bracket....NP-2
Cable Support Bracket....NP-3
Adjustable Mud Rings....NP-3
Adjust-A-Box®....NP-3

**Red•Dot® Weatherproof Boxes and Covers**

Code Keeper® Universal While-In-Use Covers....NP-4
Universal Flip-Lid Weatherproof Covers....NP-4
Code Keeper® Universal Recessed Box and Cover....NP-4

**Steel City® Floor Boxes**

Metallic Floor Box Covers....NP-5
665-AV2 Floor Box....NP-5
68-HP Floor Box....NP-5
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Recessed Pop-Up Receptacle....NP-6

**Kindorf® Modular Metal Framing System**

Trap-Eze™ Connector....NP-7
Trapnut® Strut Fastener....NP-7
Fast Set Beam Clamp....NP-7
Loc-King™ Cobra® Cable and Pipe Clamp....NP-8
Solar-Panel Hold-Down Clamps and Washer....NP-8

**T&B® Cable Tray**

Cable Tray Closure End Plate....NP-8


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# NEW Products

## Steel City® Pre-Fab

### Steel City® Pre-Fab Adjustable Floor Bracket

NEW!



***Built-in Far-Side Support for Both 4" and 6" Studs***
*Stabilizes box and bracket assembly, providing versatility on the job and ease of installation.*

***UL® Listed***

***Flexible Design***
*Accommodates both 4" and 4 11/16" boxes.*

***Single-Screw Vertical Height Adjustment***
*Up to 6 additional inches.*

***Built-in Slots for Horizontal Support Bar***
*Provides the option to reinforce stud-to-stud strength (horizontal support bar not included).*

***Built-in Cable Support***
*Reduces labor and material costs by eliminating the need to purchase and install a separate cable support.*

***Standard 12" and 18" Box Mounting Locations***

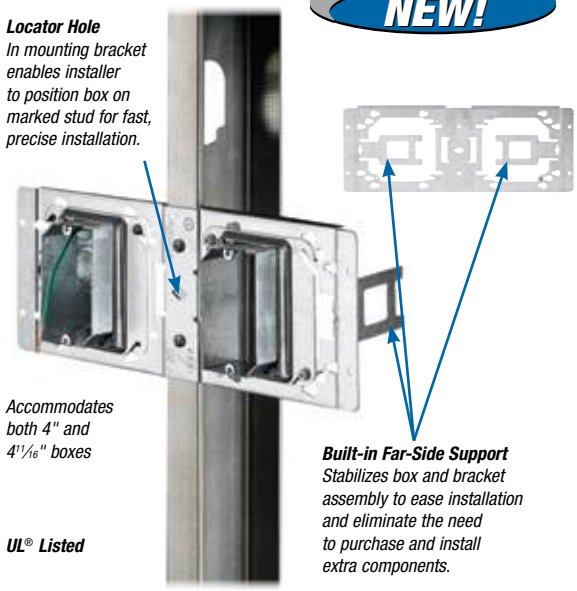
*6" Height Adjustment Markings*

For more information, see page A-15.

### Steel City® Pre-Fab Dual Box-Mounting Bracket

NEW!

***Locator Hole***
*In mounting bracket enables installer to position box on marked stud for fast, precise installation.*



*Accommodates both 4" and 4 11/16" boxes*

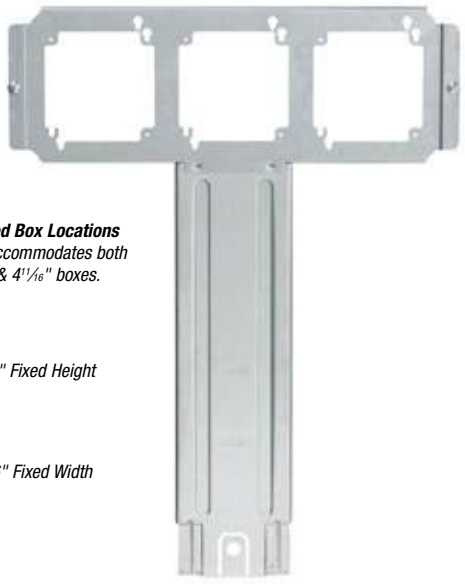
***UL® Listed***

***Built-in Far-Side Support***
*Stabilizes box and bracket assembly to ease installation and eliminate the need to purchase and install extra components.*

For more information, see page A-15.

### Steel City® Pre-Fab T Bracket

NEW!

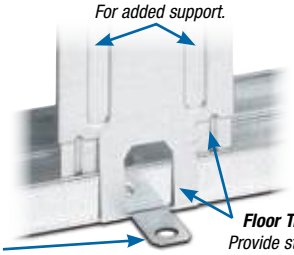


***3 Fixed Box Locations***
*Each accommodates both 4" & 4 11/16" boxes.*

*18" Fixed Height*

*16" Fixed Width*

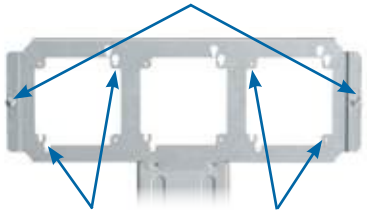
*Stability Ridges For added support.*



***Locator Tab***
*Helps locate installed boxes hidden by wall coverings.*

***Floor Track Tabs***
*Provide stability when positioning the bracket.*

***Integral Mounting Screws***
*Reduce installation time.*



***Key Hole Slots***
*Maintain box position if mud ring is removed.*

***Mud Ring Mounting Screw Holes***
*For low-voltage applications where no box is required.*

For more information, see page A-13.



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# Steel City® Metallic Boxes and Covers

## Steel City® Cable Support Bracket

- Provides a simple means of complying with NEC® 330.30 requirements for securing and supporting MC cable
- Quick and easy locking tab snaps through slot to secure cable
- Ribs maintain separation of cables
- Durable steel construction retains integrity
- Versatile design — use with Romex or MC cable
- UL® Listed

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

NEW!



For more information, see page A-16.

## Steel City® Adjustable Mud Rings

- Inner ring adjusts from ½" to 1½" depth
- Marked with a measured rule and equipped with two adjustment screws
- Inner ring can be easily adjusted after drywall installation

NEW!



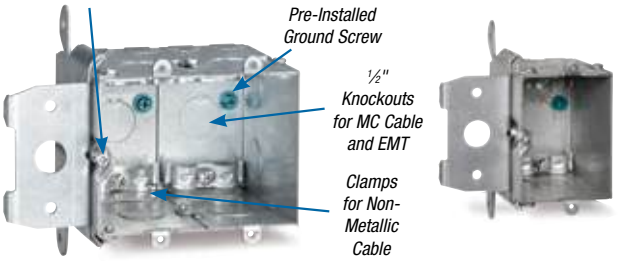


For more information, see page A-45.

## Steel City® Adjust-A-Box®

NEW!

- Unique design allows for adjustment of depth after the wall covering has been installed
- Mounts square and secure every time
- Removes easily to enable inner-wall access
- Accommodates high- and low-voltage applications
- Pre-installed ground screw




## Installation:

**Screw bracket to stud**



*Single-Gang*



*Two-Gang*

**Adjust box in or out to any wall thickness**



*Single-Gang*



*Two-Gang*

For more information, see page A-18.

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## Red•Dot® Weatherproof Boxes and Covers

### Red•Dot® Code Keeper® Non-Metallic Universal While-In-Use Covers




- Robust new hinge provides a sturdy cover attachment that is great for high-traffic areas
- Available in single- or two-gang configurations and standard or deep styles
- Keyhole mounts make it fast and easy to install — just loosen the existing device screws and slide the cover over

For more information, see page A-227.

### Red•Dot® Code Keeper® Metallic Universal While-In-Use Covers

"Extra-Duty" per NEC® Section 406.9(B)(1)

NEW!



- Complies with NEC® Section 406.9(B)(1) and 590.4(D)(4) for "Extra-Duty" outlet box hoods — now required for any installation other than one- or two-family dwellings
- Wide range of cover depths and receptacle configurations accommodates almost every common plug and cord size
- Key-hole mounts on back make installation fast and efficient
- Durable latching covers prevent accidental equipment disconnects, reduce tampering and deter theft

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

For more information, see pages A-213–A-216.

### Red•Dot® Universal Flip-Lid Weatherproof Covers

NEW!



- Included adapter plates offer 12 installation options with single-gang cover and 25 installation options with 2-gang cover
- Keyhole openings on back enable easy installation on an existing outlet
- Durable, die-cast zinc-alloy construction
- Suitable for use in wet locations with cover closed

For more information, see page A-217.

### Red•Dot® Code Keeper® Non-Metallic Universal Recessed Box and Cover

NEW!



- Universal design mounts either horizontally or vertically
- Included adapter plates allow one box and cover to fit 12 different installation configurations
- Installs on virtually any exterior surface in both new and old work applications including siding, brick or stucco

For more information, see page A-221.



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# Steel City® Floor Boxes

## Steel City® Metallic Floor Box Covers




- Solid brass and aluminum covers with a brushed finish — no plating or paint that can easily be scratched or chipped away by normal floor traffic and cleaning
- Hingeless cover design with no flip-up lids — nothing sticks up above floor level while in use
- Simple slide latch provides tool-less access to power and communications outlets

For more information, see pages A-131.

## Steel City® 665-AV2 Floor Box




- 2" KOs allow pre-terminated AV cables and connectors to be pulled directly through the conduit
- Accepts standard 665 Series covers and device plates for power, voice, data and audio-visual connections
- Rectangular adapters allow voice, data and AV connectors to be mounted in a standard GFCI device plate

For more information, see page A-134.

## Steel City® 68-HP Floor Box

- 6" diameter round non-metallic floor box — the largest in the industry
- Large inline hubs for power and data wiring: 1" for power, 1½" for data
- Accepts standard devices from any manufacturer, including duplex, GFCI, locking, hospital-grade or isolated ground receptacles
- Accommodates a wide variety of multimedia devices through the use of rectangular adapters



*Stainless Steel Barbs*



*Slide Latch for Tool-less Access*




For more information, see pages A-143–A-146.

## Steel City® and Carlon® Floor Boxes

### Steel City® FPT4 Series Poke Through System

NEW!



- Convenient slide latch provides tool-less access to devices
- New hinge design allows lid to lie flat while in use to minimize obstructions above floor level
- Solid brass and aluminum for superior durability

For more information, see pages A-174–A-177.

### Carlon® Retractable Work Surface Receptacle

NEW!



- Concealed receptacle provides safe and convenient desktop power
- Provides easy access to a power outlet — simply pull up the receptacle to plug in a device
- 6-ft. cord plugs into an existing floor or wall outlet
- Receptacle remains hidden below work surface when not in use
- Hole saw included for fast, easy installation in most surfaces
- Compact design occupies minimal space both when recessed and while in use
- Rotated receptacle orientation accommodates oversized power adapters

For more information, see page A-210.

### Carlon® Recessed Pop-Up Receptacle

NEW!

- Provides a duplex GFCI outlet in a kitchen island or peninsula counter for easy access to power for small appliances
- Eliminates the potential safety hazard of power cords hanging over the edge of counters to reach side-mounted outlets
- Meets new UL® and NEC® requirements for receptacles mounted in kitchen counters

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*





For more information, see page A-209.



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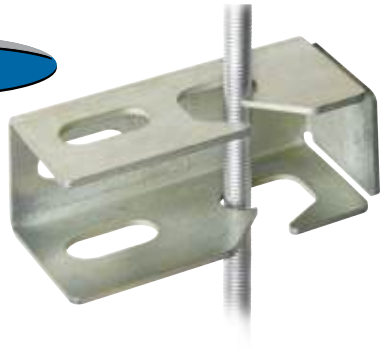
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# Kindorf® Modular Framing System

## Kindorf® Trap-Eze™ Connector

NEW!



- Easily installs above or to the side of an assembly, eliminating the need to disassemble and reassemble the existing trapeze
- Connectors can be reused upon disassembly of a trapeze
- Designed for use with the innovative Trapnut® Strut Fastener, which can take up to 43% less time than standard nuts and washers on retro-fit trapeze applications

For more information, see page B-75.

## Kindorf® Trapnut® Strut Fastener

NEW!





- No need to thread Trapnut® fastener from either end of the rod — saving valuable time
- Perfect for retrofit applications where the rod ends are not accessible
- Precision threads trap the threaded rod for a sturdy hold that can be adjusted up or down for fine-tune positioning
- Functions as a hex nut, square washer and flat washer combined

For more information, see page B-75.

## Kindorf® Fast Set Beam Clamp

- Toolless attachment to the I-beam
- Eliminates the need to tighten a set screw while holding a traditional beam clamp in place
- Threaded rod secures the clamp, eliminating an entire step in the process

NEW!






**Standard Beam Clamp**

- The clamp must be held in place while tightening the set screw
- The set screw is difficult to access within the I-beam web

For more information, see page B-44.

# NEW Products

## Kindorf® Modular Framing System and T&B® Cable Tray

### Kindorf® LOC-KING™ Cobra® One-Piece Cable and Pipe Clamp

NEW!



- Power-tool compatible for fast and efficient installation
- Pre-set torque mechanism takes the guesswork out of installation, delivering optimum torque even when using power tools, and prevents over-tightening and excess pressure on delicate cables
- Anti-vibration nut ensures permanent installation, even in high-vibration environments
- Superior design load capabilities for heavy-duty applications: 350 lbs. for ½"–2½" trade sizes; 450 lbs. for 3"–4" trade sizes

For more information, see page B-32.

### Kindorf® Solar Panel Hold-Down Clamps

NEW!



**Rugged, Corrosion-Resistant Materials**

- Body and channel nut made from high-strength extruded aluminum alloy 6061-T6 with clear anodized finish
- ¼–20 x 3" bolt, lock washer and flat washer made from Type 304 stainless steel

**Labor-Saving Features**

- Hardware is pre-assembled to clamp to save time and labor for the installer
- Self-oriented channel nut is staked to bolt to ensure fast, easy installation

**Versatile Design**

- Can be used with both 1½" Kindorf® channel and 1⅝" strut systems

For more information, see page B-24.

### Kindorf® Solar Panel Washer

NEW!



- Slotted for quicker installation — no need to disassemble clamp assembly
- Bent tab ensures washer stays in place during installation
- Can be used with both 1½" Kindorf® channel and 1⅝" strut systems
- Made from tin-plated, case-hardened steel
- Can be used on carbon steel or aluminum strut channel
- Complies with UL® 467
- Designed for use with ¼" bolt installed with minimum torque value of 100 lbs.-in.

For more information, see page B-24.

### T&B® Cable Tray Closure End Plate

NEW!



- Provides closure for any tray end
- Hardware included
- Available in aluminum, hot-dip galvanized, pre-galvanized and 316 stainless steel

For more information, see pages B-305, B-330 and B-354.



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Steel City®

# Steel City® Metallic Boxes & Covers



## In this section...



### Steel City® Metallic Boxes & Covers


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Round/Octagon Boxes and Accessories ..... A-29–A-33
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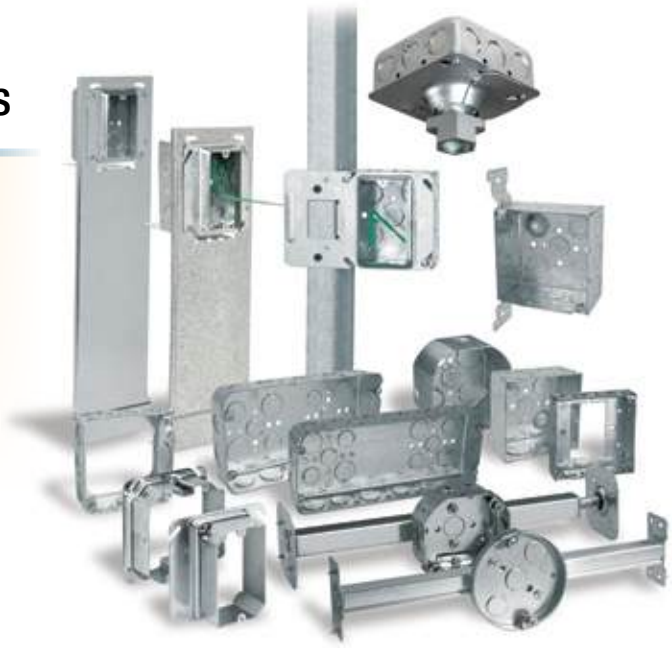
## Overview

# Steel City® Metallic Boxes and Covers

Steel City® is the industry-leading product line of metallic switch and outlet boxes used in electrical construction. Since 1904, Steel City® products have symbolized the highest quality standards in manufacturing and innovative design, with one of the most complete offerings available.

Steel City® products are known for their simple improvements, such as being the first box offering to standardize combination slotted/phillips screws on all boxes. Thomas & Betts is also recognized as a leader in design innovation, as in our new metal stud bracket.

Thomas & Betts continues to listen to contractors and responds to their ever-changing needs. Contact a T&B distributor nearest you to select the right Steel City® product for your requirements.

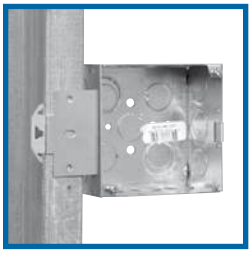


## Advantages of Steel City® Boxes and Covers

### Notched Ears on Switch Boxes

- Steel City® Switch Boxes feature a longer ear and a special notch. This provides clearance for the screws that are used to attach wall plates to GFCI or rocker-type light switches



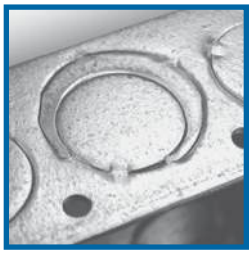


### MS Bracket Boxes

- Mounts without the use of screws
- Mounts to the open or closed side of the stud
- Works on stud depths up to 4"

### Eccentric Knockouts on Square Boxes

- Provide better contact with conduit fitting and locknut to the box, improve grounding path, stronger than ¾" knockout
- Available in all four standard-size square boxes



- Improved ¾" knockout position on square boxes
- Less labor required to install ¾" conduit to box

### Raised Ground Screw Bump in 4" Square, 4 11/16" and Utility Boxes



- Quicker surface mounting by eliminating the need to remove the portion of the screw that threads through the back of the box
- Allows for improved repositioning of grounding conductor
- Ground bump standard in 2⅛" boxes
- Ground bump optional in 1½" boxes



### Pre-Installed Screws are Packaged in Raised Position

- Eliminates extra step of having to back out the screw during cover installation

Steel City® switch and outlet boxes are protected from rust and corrosion by zinc-galvanizing. All clamps and other component parts are electrogalvanized separately, before assembly in the box, to ensure corrosion protection of every surface. Steel City® galvanized finish meets the requirements of Underwriters Laboratories, Inc. and Federal Specifications.



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# Overview

## Guide to Steel City® Knockouts, Pryouts, Ears, Brackets and Clamps

### Knockouts and Pryouts

Steel City® conduit KOs have standard trade size dimensions. KOs are uniform and true for attachment of cable or conduit connectors. Pryouts for cable entrance are slotted — a twist with a screwdriver removes them. KOs and Pryouts are precision stamped to permit easy removal, but remain sufficiently strong and sturdy when not removed.

### Outlet Box Ears

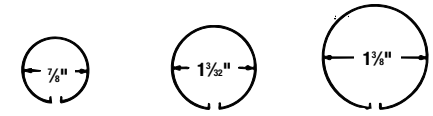
Mounting ears support the box independent of the electrical system attachments. Switch boxes have a fixed ear for old work installations.

Ears for plaster are set 1/16" forward of the box face in position for old work (modernization), except where specifically noted.

### Tapped Holes for Grounding

All Steel City® boxes have a 10-32 tapped hole in the bottom of the box for attaching separate ground wire.

**Knockouts**



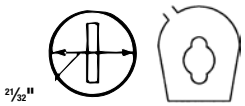

½" Conduit KO | ¾" Conduit KO | 1" Conduit KO

**Eccentric Knockouts**



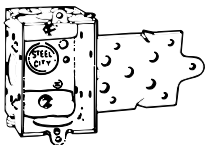
Combination ½" & ¾" Knockout

**Pryouts**

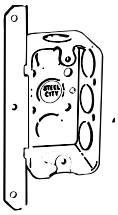



Cable Pryouts Always in Pairs

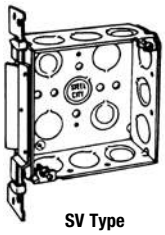
### Brackets



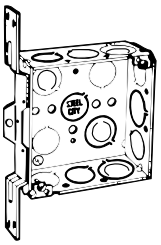
**S or B Type**
Mounts to face of stud. Used on switch, handy or square boxes. 2" long x 2⅛" wide



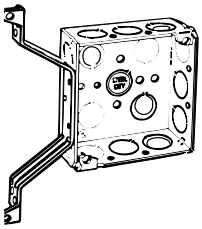
**T Type**
Positions handy box against the face and side of stud.
5½" long x ⅞" wide



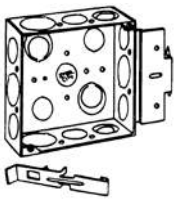
**SV Type**
Mounts box to side of stud with positioning spikes.
7⅜" long x 1" wide x ⅜" offset



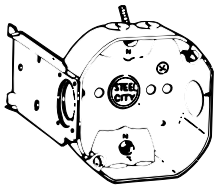
**CV Type (Outlet Boxes)**
Mounts to flat side of metal studs or wood studs.
7⅜" long x 1" wide x ⅜" offset



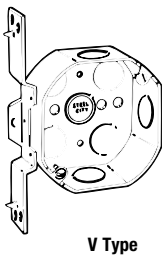
**DV Type**
Mounts box offset from stud 1½".
6¹³⁄₁₆" long x 1" wide x 1½" offset



**MS Type (For Metal Studs)**
Mounts to any depth of metal stud, open or closed side.
2½" long x 1¹¹⁄₁₆" wide x ⅜" offset;
Far side support to 4" only

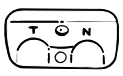


**L Type**
Used to mount octagon boxes.
2⅝" long x 3⅝" wide x ¼" offset

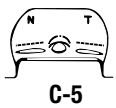


**V Type**
Mounts to flat side of stud.
7⅜" long x 1" wide x ⅜" offset

### Clamps



**C-1**



**C-5**

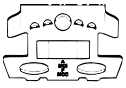


**C-8**
*(Loom only)*



**C-10**

*For Armored Cable*



**C-3**

#### For Non-Metallic Sheathed Cable and Non-Metallic Tubing (Loom)

UNDERWRITERS LABORATORIES INC. and CANADIAN STANDARDS ASSOCIATION file numbers for individual items available upon request.

#### Listing Information for Armored Cable Clamp — Type C-3

| | |
|---|---|
| Armored Cable (BX) — Steel | Sizes 14-2 through 10-3 |
| Armored Cable (BX) — Aluminum | Sizes 14-2 through 10-3 |
| MC Interlocked (MCI) — Steel | .449–.570 Diameter |
| MC Interlocked (MCI) — Aluminum | .476–.606 Diameter |
| MC Corrugated (MCC) — Aluminum | .375–.515 Diameter |

| | |
|---|---|
| MCAP™— Aluminum* | .370–.580 |
| Flex Metal Conduit — Steel | ⅛" Trade Size |
| Flex Metal Conduit — Aluminum | ⅜" Trade Size |
| C-3 Clamp Acceptable for Grounding | |

** MCAP™ is a trademark of Southwire Company*

*"Products listed in this catalog are subject to alteration or discontinuation without prior notice."*

## Overview

# NEC® Reference

Article 314 of the National Electrical Code® covers the installation and use of boxes. The article includes table references that guide the electrician in the selection of the proper box size necessary to safely accommodate electrical service requirements. The box capacity table shown (**page A-5**) is reproduced in part from the NEC® as a quick reference and guide. The NEC® should be consulted for complete details.



## Article 314 — Boxes and Fittings

### 314.16 Number of Conductors in Outlet, Device, and Junction Boxes, and Conduit Bodies.

Boxes and conduit bodies shall be of sufficient size to provide free space for all enclosed conductors. In no case shall the volume of the box, as calculated in 314.16(A), be less than the fill calculation as calculated in 314.16(B). The minimum volume for conduit bodies shall be as calculated in 314.16(C).

The provisions of this section shall not apply to terminal housings supplied with motors or generators. Informational Note: For volume requirements of motor or generator terminal housings, see Article 430.12. Boxes and conduit bodies enclosing conductors #4 AWG or larger shall also comply with the provisions of 314.28.

### (A) Box Volume Calculations.

The volume of a wiring enclosure (box) shall be the total volume of the assembled sections and, where used, the space provided by plaster rings, domed covers, extension rings and so forth, that are marked with their volume or are made from boxes the dimensions of which are listed in Table 314.16(A).

**(1) Standard Boxes.** The volumes of standard boxes that are not marked with their volume shall be as given in Table 314.16(A).

**(2) Other Boxes.** Boxes 1650 $cm^3$ (100 $in.^3$) or less, other than those described in Table 314.16(A), and nonmetallic boxes shall be durably and legibly marked by the manufacturer with their volume. Boxes described in Table 314.16(A) that have a volume larger than is designated in the table shall be permitted to have their volume marked as required by this section.

### (B) Box Fill Calculations.

The volumes in paragraphs 314.16(B)(l) through (B)(5), as applicable, shall be added together. No allowance shall be required for small fittings such as locknuts and bushings.

**(1) Conductor Fill.** Each conductor that originates outside the box and terminates or is spliced within the box shall be counted once, and each conductor that passes through the box without splice or termination shall be counted once. Each loop or coil of unbroken conductor not less than twice the minimum length required for free conductors in 300.14 shall be counted twice. The conductor fill shall be calculated using Table 314.16(B). A conductor, no part of which leaves the box, shall not be counted.

***Exception:*** *An equipment grounding conductor or conductors not over four fixture wires smaller than #14 AWG, or both, shall be permitted to be omitted from the calculations where they enter a box from a domed luminaire or similar canopy and terminate within that box.*

**(2) Clamp Fill.** Where one or more internal cable clamps, whether factory or field supplied, are present in the box, a single volume allowance in accordance with Table 314.16(B) shall be made based on the largest conductor present in the box. No allowance shall be required for a cable connector with its clamping mechanism outside the box.

**(3) Support Fittings Fill.** Where one or more luminaire studs or hickeys are present in the box, a single volume allowance in accordance with Table 314.16(B) shall be made for each type of fitting based on the largest conductor present in the box.

**(4) Device or Equipment Fill.** For each yoke or strap containing one or more devices or equipment, a double volume allowance in accordance with Table 314.16(B) shall be made for each yoke or strap based on the largest conductor connected to a device(s) or equipment supported by that yoke or strap. A device or utilization equipment wider than a single 50mm (2 in.) device box as described in Table 314.16(A) shall have double volume allowances provided for each gang required for mounting.

**(5) Equipment Grounding Conductor Fill.** Where one or more equipment grounding conductors or equipment bonding jumpers enter a box, a single volume allowance in accordance with Table 314.16(B) shall be made based on the largest equipment grounding conductor or equipment bonding jumper present in the box. Where an additional set of equipment grounding conductors, as permitted by 250.146(D), is present in the box, an additional volume allowance shall be made based on the largest equipment grounding conductor in the additional set.

### (C) Conduit Bodies.

**(1) General.** Conduit bodies enclosing #6 AWG conductors or smaller, other than short-radius conduit bodies as described in 314.16(C)(2), shall have a cross-sectional area not less than twice the cross-sectional area ofthe largest conduit or tubing to which they can be attached. The maximum number of conductors permitted shall be the maximum number permitted by Table 1 of Chapter 9 for the conduit or tubing to which it is attached.

**(2) With Splices, Taps or Devices.** Only those conduit bodies that are durably and legibly marked by the manufacturer with their volume shall be permitted to contain splices, taps or devices. The maximum number of conductors shall be calculated in accordance with 314.16(B). Conduit bodies shall be supported in a rigid and secure manner.

**(3) Short-Radius Conduit Bodies.** Conduit bodies such as capped elbows and service-entrance elbows that enclose conductors #6 AWG or smaller, and are only intended to enable the installation of the raceway and the contained conductors, shall not contain splices, taps or devices and shall be of sufficient size to provide free space for all conductors enclosed in the conduit body.



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## Article 314 — Boxes and Fittings *(continued)*

**Table 314.16(A)**
**Metal Boxes**

| MM | BOX TRADE SIZE (IN.) | | MINIMUM VOLUME CM3 | MINIMUM VOLUME IN.3 | MAXIMUM NUMBER OF CONDUCTORS* 18 | 16 | 14 | 12 | 10 | 8 | 6 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 x 32 | (4 x 1¼) | Round/Octagonal | 205 | 12.5 | 8 | 7 | 6 | 5 | 5 | 5 | 2 |
| 100 x 38 | (4 x 1½) | Round/Octagonal | 254 | 15.5 | 10 | 8 | 7 | 6 | 6 | 5 | 3 |
| 100 x 54 | (4 x 2⅛) | Round/Octagonal | 353 | 21.5 | 14 | 12 | 10 | 9 | 8 | 7 | 4 |
| 100 x 32 | (4 x 1¼) | Square | 295 | 18.0 | 12 | 10 | 9 | 8 | 7 | 6 | 3 |
| 100 x 38 | (4 x 1½) | Square | 344 | 21.0 | 14 | 12 | 10 | 9 | 8 | 7 | 4 |
| 100 x 54 | (4 x 2⅛) | Square | 497 | 30.3 | 20 | 17 | 15 | 13 | 12 | 10 | 6 |
| 120 x 32 | (4L x 1¼) | Square | 418 | 25.5 | 17 | 14 | 12 | 11 | 10 | 8 | 5 |
| 120 x 38 | (4L x 1½) | Square | 484 | 29.5 | 19 | 16 | 14 | 13 | 11 | 9 | 5 |
| 120 x 54 | (4L x 2⅛) | Square | 689 | 42.0 | 28 | 24 | 21 | 18 | 16 | 14 | 8 |
| 75 x 50 x 38 | (3 x 2 x 1½) | Device | 123 | 7.5 | 5 | 4 | 3 | 3 | 3 | 2 | 1 |
| 75 x 50 x 50 | (3 x 2 x 2) | Device | 164 | 10.0 | 6 | 5 | 5 | 4 | 4 | 3 | 2 |
| 75 x 50 x 57 | (3 x 2 x 2¼) | Device | 172 | 10.5 | 7 | 6 | 5 | 4 | 4 | 3 | 2 |
| 75 x 50 x 65 | (3 x 2 x 2½) | Device | 205 | 12.5 | 8 | 7 | 6 | 5 | 5 | 4 | 2 |
| 75 x 50 x 70 | (3 x 2 x 2¾) | Device | 230 | 14.0 | 9 | 8 | 7 | 6 | 5 | 4 | 2 |
| 75 x 50 x 90 | (3 x 2 x 3½) | Device | 295 | 18.0 | 12 | 10 | 9 | 8 | 7 | 6 | 3 |
| 100 x 54 x 38 | (4 x 2⅛ x 1½) | Device | 169 | 10.3 | 6 | 5 | 5 | 4 | 4 | 3 | 2 |
| 100 x 54 x 48 | (4 x 2⅛ x 1⅞) | Device | 213 | 13.0 | 8 | 7 | 6 | 5 | 5 | 4 | 2 |
| 100 x 54 x 54 | (4 x 2⅛ x 2⅛) | Device | 238 | 14.5 | 9 | 8 | 7 | 6 | 5 | 4 | 2 |
| 95 x 50 x 65 | (3¾ x 2 x 2½) | Masonry Box/Gang | 230 | 14.0 | 9 | 8 | 7 | 6 | 5 | 4 | 2 |
| 95 x 50 x 90 | (3¾ x 2 x 3½) | Masonry Box/Gang | 344 | 21.0 | 14 | 12 | 10 | 9 | 8 | 7 | 4 |
| Min. 44.5 depth | FS – Single-Cover/Gang (1¾) | | 221 | 13.5 | 9 | 7 | 6 | 6 | 5 | 4 | 2 |
| Min. 60.3 depth | FD – Single-Cover/Gang (2⅜) | | 295 | 18.0 | 12 | 10 | 9 | 8 | 7 | 6 | 3 |
| Min. 44.5 depth | FS – Multiple-Cover/Gang (1¾) | | 295 | 18.0 | 12 | 10 | 9 | 8 | 7 | 6 | 3 |
| Min. 60.3 depth | FD – Multiple-Cover/Gang (2⅜) | | 395 | 24.0 | 16 | 13 | 12 | 10 | 9 | 8 | 4 |

*Where no volume allowances are required by 314.16(B)(2) through 314.16(B)(5).
Underwriters Laboratories Inc. File Number: E2969 (U.L. 514A)
Canadian Standards Association File Number: LR 12798
Federal Manufacture Number: 56501 (Cage Code)
Products designed to meet Federal Specification Number: W-J-800
Verification of file numbers and compliance with federal specifications for individual items available upon request.
Box and cover material and plating specification; .062" minimum thickness, hot rolled, pre-galvanized steel, minimum spangle.
ASTM G-60-U, AISI C-1008
Bracket material: All brackets except MS style; 16 gauge (.060") hot rolled, pre-galvanized steel AISI C-1008, G-90-U. MS style bracket; 20 gauge (.036") cold rolled spring steel AISI C-1055, heat treated to R. 35 zinc plated .0005 thick.

**Table 314.16(B)**
**Volume Allowance Required per Conductor**

| SIZE OF CONDUCTOR (AWG) | FREE SPACE WITHIN BOX FOR EACH CONDUCTOR CM³ | IN.³ |
|---|---|---|
| No. 18 | 24.6 | 1.50 |
| No. 16 | 28.7 | 1.75 |
| No. 14 | 32.8 | 2.00 |
| No. 12 | 36.9 | 2.25 |
| No. 10 | 41.0 | 2.50 |
| No. 8 | 49.2 | 3.00 |
| No. 6 | 81.9 | 5.00 |

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Underwriters Laboratories Inc. File Number: E2969 (U.L. 514A)
Canadian Standards Association File Number: LR 12798
Federal Manufacture Number: 56501
Products designed to meet Federal Specification Number: A-A5924 (formerly W-J-800).
Verification of file numbers and compliance with federal specifications for individual items available upon request.
Box and cover material and plating specification; .062" minimum thickness, hot-rolled, pre-galvanized steel, minimum spangle.
ASTM G-60-U, AISI C-1008
Bracket material: All brackets except MS style; 16 gauge (.060") hot rolled, pre-galvanized steel AISI C-1008, G-60-U. MS Style bracket; 20 gauge (.036") cold rolled spring steel AISI C-1055, heat treated to R. 35 zinc plated .0005 thick.

## Metallic Boxes — Fire Resistance Rating

### Wall Penetrations

Listed single- and double-gang metallic outlet and switch boxes and octagon ceiling boxes with metallic or non-metallic cover plates may be used in bearing and non-bearing wood stud and steel stud walls with ratings not exceeding 2 hours. These walls shall have gypsum wallboard facings similar to those shown in Design Nos. U301, U411, and U425. 4 in. square boxes may be used in 2 hr. fire rated ceilings.

The surface area of individual metallic outlet or switch boxes shall not exceed 16 sq. in. The aggregate surface area of the boxes shall not exceed 100 sq. inches per 100 sq. ft. of wall. Boxes located on opposite sides of walls or partitions shall be separated by a horizontal distance of 24 inches.

The metallic outlet or switch boxes shall be securely fastened to the studs and the opening in the wallboard facing shall be cut so that the clearance between the box and the wallboard does not exceed ⅛ in.

## Pre-Fab Components and Assemblies

# Faster Installation for Increased Profit Margin!



## Pre-Assemblies

Paying to assemble outlet boxes, grounding pigtails, device covers and mounting brackets on the job site can quickly become an expensive proposition. Instead, choose Steel City® Pre-Assemblies and realize significant labor savings. This UL Listed product line includes over 75 combinations of popular boxes, brackets and covers that speed installation because the time-consuming assembly work is already done for you.

**Steel City® Pre-Assemblies include:**

- Outlet box with pre-installed grounding pigtail
- Your choice of cover options, including single- and double-device covers, raised ½", ⅝" or ¾"
- Your choice of bracket options to allow mounting to steel and wood stud or floor track, including Steel City® Box Support Covers, which combine a bracket and cover in one component
- All UL Listed components

## Box with Pre-Installed 10½" Pigtail

- Popular 4" square boxes and switch boxes
- Pre-installed 10½" insulated grounding pigtails
- Save on labor costs by eliminating multiple installation steps



| Pre-Assembled Installation | VS. | Standard Installation |
|---|---|---|
| 1. Install box in desired location — DONE! | | 1. Purchase pre-stripped pigtail<br>2. Install pigtail and ground screw in box<br>3. Install box in desired location |

| CAT. NO. | BOX TYPE INCLUDED | KNOCKOUTS | PRE-INSTALLED PIGTAIL | STD. CTN. |
|---|---|---|---|---|
| **521511234EWP** | 52151234EW — 4"-sq. x 1½" D Welded Box | Eccentric | 10½" | 50 |
| **521511234P** | 521511234 — 4"-sq. x 1½" D Drawn Box | ½" & ¾" | 10½" | 50 |
| **521711234EP** | 521711234E — 4"-sq. x 2⅛" D Welded Box | ½" & ¾" Eccentric | 10½" | 50 |
| **52151XP** | 52151X — 4"-sq. x 1½" D Welded Box | ½" & ¾" Eccentric | 10½" | 50 |
| **52151CVNP** | 52151CVN — 4"-sq. x 1½" D Welded Box | ½" & ¾" Eccentric | 10½" | 25 |
| **LXWOWP** | LXWOW-25 — 3"H x 2"W x 2½" D Gangable Switch Box | ½" | 10½" | 25 |
| **LXVP** | LXV-25 — 3"H x 2"W x 2½" D Gangable Switch Box | ½" | 10½" | 25 |
| **CXWOWP** | CXWOW — 3"H x 2"W x 3½" D Gangable Switch Box | ½" & ¾" | 10½" | 25 |
| **CXWVP** | CXWV — 3"H x 2"W x 3½" D Gangable Switch Box | ½" & ¾" | 10½" | 25 |
| **CXP** | CX — 3"H x 2"W x 3½" D Gangable Switch Box | ½" & ¾" | 10½" | 25 |



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## Pre-Fab Components and Assemblies

### Box with Pre-Installed 10½" Pigtail and Box Support Cover

- 52CM and 52CMD box support covers
- 10½" insulated pigtail
- One- and two-device covers
- Raised ½", ⅝" and ¾"
- 1½" and 2⅛" box depths



*52171-CM14-5/8*



| CAT. NO. | BOX TYPE INCLUDED | BOX DEPTH (IN.) | PIGTAIL TYPE INCLUDED | BOX SUPPORT COVER INCLUDED | RAISED (IN.) | NO. OF DEVICES | STD. CTN. |
|---|---|---|---|---|---|---|---|
| **52151-CM13** | 521511234EW | 1½ | GSC12 | 52CM13 | ½ | 1 | 25 |
| **52151-CM14-5/8** | 521511234EW | 1½ | GSC12 | 52CM14-5/8 | ⅝ | 1 | 25 |
| **52151-CM14** | 521511234EW | 1½ | GSC12 | 52CM14 | ¾ | 1 | 25 |
| **52151-CMD17** | 521511234EW | 1½ | GSC12 | 52CMD17 | ½ | 2 | 25 |
| **52151-CMD18-5/8** | 521511234EW | 1½ | GSC12 | 52CMD18-5/8 | ⅝ | 2 | 25 |
| **52151-CMD18** | 521511234EW | 1½ | GSC12 | 52CMD18 | ¾ | 2 | 25 |
| **52171-CM13** | 521711234E | 2⅛ | GSC12 | 52CM13 | ½ | 1 | 25 |
| **52171-CM14-5/8** | 521711234E | 2⅛ | GSC12 | 52CM14-5/8 | ⅝ | 1 | 25 |
| **52171-CM14** | 521711234E | 2⅛ | GSC12 | 52CM14 | ¾ | 1 | 25 |
| **52171-CMD17** | 521711234E | 2⅛ | GSC12 | 52CMD17 | ½ | 2 | 25 |
| **52171-CMD18-5/8** | 521711234E | 2⅛ | GSC12 | 52CMD18-5/8 | ⅝ | 2 | 25 |
| **52171-CMD18** | 521711234E | 2⅛ | GSC12 | 52CMD18 | ¾ | 2 | 25 |

### Box with Pre-Installed 10½" Pigtail, Raised Cover and Box-to-Stud Bracket

- SSF-SH2346 bracket
- 10½" insulated pigtail
- One- and two-device covers
- Raised ½", ⅝" and ¾"
- 1½" and 2⅛" box depths



*151-SH2346-13*

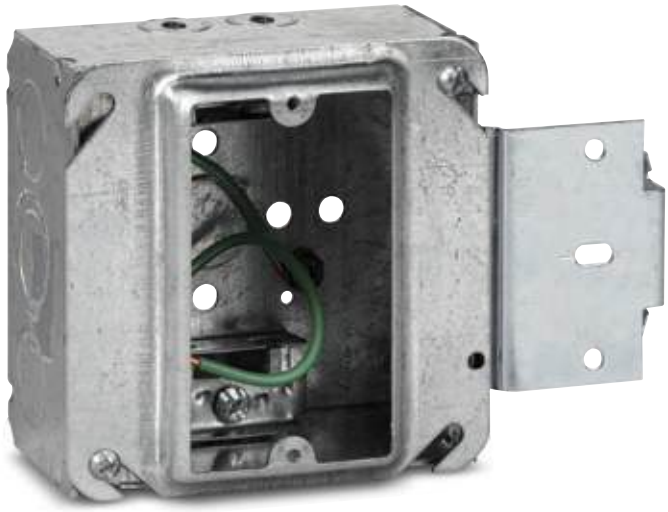


| CAT. NO. | BOX TYPE INCLUDED | BOX DEPTH (IN.) | PIGTAIL TYPE INCLUDED | BRACKET TYPE INCLUDED | COVER TYPE INCLUDED | RAISED (IN.) | NO. OF DEVICES | STD. CTN. |
|---|---|---|---|---|---|---|---|---|
| **151-SH2346-13** | 521511234EW | 1½ | GSC12 | SSF-SH2346 | 52-C-13 | ½ | 1 | 10 |
| **151-SH2346-1458** | 521511234EW | 1½ | GSC12 | SSF-SH2346 | 52-C-14-5/8 | ⅝ | 1 | 10 |
| **151-SH2346-14** | 521511234EW | 1½ | GSC12 | SSF-SH2346 | 52-C-14 | ¾ | 1 | 10 |
| **151-SH2346-17** | 521511234EW | 1½ | GSC12 | SSF-SH2346 | 52-C-17-25 | ½ | 2 | 10 |
| **151-SH2346-1858** | 521511234EW | 1½ | GSC12 | SSF-SH2346 | 52-C-18-5/8-25 | ⅝ | 2 | 10 |
| **151-SH2346-18** | 521511234EW | 1½ | GSC12 | SSF-SH2346 | 52-C-18 | ¾ | 2 | 10 |
| **171-SH2346-13** | 521711234E | 2⅛ | GSC12 | SSF-SH2346 | 52-C-13 | ½ | 1 | 10 |
| **171-SH2346-1458** | 521711234E | 2⅛ | GSC12 | SSF-SH2346 | 52-C-14-5/8 | ⅝ | 1 | 10 |
| **171-SH2346-14** | 521711234E | 2⅛ | GSC12 | SSF-SH2346 | 52-C-14 | ¾ | 1 | 10 |
| **171-SH2346-17** | 521711234E | 2⅛ | GSC12 | SSF-SH2346 | 52-C-17-25 | ½ | 2 | 10 |
| **171-SH2346-1858** | 521711234E | 2⅛ | GSC12 | SSF-SH2346 | 52-C-18-5/8-25 | ⅝ | 2 | 10 |
| **171-SH2346-18** | 521711234E | 2⅛ | GSC12 | SSF-SH2346 | 52-C-18 | ¾ | 2 | 10 |

## Pre-Fab Components and Assemblies

# MS Series Pre-Assemblies

- 4" square and 4 11/16" square boxes
- 1½" deep or 2⅛" deep
- Pre-installed 10½" insulated grounding pigtail
- Available with conduit KOs or clamps for flexible/ armored/MC cable
- Save on labor costs by eliminating multiple installation steps



### Pre-Assembled Installation *VS.* Standard Installation

| Pre-Assembled Installation | Standard Installation |
|---|---|
| 1. Snap box — DONE! | 1. Purchase pre-stripped pigtail<br>2. Install pigtail and ground screw in box<br>3. Mount box support cover to box<br>4. Mount assembly to stud |

| CAT. NO. | BOX TYPE INCLUDED | BOX DEPTH (IN.) | PIGTAIL INCLUDED (IN.) | BOX COVER INCLUDED | RAISED (IN.) | NO. OF DEVICES | STD. CTN. |
|---|---|---|---|---|---|---|---|
| **151-MS-13** | 52151-MS-1/2 3/4 | 1½ | 10½ | 52-C-13 | ½ | 1 | 25 |
| **151-MS-14** | 52151-MS-1/2 3/4 | 1½ | 10½ | 52-C-14 | ¾ | 1 | 25 |
| **151-MS-1458** | 52151-MS-1/2 3/4 | 1½ | 10½ | 52-C-14-5/8 | ⅝ | 1 | 25 |
| **171MS13** | 52171-MS-1/2 3/4 | 2⅛ | 10½ | 52-C-13 | ½ | 1 | 25 |
| **171-MS-14** | 52171-MS-1/2 3/4 | 2⅛ | 10½ | 52-C-14 | ¾ | 1 | 25 |
| **171-MS-1458** | 52171-MS-1/2 3/4 | 2⅛ | 10½ | 52-C-14-5/8 | ⅝ | 1 | 25 |
| **171MS18** | 52171-MS-1/2 3/4 | 2⅛ | 10½ | 52-C-18 | ¾ | 2 | 25 |
| **171-MS-18 5/8** | 52171-MS-1/2 3/4 | 2⅛ | 10½ | 52-C-18-5/8-25 | ⅝ | 2 | 25 |
| **171MSX13** | 52171-MSX | 2⅛ | 10½ | 52-C-13 | ½ | 1 | 25 |
| **171-MSX-14** | 52171-MSX | 2⅛ | 10½ | 52-C-14 | ¾ | 1 | 25 |
| **171-MSX-1458** | 52171-MSX | 2⅛ | 10½ | 52-C-14-5/8 | ⅝ | 1 | 25 |
| **171MSX18** | 52171-MSX | 2⅛ | 10½ | 52-C-18 | ¾ | 2 | 25 |
| **171-MSX-18 5/8** | 52171-MSX | 2⅛ | 10½ | 52-C-18-5/8-25 | ⅝ | 2 | 25 |
| **72171MS14** | 72171-MS-1/2 3/4 | 2⅛ | 10½ | 72-C-14 | ¾ | 1 | 25 |
| **72171-MS-1458** | 72171-MS-1/2 3/4 | 2⅛ | 10½ | 72-C-14-5/8 | ⅝ | 1 | 25 |
| **72171MS18** | 72171-MS-1/2 3/4 | 2⅛ | 10½ | 72-C-18 | ¾ | 2 | 25 |
| **72171-MS-18 5/8** | 72171-MS-1/2 3/4 | 2⅛ | 10½ | 72-C-18-5/8 | ⅝ | 2 | 25 |
| **72171MSX14** | 72171-MS-1/2 3/4 | 2⅛ | 10½ | 72-C-14 | ¾ | 1 | 25 |
| **72171-MSX-1458** | 72171-MSX | 2⅛ | 10½ | 72-C-14-5/8 | ⅝ | 1 | 25 |
| **72171MSX18** | 72171-MS-1/2 3/4 | 2⅛ | 10½ | 72-C-18 | ¾ | 2 | 25 |
| **72171-MSX-1858** | 72171-MS-1/2 3/4 | 2⅛ | 10½ | 72-C-18-5/8 | ⅝ | 2 | 25 |



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## Pre-Fab Components and Assemblies

# Box with Pre-Installed 10½" Pigtail, Raised Cover and Vertical Mounting Bracket

- 12" (SSF-SV12) or 18" (SSF-SV18) vertical mounting bracket
- 10½" insulated pigtail
- One- and two-device covers
- Raised ½", ⅝" and ¾"
- 1½" and 2⅛" box depths



*151-SV18-13* *151-SV12-13*

**Pre-Assembled Installation** ***VS.*** **Standard Installation**

| Pre-Assembled Installation | Standard Installation |
|---|---|
| 1. Mount assembly to floor stud — DONE! | 1. Purchase pre-stripped pigtail<br>2. Install pigtail and ground screw in box<br>3. Insert box into vertical bracket<br>4. Insert device cover to vertical bracket<br>5. Mount assembly to floor stud |

| CAT. NO. | BOX TYPE INCLUDED | BOX DEPTH (IN.) | PIGTAIL TYPE INCLUDED | BRACKET TYPE INCLUDED | COVER TYPE INCLUDED | RAISED (IN.) | NO. OF DEVICES | STD. CTN. |
|---|---|---|---|---|---|---|---|---|
| **151-SV12-13** | 521511234EW | 1½ | GSC12 | SSF-SV12 | 52-C-13 | ½ | 1 | 10 |
| **151-SV12-1458** | 521511234EW | 1½ | GSC12 | SSF-SV12 | 52-C-14-5/8 | ⅝ | 1 | 10 |
| **151-SV12-14** | 521511234EW | 1½ | GSC12 | SSF-SV12 | 52-C-14 | ¾ | 1 | 10 |
| **151-SV12-17** | 521511234EW | 1½ | GSC12 | SSF-SV12 | 52-C-17-25 | ½ | 2 | 10 |
| **151-SV12-1858** | 521511234EW | 1½ | GSC12 | SSF-SV12 | 52-C-18-5/8-25 | ⅝ | 2 | 10 |
| **151-SV12-18** | 521511234EW | 1½ | GSC12 | SSF-SV12 | 52-C-18 | ¾ | 2 | 10 |
| **171-SV12-13** | 521711234E | 2⅛ | GSC12 | SSF-SV12 | 52-C-13 | ½ | 1 | 10 |
| **171-SV12-1458** | 521711234E | 2⅛ | GSC12 | SSF-SV12 | 52-C-14-5/8 | ⅝ | 1 | 10 |
| **171-SV12-14** | 521711234E | 2⅛ | GSC12 | SSF-SV12 | 52-C-14 | ¾ | 1 | 10 |
| **171-SV12-17** | 521711234E | 2⅛ | GSC12 | SSF-SV12 | 52-C-17-25 | ½ | 2 | 10 |
| **171-SV12-1858** | 521711234E | 2⅛ | GSC12 | SSF-SV12 | 52-C-18-5/8-25 | ⅝ | 2 | 10 |
| **171-SV12-18** | 521711234E | 2⅛ | GSC12 | SSF-SV12 | 52-C-18 | ¾ | 2 | 10 |
| **151-SV18-13** | 521511234EW | 1½ | GSC12 | SSF-SV18 | 52-C-13 | ½ | 1 | 10 |
| **151-SV18-1458** | 521511234EW | 1½ | GSC12 | SSF-SV18 | 52-C-14-5/8 | ⅝ | 1 | 10 |
| **151-SV18-14** | 521511234EW | 1½ | GSC12 | SSF-SV18 | 52-C-14 | ¾ | 1 | 10 |
| **151-SV18-17** | 521511234EW | 1½ | GSC12 | SSF-SV18 | 52-C-17-25 | ½ | 2 | 10 |
| **151-SV18-1858** | 521511234EW | 1½ | GSC12 | SSF-SV18 | 52-C-18-5/8-25 | ⅝ | 2 | 10 |
| **151-SV18-18** | 521511234EW | 1½ | GSC12 | SSF-SV18 | 52-C-18 | ¾ | 2 | 10 |
| **171-SV18-13** | 521711234E | 2⅛ | GSC12 | SSF-SV18 | 52-C-13 | ½ | 1 | 10 |
| **171-SV18-1458** | 521711234E | 2⅛ | GSC12 | SSF-SV18 | 52-C-14-5/8 | ⅝ | 1 | 10 |
| **171-SV18-14** | 521711234E | 2⅛ | GSC12 | SSF-SV18 | 52-C-14 | ¾ | 1 | 10 |
| **171-SV18-17** | 521711234E | 2⅛ | GSC12 | SSF-SV18 | 52-C-17-25 | ½ | 2 | 10 |
| **171-SV18-1858** | 521711234E | 2⅛ | GSC12 | SSF-SV18 | 52-C-18-5/8-25 | ⅝ | 2 | 10 |
| **171-SV18-18** | 521711234E | 2⅛ | GSC12 | SSF-SV18 | 52-C-18 | ¾ | 2 | 10 |

## Pre-Fab Components and Assemblies

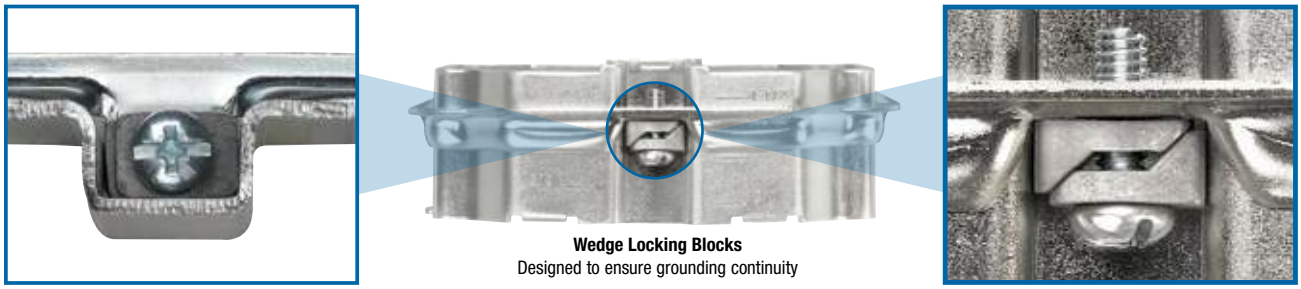
# UL® Listed Adjustable Mud Ring now available in both single- and two-gang.

NEW!

## Adjustable Mud Rings

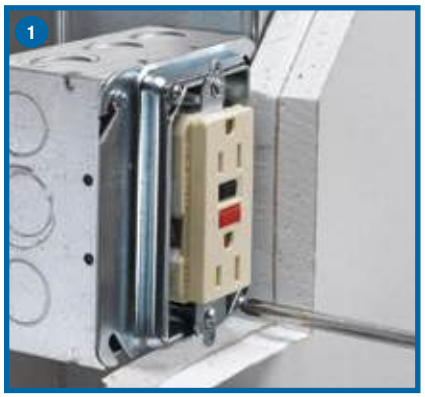
Mud Rings feature an inner ring that adjusts from ½" to 1½" in depth to accommodate various drywall thicknesses. Marked with a measured rule and equipped with two adjustment screws, the inner ring can be set to the anticipated depth prior to installation and then easily adjusted after drywall installation to accommodate any variation in depth (½" to 1½").



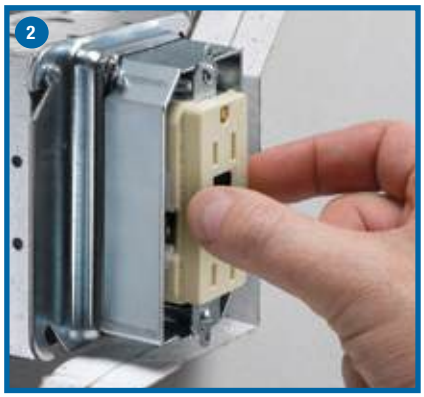


**Wedge Locking Blocks**
Designed to ensure grounding continuity

## Adjustable Mud Ring Installation/Adjustment Steps:




**Loosen…**
The two adjustment screws located on opposing corners of the mud ring.




**Adjust…**
Inner ring to be flush with wall surface.




**Re-tighten…**
Adjustment screws.

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| 52-C-ADJ | Single-Gang Adjustable Mud Ring, ½" to 1½" | 25 |
| 52-C-ADJ2 | Two-Gang Adjustable Mud Ring, ½" to 1½" | 20 |



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## Pre-Fab Components and Assemblies

# Three Products in One!

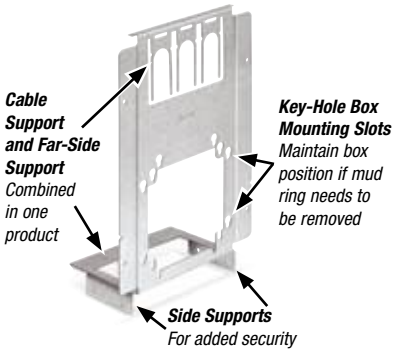
## Pre-Fab Box Bracket with Far-Side and Cable Support

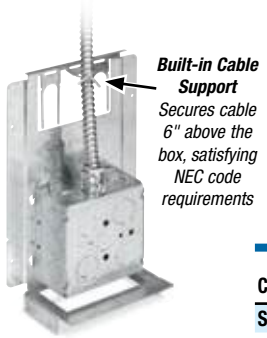
The savings can add up, particularly on a large job, when a box bracket, far-side support and cable support are combined in one product to reduce your labor and inventory costs. It is designed for maximum flexibility with flanges for either left or right stud mount, and compatibility with either 4" and 4 11/16" boxes.

- Box bracket, far-side support and cable support combined in one product to reduce your labor and inventory costs
- Built-in cable support secures cable 6" above the box, satisfying NEC® code requirements
- Flexible design accommodates both 4" and 4 11/16" boxes
- Key-hole box mounting slots maintain box position if mud ring needs to be removed
- Provides clear access to knock-outs once the box is installed for installation of fittings
- Mounts to either side of the stud



*Can be mounted either left or right of the stud*




*Back view of bracket with box, fitting and cable installed*



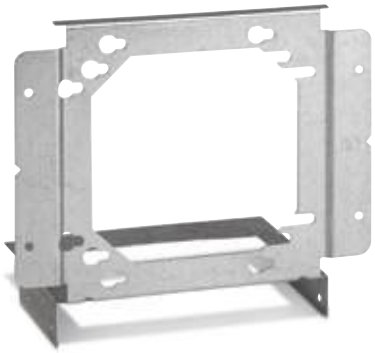

*Bottom view of bracket with box installed*

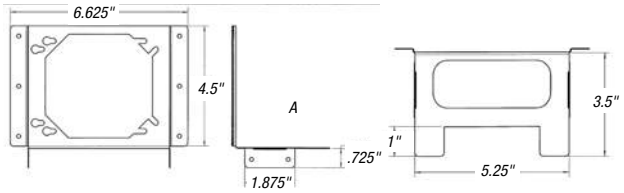
| CAT. NO. | DESCRIPTION | STD. PKG. QTY. |
|---|---|---|
| SSF-SH2346-CS | Pre-Fab Box Bracket with Far-Side and Cable Support | 50 |

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## Mounting Bracket

- Attaches 4" and 4 11/16" electrical boxes to metal stud
- Support leg can be attached to stud to eliminate movement of box in wall
- Attaches to metal or wood stud using self-tapping screws and screw gun or nails
- One part mounts boxes for 1½", 2½", 3½", 4" and 6" stud which means less inventory






| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| SSF-SH2346 | 4" & 4 11/16" outlet boxes to 2½", 3½", 4" & 6" metal studs | 100 |

# Pre-Fab Components and Assemblies

## Box Mounting Brackets for Between Studs

- Supports electrical boxes, plaster rings or low-voltage devices from one bracket
- Accommodates 4" or 4 11/16" boxes
- Bendable leg serves as a bracket stabilizer
- SB brackets allow box mounting in all four 90° orientations

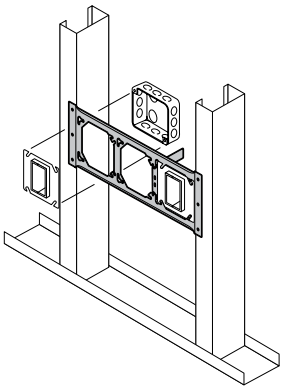




*Fig. 1*



*Fig. 2*

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SB16 | 1 | Box mounting bracket for between studs, 16" stud spacing | 25 |
| SSF-SB24 | 2 | Box mounting bracket for between studs, 24" stud spacing | 25 |

## Screw-Gun Box Bracket



- Self-tapping screws are aligned with the dimples so that the box is straight
- Enables mounting of multiple boxes
- Depth set for 1½"- or 2⅛"-deep electrical box
- Installs easily with a screw gun
- SGA brackets have adjustable tabs for 1½"- or 2⅛"-deep boxes
- SGA brackets adjustable for non-standard stud spacing

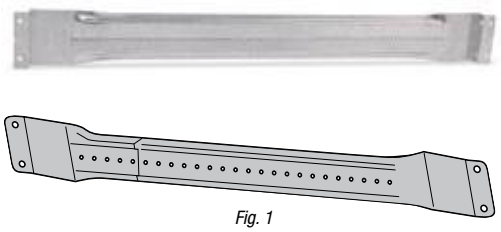


*Fig. 1*

| CAT. NO. | FIG. NO. | DESCRIPTION | STUD SPACING | BOX DEPTH | STD. CTN. |
|---|---|---|---|---|---|
| SSF-SG16A | 1 | Adjustable box bracket | 11"–18" | 1½" or 2⅛" | 50 |
| SSF-SG24A | 1 | Adjustable box bracket | 17"–26" | 1½" or 2⅛" | 50 |

## Extension-Plate Bracket



- Improved bracket with bendable stabilizer leg for use on 2½" and 3½" metal studs
- Mounts outlet boxes 12" or 18" offset from either a metal stud track or a stud
- When mounted, drywall ring is brought to within ⅛" of drywall every time and will not bulge or break out drywall
- Mounts 4" or 4 11/16" outlet boxes, 1½" or 2⅛" deep
- SV18 provides compliance with Americans with Disabilities Act (ADA) requirements



*Fig. 1*

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SV12 | 1 | Extension plate bracket, 12" height | 50 |
| SSF-SV18 | 1 | Extension plate bracket, 18" height | 50 |



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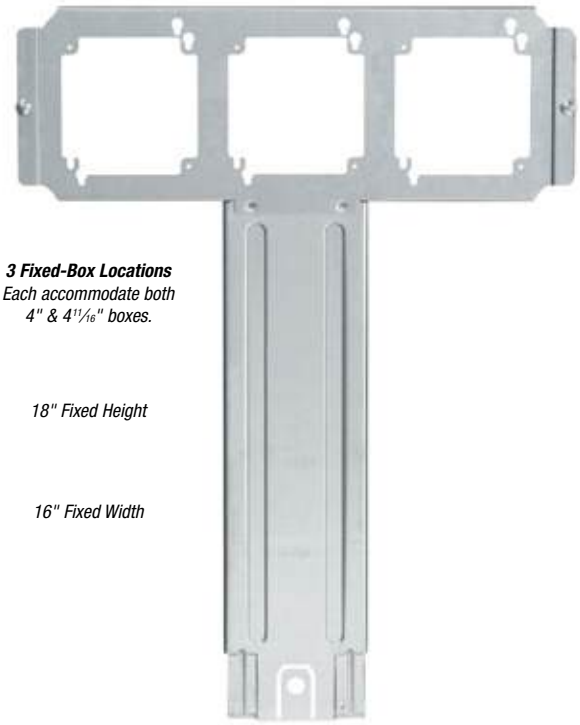
www.tnb.com

NEW!

## Consistent Box Locations and Box Height…Every Time!

# Pre-Fab T Bracket

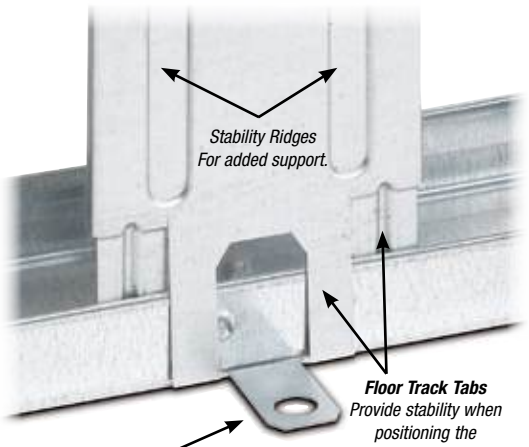
Consistency results in efficiency and labor savings on the job. With three fixed-box locations and a fixed height of 18", the new Steel City® Pre-Fab T Bracket provides a consistent installation every time. For added efficiency, the bracket includes integral mounting screws that help reduce installation time. A handy locator tab at the base of the bracket saves you the time of looking for installed boxes that have been hidden by wall coverings. The base also features unique floor track tabs. The inner tab slides in front of the floor track and the two outer tabs slide behind the floor track to provide stability when positioning the bracket.



***3 Fixed-Box Locations***
*Each accommodate both 4" & 4 1/16" boxes.*

*18" Fixed Height*

*16" Fixed Width*

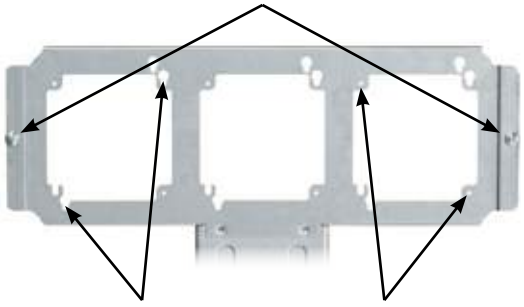


*Stability Ridges*
*For added support.*

***Floor Track Tabs***
*Provide stability when positioning the bracket.*

***Locator Tab***
*Helps locate installed boxes hidden by wall coverings.*

***Integral Mounting Screws***
*Reduce installation time.*



***Key Hole Slots***
*Maintain box position if mud ring is removed.*

***Mud Ring Mounting Screw Holes***
*For low-voltage applications where no box is required.*

**Pre-Fab Box Bracket with Far-Side and Cable Support**

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **H16V18S** | Pre-Fab T Bracket | 10 |

## Easily Pre-Assembled Off Site for Faster Installation On Site!

### Pre-Fabricated Components

Rather than assembling box mounting brackets and device covers on site, keep an eye on profit and use Steel City® Pre-Fab Components to set up jobs off site for a quick and easy installation on site. They accommodate a wide variety of Steel City covers and they're readily available for fast-track projects.

- Ideal for use in hotels, casinos, hospitals, large office buildings and any other commercial or institutional application where rough-in products can be pre-fabricated to match floor plans for quicker on-site installation
- Items readily available for fast-track projects — no special lead time required
- All products are UL approved and meet applicable building codes

# SB016 and SB024 Stud-to-Stud Horizontal Mounting Brackets

- Constructed of 24-gauge steel
- Pre-measured on center for 16" (SB016) or 24" (SB024) stud spacing
- SB016 accepts three 4" square or two 4 11/16" boxes (deep or shallow)
- SB024 accepts five 4" square or four 4 11/16" boxes (deep or shallow)
- Can be mounted at any height to meet individual project requirements
- Versatile, open design enables mounting of box in any location across horizontal plane between studs
- Device cover (mud ring) mounts to front of bracket to set box in desired location
- Stamped rule on bracket with ¼", ½" and 1" markings enables fast box setting



*SB016*



*SB024*



*SB016 mounted to 16" studs with one 4" square box installed.*



*SB024 mounted to 24" studs with one 4" square box installed.*



*SB016 mounted to 16" studs with three 4" square boxes (full capacity) installed.*



*SB024 mounted to 24" studs with five 4" square boxes (full capacity) installed.*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| SB016 | 16" stud-to-stud horizontal mounting bracket | 25 |
| SB024 | 24" stud-to-stud horizontal mounting bracket | 25 |



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# Pre-Fab Components and Assemblies

## VAFB Vertically Adjustable Floor Brackets

NEW!



***Built-in Far-Side Support for Both 4" and 6" Studs***
*Stabilizes box and bracket assembly, providing versatility on the job and ease of installation.*

***UL Listed***

***Flexible Design***
*Accommodates both 4" and 4 11/16" boxes.*

***Single-Screw Vertical Height Adjustment***
*Up to 6 additional inches.*

***Built-in Slots for Horizontal Support Bar***
*Provides the option to reinforce stud-to-stud strength (horizontal support bar not included).*

***Built-in Cable Support***
*Reduces labor and material costs by eliminating the need to purchase and install a separate cable support.*

***Standard 12" and 18" Box Mounting Locations***

*6" Height Adjustment Markings*



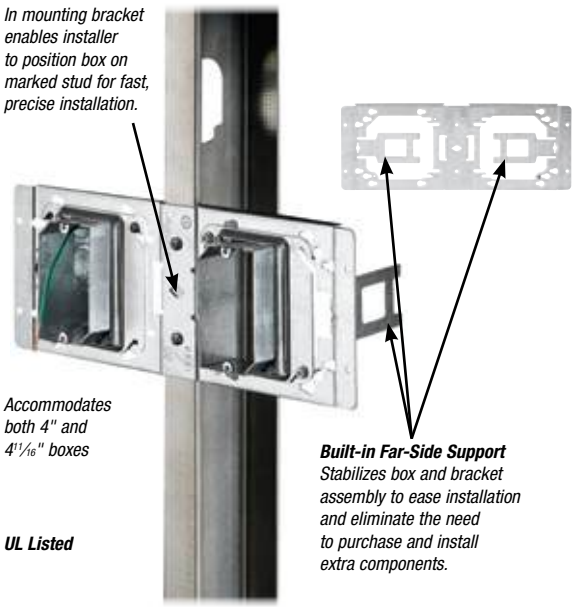


| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| VAFB | Pre-Fab Vertically Adjustable Floor Bracket | 10 |

## DBB1 Dual-Box Mounting Bracket

NEW!

***Locator Hole***
*In mounting bracket enables installer to position box on marked stud for fast, precise installation.*



*Accommodates both 4" and 4 11/16" boxes*

***UL Listed***

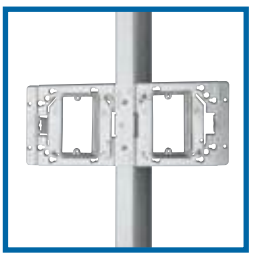
***Built-in Far-Side Support***
*Stabilizes box and bracket assembly to ease installation and eliminate the need to purchase and install extra components.*



Power on Both Sides of the Stud



Power Left of Stud and Low Voltage Right of the Stud



Low Voltage on Both Sides of the Stud



Power and Low Voltage on the Same Side of the Stud

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| DBBI | Pre-Fab Dual-Box Bracket | 50 |

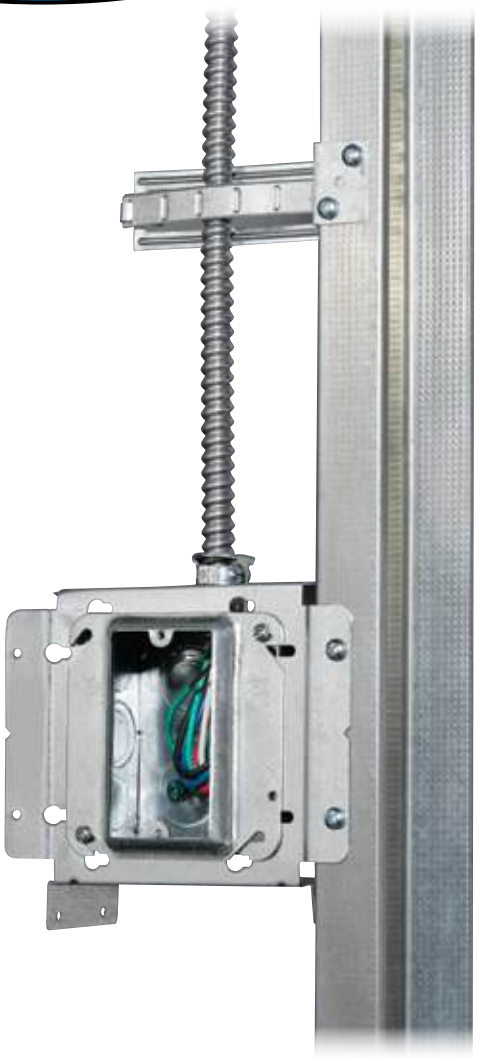
# Meet Code Requirements for Supporting and Securing Installed MC Cable.

NEW!

## Cable Support Bracket

- Provides a simple means of complying with NEC® 330.30 requirements for securing and supporting MC cable
- Quick and easy locking tab snaps through slot to secure cable
- Ribs maintain separation of cables
- Durable steel construction retains integrity
- Versatile design — use with Romex or MC cable
- UL Listed





| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| CSB1 | Cable Support Bracket | 100 |

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*



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# Steel City® Super Deep 4" Square Wall Boxes

NEW!

- Increased capacity accommodates large devices in commercial and industrial applications, such as fire alarm systems
- Red-painted version available for quick and easy identification of life safety electrical systems
- Available with or without integrally mounted support bracket



521911234RD



521911234CVRD



521911234



521911234CV

| CAT. NO. | DESCRIPTION | EARS | BRACKETS | EACH SIDE KO | EACH END KO | BOTTOM KO | CU. IN. CAPACITY | STD. CTN. |
|---|---|---|---|---|---|---|---|---|
| **521911234RD** | 3½"-Deep, 4"-Square Red Box | — | — | (4) ½" & ¾" Combo | (2) ½" & ¾" Combo | (4) ½" & ¾" Combo | 46 | 24 |
| **521911234CVRD** | 3½"-Deep, 4"-Square Red Box with Side Mounting Bracket | — | CV | (4) ½" & ¾" Combo | (2) ½" & ¾" Combo | (4) ½" & ¾" Combo | 46 | 10 |
| **521911234** | 3½"-Deep, 4"-Square Box | — | — | (4) ½" & ¾" Combo | (2) ½" & ¾" Combo | (4) ½" & ¾" Combo | 46 | 24 |
| **521911234CV** | 3½"-Deep, 4"-Square Box with Side Mounting Bracket | — | CV | (4) ½" & ¾" Combo | (2) ½" & ¾" Combo | (4) ½" & ¾" Combo | 46 | 10 |

# Easy Depth Adjustment After Wall Covering Installation.

## Adjust-A-Box®

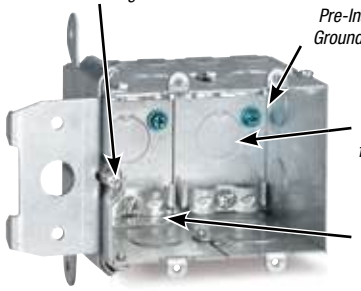
The Adjust-A-Box System adapts to a variety of wall coverings. Its unique design enables the installer to adjust the box to various depths with the turn of a screw.

**Features:**

- Unique design allows for adjustment of depth after the wall covering has been installed
- Adjusts to any wall covering
- Mounts square and secure every time
- Removes easily to enable inner-wall access
- Accommodates high- and low-voltage applications
- Pre-installed ground screw
- Accommodates non-metallic cable, flexible metal cable and EMT



*MB120ADJ*




*MB238ADJ*

## Installation:

**Screw bracket to stud**



*Single-Gang*



*Two-Gang*

**Adjust box in or out to any wall thickness**



*Single-Gang*



*Two-Gang*

| CAT. NO. | VOLUME (CU. IN.) | DESCRIPTION | KNOCKOUTS | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|
| **MB120ADJ** | 20 | One-Gang Adjustable Wall Box | ½" (5) | 2.20W x 3.28H x 3.52D | 18 | 19.25 |
| **MB238ADJ** | 38 | Two-Gang Adjustable Wall Box | ½" (8) | 4.01W x 3.28H x 3.52D | 12 | 17.60 |

## 3¾" x 2" Switch Boxes

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | CLAMPS | EARS | BRKTS. | KNOCKOUTS | STD. CTN. |
|---|---|---|---|---|---|---|---|
| ***Non-Gangable*** | | | | | | | |
| **SSV** | 1 | 6.5 | — | — | Flat | 2 pry-outs one end | 25 |
| **SSQV** | 1 | 6.5 | Yes | — | Flat | 2 pry-outs one end with non-metallic cable clamps | 25 |

*Not UL Listed.*

*SSQV with non-metallic sheathed cable clamps*



*SSV*





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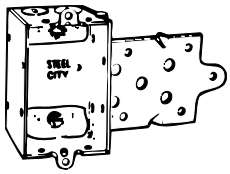
www.tnb.com

# Switch Boxes and Accessories

## 3" x 2" Switch Boxes



*SWB-25*
*Ears flush for old work*



*811-SW-25*
*S bracket recessed 5/8"*



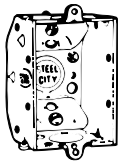
*LXMWOW-25*
*Ears flush for old work*



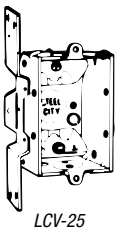
*LCOW-25*
*Ears flush old work*



*LCOWC*
*Adapts to any wall thickness up to 3/4"*



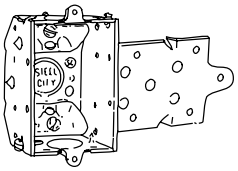
*LCLE-25*



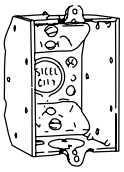
*LCV-25*
*CV bracket recessed 3/4"*



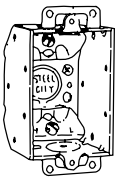
*LCNOW-25*
*Ears flush for old work*



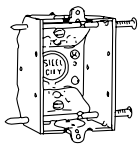
*802-S*
*S bracket recessed 5/8"*



*A12-25*



*A12E-25*
*Ears flush*



*A16-25*
*With nails*



*LXWOW-25*
*Ears flush for old work*



*LXWOWP*



*LXWLE-25*



*LXWOWC-25*
*Adapts to any wall thickness up to 3/4"*



*LXWSV*
*SV bracket recessed 7/16"*



*LXWV-25*
*CV bracket recessed 7/8"*

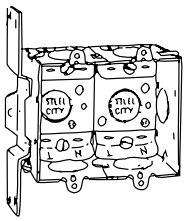
### With Non-Metallic Sheathed Cable Clamps

| CAT. NO. | DEPTH (IN.) | GANGABLE | CU. IN. CAPACITY | CLAMPS | EARS | BRKTS. | KNOCKOUTS (IN.) EA. END CONDUIT | EA. END CABLE | CABLE | BOTTOM CABLE | BOTTOM CONDUIT | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SWB-25** | 1½ | — | 7.5 | C-5 | Yes | — | — | 2 | — | 2 | — | 25 |
| **811 SW-25** | 1½ | — | 7.5 | C-5 | — | S | — | 2 | — | 2 | — | 50 |
| **LXMWOW-25** | 2 | Yes | 10.5 | C-5 | Yes | — | — | 2 | — | — | 1–½ | 25 |
| **LCOW-25*** | 2¼ | Yes | 10.5 | C-1 | Yes | — | 1–½ | — | 2 | — | 1–½ | 25 |
| **LCOWC*** | 2¼ | Yes | 10.5 | C-1 | Yes | — | 1–½ | — | 2 | — | 1–½ | 25 |
| **LCLE-25*** | 2¼ | Yes | 10.5 | C-1 | — | — | 1–½ | — | 2 | — | 1–½ | 25 |
| **LCV-25*** | 2¼ | Yes | 10.5 | C-1 | — | CV | 1–½ | — | 2 | — | 1–½ | 25 |
| **LCNOW-25*** | 2¼ | Yes | 10.5 | C-1 | Yes | — | 1–½ | — | 2 | — | 1–½ | 25 |
| **802 S*** | 2¼ | Yes | 10.5 | C-1 | — | S | 1–½ | — | 2 | — | 1–½ | 25 |
| **A12-25** | 2¼ | — | 10.5 | C-1 | — | — | 1–½ | — | 2 | — | 1–½ | 25 |
| **A12E-25** | 2¼ | — | 10.5 | C-1 | Yes | — | 1–½ | — | 2 | — | 1–½ | 25 |
| **A16-25** | 2¼ | — | 10.5 | C-1 | — | — | 1–½ | — | 2 | — | 1–½ | 25 |
| **LXWOW-25** | 2½ | Yes | 12.5 | C-5 | Yes | — | 1–½ | — | 2 | — | 1–½ | 25 |
| **LXWOWP** | 2½ | Yes | 12.5 | C-5 | Yes | — | 1–½ | — | 2 | — | 1–½ | 25 |
| **LXWLE-25** | 2½ | Yes | 12.5 | C-5 | — | — | 1–1½ | 1–½ | 2 | — | 1–½ | 25 |
| **LXWOWC-25** | 2½ | Yes | 12.5 | C-5 | Yes | — | 1–½ | — | 2 | — | 1–½ | 25 |
| **LXWSV** | 2½ | Yes | 12.5 | C-5 | — | SV | 1–½ | 1–½ | 2 | — | 1–½ | 25 |
| **LXWV-25** | 2½ | Yes | 12.5 | C-5 | — | CV | 1–½ | 1–1½ | 2 | — | 1–½ | 25 |

** Beveled corners.*

## Switch Boxes and Accessories

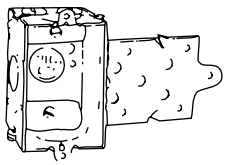
# 3" x 2" Switch Boxes *(continued)*



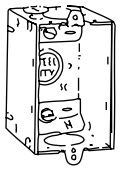
*LXWV 2G*
*2-gang with CV bracket recessed 7/8"*



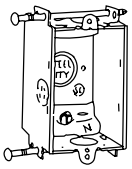
*806 SW*
*S bracket recessed 5/8"*



*806 SW 1/4*
*S bracket recessed 1/4"*



*A254-25*



*A257-25*
*With nails slanted for easy drive-in*



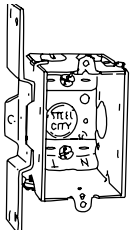
*A-258*
*Without nails*



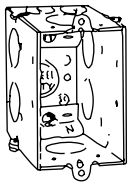
*CWN-25*
*Ears flush*



*CWNLE*



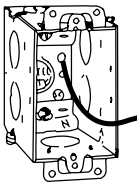
*CWNV-25*
*CV bracket recessed 7/8"*



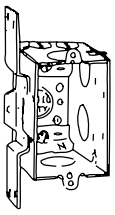
*CXWLE*



*CXWOW*
*Ears flush for old work*



*CXWOWP*



*CXWV*
*CV bracket recessed 7/8"*



*CXWVP*

### With Non-Metallic Sheathed Cable Clamps *(continued)*

| CAT. NO. | DEPTH (IN.) | GANGABLE | CU. IN. CAPACITY | CLAMPS | EARS | BRKTS. | KNOCKOUTS (IN.) EA. END CONDUIT | EA. END CABLE | CABLE | BOTTOM CABLE | BOTTOM CONDUIT | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LXWV 2G** | 2½ | Yes | 12.5 | C-5 | — | CV | 1–½ | 2–½ | 4 | — | 2–½ | 25 |
| **806 SW** | 2½ | Yes | 12.5 | C-5 | — | S | 1–½ | 1–½ | 2 | — | 1–½ | 25 |
| **806 SW 1/4** | 2½ | Yes | 12.5 | C-5 | — | S | 1–½ | 1–1½ | 2 | — | 1–½ | 25 |
| **A254-25** | 2½ | — | 12.5 | C-5 | — | — | — | 1–½ | 2 | — | 1–½ | 25 |
| **A257-25** | 2½ | — | 12.5 | C-5 | — | — | — | 1–½ | 2 | — | 1–½ | 25 |
| **A-258** | 2½ | — | 12.5 | C-5 | — | — | — | 1–½ | 2 | — | 1–½ | 25 |
| **CWN-25** | 2¾ | Yes | 14.0 | C-5 | Yes | — | 1–½ | — | 2 | — | 1–½ | 25 |
| **CWNLE** | 2¾ | Yes | 14.0 | C-5 | — | — | 1–½ | — | 2 | — | 1–½ | 25 |
| **CWNV-25** | 2¾ | Yes | 14.0 | C-5 | — | CV | 1–½ | — | 2 | — | 1–½ | 25 |
| **CXWLE** | 3½ | Yes | 18.0 | C-5 | — | — | 2–½ | 1–½ | 2 | — | 1–½ | 25 |
| **CXWOW** | 3½ | Yes | 18.0 | C-5 | Yes | — | 2–½ | 1–½ | 2 | — | 1–½ | 25 |
| **CXWOWP** | 3½ | Yes | 18.0 | C-5 | Yes | — | 2–½ | 1–½ | 2 | — | 1–½ | 25 |
| **CXWV** | 3½ | Yes | 18.0 | C-5 | — | CV | 2–1½ | 1–½ | 2 | — | 1–½ | 25 |
| **CXWVP** | 3½ | Yes | 18.0 | C-5 | — | CV | 2–½ | 1–½ | 2 | — | 1–1½ | 25 |



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# 3" x 2" Switch Boxes *(continued)*





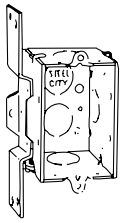
*CDOW*
*Ears flush*



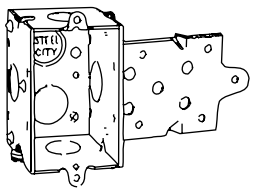
*CDOWTG-25*
*Ears flush*



*CDLE-25*



*CDV-25*
*CV bracket recessed 7/8"*



*804 S*
*S bracket recessed 5/8"*



*CW 1/2*
*Ears flush*



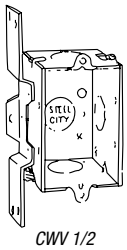
*CW3/4-25*
*Ears flush*



*CWLE1/2-25*



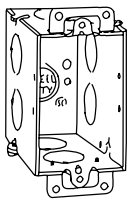
*CWLE 3/4*



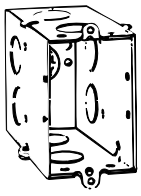
*CWV 1/2*
*CV bracket recessed 7/8"*



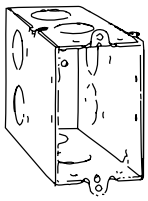
*CY 1/2*
*Ears flush*



*CY 3/4*
*Ears flush*



*CYLE 1/2*



*CYLE 3/4*

## With Conduit KOs

| CAT. NO. | DEPTH (IN.) | GANGABLE | CU. IN. CAPACITY | EARS | BRKTS. | KNOCKOUTS (IN.) EA. END CONDUIT | EA. END CABLE | BOTTOM CONDUIT | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|
| **CDOW** | 2½ | Yes | 12.5 | Yes | — | 1½ | 1½ | 2½ | 50 |
| **CDOWTG-25** | 2½ | Yes | 12.5 | Yes | — | 1½ | 1½ | 2½ | 25 |
| **CDLE-25** | 2½ | Yes | 12.5 | — | — | 1½ | 1½ | 2½ | 25 |
| **CDV-25** | 2½ | Yes | 12.5 | — | CV | 1½ | 1½ | 2½ | 25 |
| **804 S** | 2½ | Yes | 12.5 | — | S | 1½ | 1½ | 2½ | 25 |
| **CW 1/2** | 2¾ | Yes | 14.0 | Yes | — | 1–½ | 1–½ | 1–½ | 50 |
| **CW3/4-25** | 2¾ | Yes | 14.0 | Yes | — | 1–¾ | 1–¾ | 1–¾ | 25 |
| **CWLE1/2-25** | 2¾ | Yes | 14.0 | — | — | 1–½ | 1–½ | 1–½ | 25 |
| **CWLE 3/4** | 2¾ | Yes | 14.0 | — | — | 1–¾ | 1–¾ | 1–¾ | 25 |
| **CWV 1/2** | 2¾ | Yes | 14.0 | — | CV | 1–½ | 1–½ | 1–½ | 25 |
| **CY 1/2** | 3½ | Yes | 18.0 | Yes | — | 2–½ | 2–½ | 1–½ | 25 |
| **CY 3/4** | 3½ | Yes | 18.0 | Yes | — | 2–¾ | 2–¾ | 1–½ | 25 |
| **CYLE 1/2** | 3½ | Yes | 18.0 | — | — | 2–½ | 2–½ | 1–½ | 25 |
| **CYLE 3/4** | 3½ | Yes | 18.0 | — | — | 2–¾ | 2–¾ | 1–½ | 25 |

# 3" x 2" Switch Boxes *(continued)*



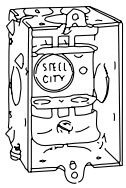
*LXMOW-25*
*Ears flush*
*for old work*



*LXOW-25*
*Ears flush*
*for old work*



*LXOWC-25*
*Adapts to ¾"*
*wall thickness*



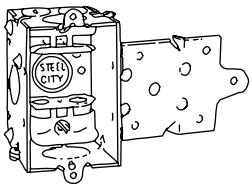
*LXLE*



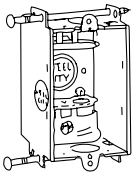
*LXV-25*
*CV bracket*
*recessed ⅞"*



*LXVP*



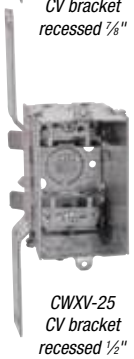
*806 S*
*S bracket recessed ⅝"*



*A-256*
*With nails slanted*
*for easy drive-in*



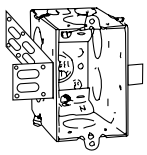
*CWX-25*
*Ears flush*



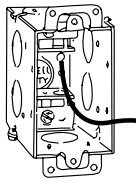
*CWXV-25*
*CV bracket*
*recessed ½"*



*CX*
*Ears flush*



*CXLE-SSX*
*For metal stud*



*CXP*



*CXV*
*CV bracket*
*recessed ⅞"*

## With Armored Cable/Metal Clad Clamps

| CAT. NO. | DEPTH (IN.) | GANGABLE | CU. IN. CAPACITY | CLAMPS | EARS | BRKTS. | KNOCKOUTS (IN.) EA. END CONDUIT | EA. END CABLE | CABLE | BOTTOM CONDUIT | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **LXMOW-25** | 2 | Yes | 10.5 | C-3 | Yes | — | — | 2 | — | 1–½ | 25 |
| **LXOW-25** | 2½ | Yes | 12.5 | C-3 | Yes | — | 1–½ | — | 2 | 1–½ | 25 |
| **LXOWC-25** | 2½ | Yes | 12.5 | C-3 | Yes | — | 1–½ | — | 2 | 1–½ | 25 |
| **LXLE** | 2½ | Yes | 12.5 | C-3 | — | — | 1–½ | 1–½ | 2 | 1–½ | 25 |
| **LXV-25** | 2½ | Yes | 12.5 | C-3 | — | CV | 1–½ | 1–½ | 2 | 1–½ | 25 |
| **LXVP** | 2½ | Yes | 12.5 | C-3 | — | CV | 1–½ | 1–½ | 2 | 1–½ | 25 |
| **806 S** | 2½ | Yes | 12.5 | C-3 | — | S | 1–½ | 1–½ | 2 | 1–½ | 25 |
| **A-256** | 2½ | — | 12.5 | C-3 | — | — | — | 1–½ | 2 | 1–½ | 25 |
| **CWX-25** | 2¾ | Yes | 14.0 | C-3 | Yes | — | 1–½ | — | 2 | 1–½ | 25 |
| **CWXV-25** | 2¾ | Yes | 14.0 | C-3 | — | CV | 1–½ | — | 2 | 1–½ | 25 |
| **CX** | 3½ | Yes | 18.0 | C-3 | Yes | — | 2–½ | 1–½ | 2 | 1–½ | 25 |
| **CXLE-SSX** | 3½ | Yes | 18.0 | C-3 | No | SSX | 2–½ | 1–½ | 2 | 1–½ | 25 |
| **CXP** | 3½ | Yes | 18.0 | C-3 | Yes | — | 2–½ | 1–½ | 2 | 1–½ | 25 |
| **CXV** | 3½ | Yes | 18.0 | C-3 | — | CV | 2–½ | 1–½ | 2 | 1–½ | 25 |



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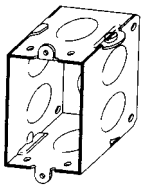
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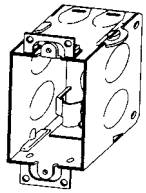
# Switch Boxes and Accessories

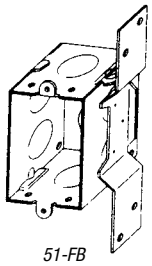


## Gangable Switch Boxes — 2" Deep


51


51-NE

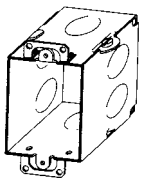

51-LC

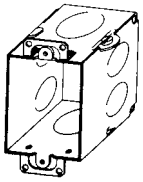

51-FB

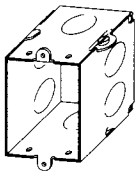
| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **51** | 10.0 | **2" deep x 3" long x 2" wide**<br>Two ½" KOs in each of two sides, one ½" KO in each end and two ½" KOs in bottom. Two nail holes in sides. Furnished with plaster ears* | 50 |
| **51-NE** | 10.0 | **2" deep x 3" long x 2" wide**<br>Two ½" KOs in each of two sides, one ½" KO in each end and two ½" KOs in bottom. Two nail holes in sides* | 50 |
| **51-LC** | 10.0 | **For Non-Metallic Cable, 2" deep x 3" long x 2" wide**<br>Two ½" KOs in each of two sides, two Loom KOs in each end and one ½" KO in bottom. Furnished with plaster ears.<br>One Loom clamp for use on non-metallic sheathed cable with 10/32 deep-slotted screw assembled. Two nail holes in sides* | 50 |
| **51-FB** | 10.0 | **2" deep x 3" long x 2" wide**<br>Two ½" KOs in one side, flat bracket on other side, one ½" KO in each end and two ½" KOs in bottom.<br>Bracket offset 9/16" from face* | 50 |

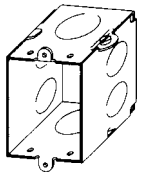
**Uses Steel City® 100 series covers.*

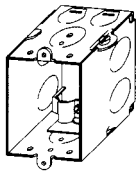
## Gangable Switch Boxes — 2½" Deep

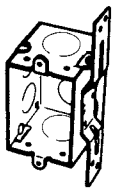

52

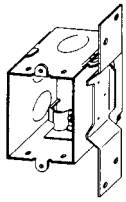

52-3/4-BW


52-NE


52-NE-3/4


52-LCNE


52-FB-3/4

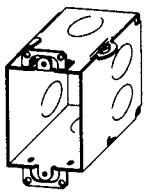

52-FBC

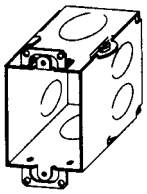
| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **52** | 12.5 | **2½" deep x 3" long x 2" wide**<br>Two ½" KOs in each of two sides, one ½" KO in each end and two ½" KOs in bottom.Furnished with plaster ears. Four nail holes in sides* | 50 |
| **52-3/4-BW** | 12.5 | **2½" deep x 3" long x 2" wide**<br>Two ½" KOs in each of two sides, one ¾" KO in each end and two ½" KOs in bottom. Furnished with plaster ears. Four nail holes in sides* | 50 |
| **52-NE** | 12.5 | **2½" deep x 3" long x 2" wide**<br>Two ½" KOs in each of two sides, one ½" KO in each end and two ½" KOs in bottom. Four nail holes in sides* | 50 |
| **52-NE-3/4** | 12.5 | **2½" deep x 3" long x 2" wide**<br>Two ½" KOs in each of two sides, one ¾" KO in each end and two ½" KOs in bottom. Four nail holes in sides* | 50 |
| **52-LCNE** | 12.5 | **For Non-Metallic Cable, 2½" deep x 3" long x 2" wide**<br>Two ½" KOs in each side, two Loom KOs and one ½" KO in each end. One ½" KO in bottom. One Loom clamp for use on non-metallic sheathed cable with 10/32 deep-slotted screw assembled. Four nail holes in sides* | 50 |
| **52-FB-3/4** | 12.5 | **2½" deep x 3" long x 2" wide**<br>Two ½" KOs in one side, flat bracket on other side, one KO in each end and two ¾" KOs in bottom. Flat bracket offset 9/16" from face* | 50 |
| **52-FBC** | 12.5 | **For Non-Metallic Cable, 2½" deep x 3" long x 2" wide**<br>Two ½" KOs in one side, flat bracket on other side, two Loom KOs and one ½" KO in each end and one ½" KO in bottom. One Loom clamp for use on non-metallic sheathed cable with 10/32 deep-slotted screw assembled. Flat bracket offset 9/16" from face* | 50 |

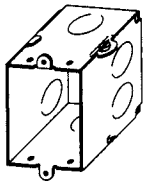
**Uses Steel City® 100 series covers.*

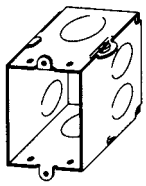
## Switch Boxes and Accessories

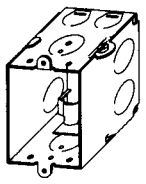
# Gangable Switch Boxes — 2¾" Deep

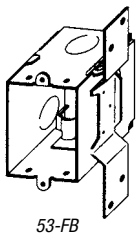

53

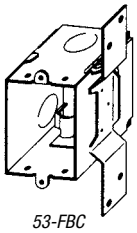

53-3/4-BW

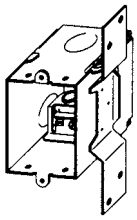

53-NE

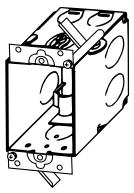

53-NE-3/4

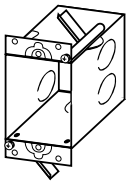

53-LCNE

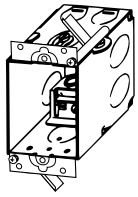

53-FB


53-FBC


53-FB-MXN


53-OWEC


53-OWE


53-OWE-MXN

| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **53** | 14.0 | **2¾" deep x 3" long x 2" wide**<br>Two ½" KOs in each side, one ½" KO in each end and two ½" KOs in bottom. Furnished with plaster ears. Four nail holes in sides* | 50 |
| **53-3/4-BW** | 14.0 | **2¾" deep x 3" long x 2" wide**<br>Two ½" KOs in each side, one ¾" KO in each end and two ½" KOs in bottom. Furnished with plaster ears. Four nail holes in sides* | 50 |
| **53-NE** | 14.0 | **2¾" deep x 3" long x 2" wide**<br>Two ½" KOs in each side, one ½" KO in each end and two ½" KOs in bottom. Four nail holes in sides* | 50 |
| **53-NE-3/4** | 14.0 | **2¾" deep x 3" long x 2" wide**<br>Two ½" KOs in each side, one ¾" KO in each end and two ½" KOs in bottom. Four nail holes in sides* | 50 |
| **53-LCNE** | 14.0 | **For Non-Metallic Cable, 2¾" deep x 3" long x 2" wide**<br>Two ½" KOs in each side, two Loom KOs and one ½" KO in each end and one ½" KO in bottom.<br>One Loom clamp for use on non-metallic sheathed cable with 10/32 deep-slotted screw assembled. Four nail holes in sides* | 50 |
| **53-FB** | 14.0 | **2¾" deep x 3" long x 2" wide**<br>Two ½" KOs in one side, flat bracket on other side, one ½" KO in each end and two ½" KOs in bottom. Flat bracket offset 9/16" from face* | 50 |
| **53-FBC** | 14.0 | **For Non-Metallic Cable, 2¾" deep x 3" long x 2" wide**<br>Two ½" KOs in one side, flat bracket on other side, two Loom KOs and one ½" KO in each end and one ½" KO in bottom.<br>Flat offset 9/16" from face. One Loom clamp for use on non-metallic sheathed cable with 10/32 deep-slotted screw assembled* | 50 |
| **53-FB-MXN** | 14.0 | **For Metal Clad Cable, 2¾" deep x 3" long x 2" wide**<br>Two ½" KOs in one side, flat bracket on other side, two Loom KOs and one ½" KO in each end, and one ½" KO in bottom.<br>One MXN clamp for MC, AC/BX, and non-metallic sheathed cable (NM) included with 10/32 deep-slotted screw.<br>Clamp is UL Listed for use with cable sizes 14/2 through 10/3 with ground* | 50 |
| **53-OWEC** | 14.0 | **For Non-Metallic Cable, 2¾" deep x 3" long x 2" wide**<br>Two ½" KOs in each side, two Loom KOs and one ½" KO in each end and one ½" KO in bottom. Furnished with plaster ears.<br>One Loom clamp for use on non-metallic sheathed cable with 10/32 deep-slotted screw assembled. With old-work swing brackets* | 50 |
| **53-OWE** | 14.0 | **2¾" deep x 3" long x 2" wide**<br>Two ½" KOs in each side, one ½" KO in each end and two ½" KOs in bottom. Furnished with plaster ears. With old-work swing brackets* | 50 |
| **53-OWE-MXN** | 14.0 | **For Metal-Clad Cable, 2¾" deep x 3" long x 2" wide**<br>Two ½" KOs in each side. Two Loom KOs and one ½" KO in each end and one ½" KO in bottom. One MXN clamp for MC, AC/BX and non-metallic sheathed cable (NM) included with 10/32 deep-slotted screw. Clamp is UL Listed for use with cable sizes 14/2 through 10/3 with ground. Furnished with plaster ears. With old-work swing brackets* | 50 |

*Uses Steel City® 100 series covers.*



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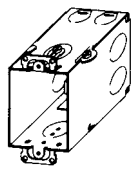
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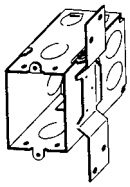
# Switch Boxes and Accessories



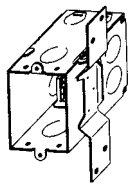
## Gangable Switch Boxes — 3½" Deep



54-LC



54-FBC

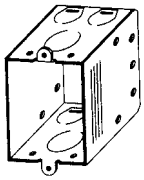


54-FB-MXN

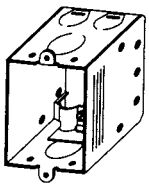
| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **54-LC** | 18.0 | **For Non-Metallic Cable**<br>**3½" deep x 3" long x 2" wide**<br>Two ½" KOs in each side, two Loom KOs and one ½" KO in each end and one ½" KO in bottom. Two Loom clamps for use on non-metallic sheathed cable with 10/32 deep-slotted screws assembled. Furnished with plaster ears. Four nails holes in sides* | 50 |
| **54-FBC** | 18.0 | **For Non-Metallic Cable**<br>**3½" deep x 3" long x 2" wide**<br>Two ½" KOs in one side, flat bracket and two ½" KOs in other side, two Loom KOs and one ½" KO in each end and one ½" KO in bottom.<br>Two Loom clamps for use on non-metallic sheathed cable with 10/32 deep-slotted screws assembled. Flat bracket offset 9/16" from face* | 50 |
| **54-FB-MXN** | 18.0 | **For Metal Cable, 3½" deep x 3" long x 2" wide**<br>Two ½" KOs in one side, flat bracket and two ½" KOs in other side, two Loom KOs and one ½" KO in each end and one ½" KO in bottom.<br>Two MXN clamps for MC, AC/BX, and non-metallic sheathed cable (NM) included with 10/32 deep-slotted screws. Clamps are UL Listed for use with cable sizes 14/2 through 10/3 with ground. Flat bracket offset 9/16" from face* | 50 |

**Uses Steel City® 100 series covers.*

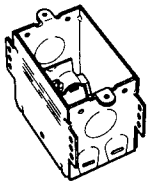
## Welded Non-Gangable Switch Boxes — 2½" Deep



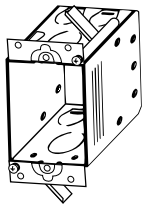
72



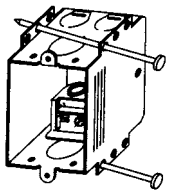
72-C



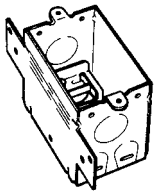
72-OC



72-OWE



72-ONS-MXN



72-FB-MXN

| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **72** | 12.5 | **2½" deep x 3" long x 2" wide**<br>Two Loom KOs and one ½" KO in each end and one ½" KO in bottom. Four nail holes included* | 50 |
| **72-C** | 12.5 | **For Non-Metallic Cable**<br>**2½" deep x 3" long x 2" wide**<br>Two Loom KOs and one ½" KO in each end and one ½" KO in bottom. Four nail holes included. One Loom clamp for use on non-metallic sheathed cable with 10/32 deep-slotted screw assembled* | 50 |
| **72-OC** | 12.5 | **For Non-Metallic Cable**<br>**2½" deep x 3" long x 2" wide**<br>Two Loom KOs and one ½" KO in each end and one ½" KO in bottom. One Loom clamp for use on non-metallic sheathed cable with 10/32 deep-slotted screw assembled. Four nail holes included. Provisions for external nails included* | 50 |
| **72-OWE** | 12.5 | **2½" deep x 3" long x 2" wide**<br>Two Loom KOs and one ½" KO in each end and one ½" KO in bottom. With old-work swing brackets* | 50 |
| **72-ONS-MXN** | 12.5 | **For Metal-Clad Cable**<br>**2½" deep x 3" long x 2" wide**<br>Two Loom KOs and one ½" KO in each end and one ½" KO in bottom. One MXN clamp for MC, AC/BX and nonmetallic sheathed cable (NM) included with 10/32 deep-slotted screw. Clamp is UL Listed for use with cable sizes 14/2 through 10/3 with ground. Four nail holes included. Two 16-penny nails swaged at an angle in box* | 50 |
| **72-FB-MXN** | 12.5 | **For Metal-Clad Cable**<br>**2½" deep x 3" long x 2" wide**<br>Two Loom KOs and one ½" KO in each end, one ½" KO in bottom and flat bracket on one side offset 9/16" from face. Two MXN clamps for MC, AC/BX and non-metallic sheathed cable (NM) included with 10/32 deep-slotted screws. Clamps are UL Listed for use with cable sizes 14/2 through 10/3 with ground. Four nail holes included* | 50 |

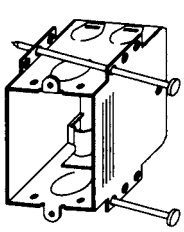
**Uses Steel City® 100 series covers.*

# Switch Boxes and Accessories

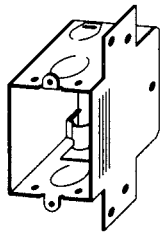
## Welded Non-Gangable Switch Boxes — 2 13/16" Deep

| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| 73-ONCS | 15.8 | **For Non-metallic Cable, 2 13/16" deep x 3" long x 2 9/64" wide** Two Loom KOs and one 1/2" KO in each end and one 1/2" KO in bottom. One Loom clamp for use on non-metallic sheathed cable with 10/32 deep-slotted screw assembled. Two 16-penny nails swaged at an angle in box* | 50 |
| 73-FBC | 15.8 | **For Non-metallic Cable, 2 13/16" deep x 3" long x 2 9/64" wide** Two Loom KOs and one ½" KO in each end, one ½" KO in bottom and flat bracket on one side offset 9/16" from face. One Loom clamp for use on non-metallic sheathed cable with 10/32 deep-slotted screw assembled. Four nail holes included* | 50 |
| 73-FB-MXN | 15.8 | **For Metal-Clad Cable, 2 13/16" deep x 3" long x 2 9/64" wide** Two Loom KOs and one 1/2" KO in each end, one 1/2" KO in bottom and flat bracket on one side offset 9/16" from face. One MXN clamp for MC, AC/BX and non-metallic sheathed cable (NM) included with 10/32 deep-slotted screw. Clamp is UL Listed for use with cable sizes 14/2 through 10/3 with ground. Four nail holes included* | 50 |

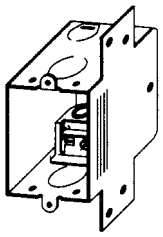
**Uses Steel City® 100 series covers.*



*73-ONCS*



*73-FBC*

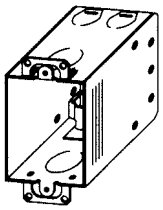


*73-FB-MXN*

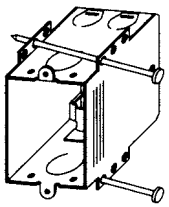
## Welded Non-Gangable Switch Boxes — 3" Deep

| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| 74-CE | 18 | **For Non-metallic Cable, 3⅛" deep x 3" long x 2¼" wide** Two Loom KOs and one ½" KO in each end and one ½" KO in bottom. One Loom clamp for use on non-metallic sheathed cable with 10/32 deep-slotted screw assembled. Furnished with ears. Four nail holes included* | 50 |
| 74-ONCS | 18 | **For Non-metallic Cable, 3⅛" deep x 3" long x 2¼" wide** Two Loom KOs and one ½" KO in each end and one ½" KO in bottom. One Loom clamp for use on non-metallic sheathed cable with 10/32 deep-slotted screw assembled. Two 16-penny nails swaged at an angle in box* | 50 |
| 74-FBC | 18 | **For Non-metallic Cable, 3⅛" deep x 3" long x 2¼" wide** Two Loom KOs and one ½" KO in each end, one ½" KO in bottom and flat bracket on one side offset 9/16" from face. One Loom clamp for use on non-metallic sheathed cable with 10/32 deep-slotted screw assembled. Four nail holes included* | 50 |

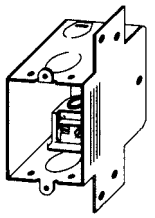
**Uses Steel City® 100 series covers.*



*74-CE*



*74-ONCS*

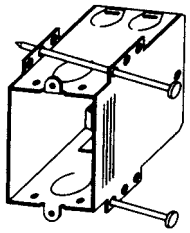


*74-FBC*

## Welded Non-Gangable Switch Box — 3 13/32" Deep

| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| 75-ONCS | 20.0 | **For Non-metallic Cable, 3 13/32" deep x 3" long x 2¼" wide** Two Loom KOs and one ½" KO in each end and one ½" KO in bottom. Two Loom clamp for use on non-metallic sheathed cable with 10/32 deep-slotted screw assembled. Four nail holes included. Two 16-penny nails swaged at angle in box*. | 50 |

**Uses Steel City® 100 series covers.*



*75-ONCS*



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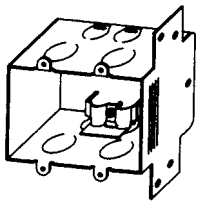
# Switch Boxes and Accessories



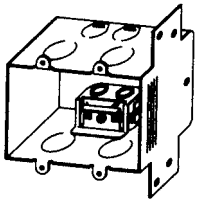
## Welded Multi-Gangable Switch Boxes — 2½" Deep

| CAT. NO. | CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **271-FBC** | 25.0 | **A Two-Gang Box — For Non-Metallic Cable, 2½" deep x 3" long x 4" wide** Two Loom KOs and two ½" KOs in each end, flat bracket on one side and one ½" KO in bottom. Two Loom clamps for use on non-metallic sheathed cable with 10/32 deep-slotted screws assembled. Flat bracket offset 9/16" from face* | 25 |
| **271-FB-MXN** | 25.0 | **A Two-Gang Box — For Metal-Clad Cable, 2½" deep x 3" long x 4" wide** Two Loom KOs and two ½" KOs in each end, flat bracket on one side and one ½" KO in bottom.Two MXN clamps for MC, AC/BX and non-metallic sheathed cable (NM) included with 10/32 deep-slotted screws. Clamps are UL Listed for use with cable sizes 14/2 through 10/3 with ground. Flat bracket offset 9/16" from face* | 25 |

**Uses Steel City® SB-2 covers.*



*271-FBC*



*271-FB-MXN*

## 4" x 2⅛" Thru-Wall Box

| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | BOX DEPTH (IN.) | STD. CTN. |
|---|---|---|---|---|
| ***With Conduit KOs for Plaster or Dry Wall*** | | | | |
| **CTDW** | 32.0 | Drywall, partition type; one ½" and one ¾" KO both ends; one ½" KO on one side, V bracket other side | 4 5/16 | 25 |



*CTDW*

## Switch Box Extension

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **SBEX** | Cubic content 3.5 inches; fits snugly inside of all single-gang switch boxes; maximum adjustable depth ⅞"; furnished with 1¼"-long screws for mounting | 50 |

*UL Listing not applicable — subject to approval by local inspector.*



*SBEX*

# Switch Boxes and Accessories

## Old-Work Box Support

- Quickly attaches box through finished drywall
- For up to 1½" thick drywall
- New 820D shipped in one-piece break-apart design
- Easy to install

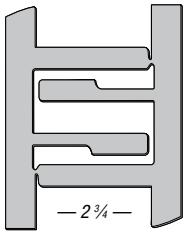
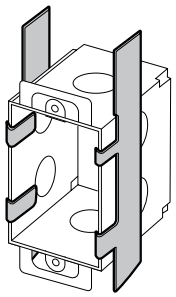


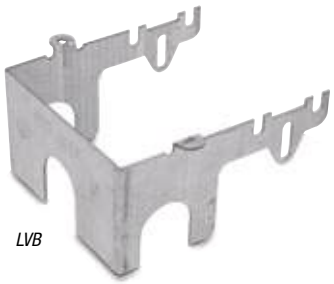

Fig. 1



| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| 820D | 1 | Old-work switch box steel-mounting holder | 500 sets |

## Steel Low-Voltage Bracket

- Fixes to the switch box easily with the screws provided
- Works with any Steel City® switch box, regardless of depth
- Single-screw fixing as well as two-screw fixing
- Low-voltage cable support is provided by fitting location tabs
- UL Listed for low-voltage support



LVB

| CAT. NO. | DESCRIPTION | BOX DEPTH (IN.) | STD. CTN. |
|---|---|---|---|
| LVB | Bracketed to T&B boxes; provides means of installing a low-voltage device alongside a regular switch or outlet | 1⅛ | 25 |

## Old-Work Box Support Clips

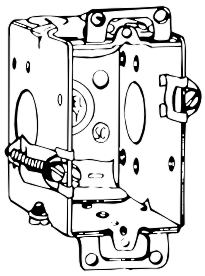
- Adapts to any wall thickness up to ¾"



OW Swing Ear



OWC



| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| OWC | Clips lock old-work steel switch boxes tightly to wall plaster, drywall, concrete block, brick or concrete. 2 required per box, (1 set) | 250 sets |
| OW SWING EAR | Swing ears only (for field installations) with self-threading screws | 50 (25 pair) |



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# Round/Octagon Boxes and Accessories



## 4" Round Boxes

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | DESCRIPTION | KNOCKOUTS (IN.) CONDUIT BOTTOM | STD. CTN. |
|---|---|---|---|---|---|
| ***With Conduit KOs*** | | | | | |
| **56111** | ½ | 6.0 | Steel outlet box | 4–½ | 50 |
| **56111-CFB*** | ½ | 6.0 | Ceiling fan box with plastic Romex connector included. NC501-SC | 2–½ | 10 |

**Meets NEC® 314.27(c) up to 35 lb. fan.*

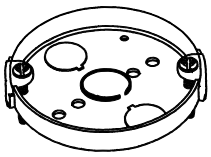
*56111-CFB is shipped with plastic cover and all hardware.*

*50 lb. maximum loading for fixtures.*

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*



*56111*



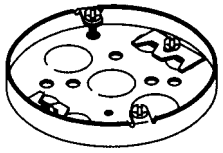
*56111-CFB*

## 4" Pancake Boxes

| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **410-LC** | 5.8 | **For Non-Metallic Sheathed Cable, 4" diameter — ½" deep** Three ½" KOs in a line and four Loom KOs at opposite ends in bottom. Furnished with two Loom clamps for non-metallic cable with 10/32 deep-slotted screws and two 8/32 x ½" screws in ears* | 50 |

**Uses Steel City® 500 series covers.*

*50 lb. maximum loading for fixtures.*

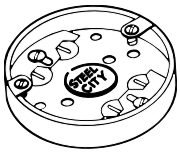


*410-LC*

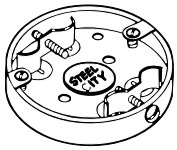
## 3½" Round Boxes

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | CLAMPS | KNOCKOUTS (IN.) BOTTOM CONDUIT | KNOCKOUTS (IN.) CABLE | STD. CTN. |
|---|---|---|---|---|---|---|
| ***With Non-Metallic Sheathed Cable Clamps*** | | | | | | |
| **36115 C30** | ½ | 4.0 | C-8 | 1–½ | 4 | 30 |
| **36125 D** | ¾ | 4.0 | C-10 | 1–½ | 4 | 25 |

*50 lb. maximum loading for fixtures.*



*36115 C30*
*Cover screws supplied*



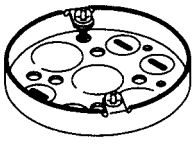
*36125 D*
*Cover screws supplied*

## 3¼" Pancake Boxes

| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **210-L** | 4.0 | For Non-Metallic Sheathed Cable, 3¼" diameter — ½" deep. Three ½" KOs in a line with four Loom KOs at opposite ends in bottom. Furnished with two 8/32 x ½" screws* | 100 |

**Uses Steel City® 300 series covers.*

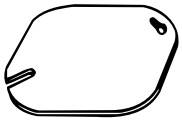
*50 lb. maximum loading for fixtures.*



*210-L*

## Covers for 3½" Round and Octagon Boxes

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **24C1-25** | Flat, blank | 100 |
| **24-C-6** | Flat with ½" KO | 25 |



*24C1-25*



*24-C-6*

# Round/Octagon Boxes and Accessories

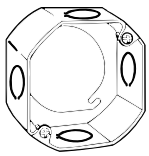
## 3½" Octagon Boxes

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | CLAMPS | KNOCKOUTS (IN.) EA. SIDE CLAMPS | EA. SIDE CONDUIT | EA. END CONDUIT | EA. END CABLE | BOTTOM CONDUIT | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|
| ***With Conduit KOs*** | | | | | | | | | |
| **241511/2-25** | 1½ | 11.8 | — | — | 1–½ | 1–½ | — | 1–½ | 50 |
| **25151 1/2** | 1½ | 11.8 | — | — | 1–½ | 1–½ | — | — | 50 |
| ***With Non-Metallic Sheathed Cable Clamps*** | | | | | | | | | |
| **24151N-25** | 1½ | 11.8 | C-5 | — | 1–½ | — | 2 | 1–½ | 50 |
| **24151-NV** | 1½ | 11.8 | C-5 | — | 1–½ | — | 2 | 1–½ | 50 |

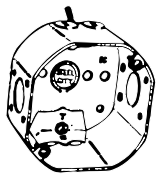
*50 lb. maximum loading for fixtures.*



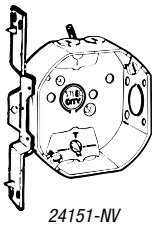
*241511/2-25*



*25151 1/2*

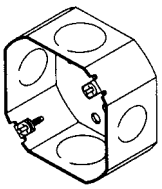


*24151N-25*

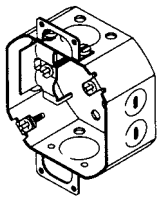


*24151-NV V bracket recessed ½"*

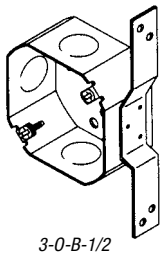
## 3½" Octagon Boxes



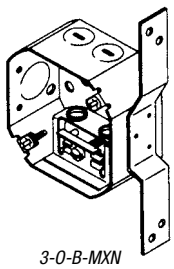
*3-0-SPL*



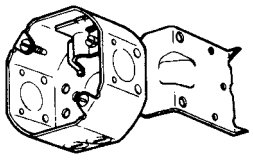
*3-0-LCE*



*3-0-B-1/2*



*3-0-B-MXN*



*3-0-LCH*

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | DESCRIPTION | CONSTRUCTION TYPE | STD. CTN. |
|---|---|---|---|---|---|
| **3-0-SPL** | 1½ | 11.8 | One ½" KO in each of two opposite sides, one ¾" KO in other two sides and one ½" KO in bottom* | Drawn | 50 |
| **3-0-LCE** | 1½ | 11.8 | **For Non-Metallic Sheathed Cable** Two Loom KOs in each of two opposite sides, two ½" KOs in other two sides and one ½" KO in bottom. Two ears, one on each of two opposite sides. Two Loom clamps for use on non-metallic sheathed cable with 10/32 deep-slotted screws assembled* | Drawn | 50 |
| **3-0-B-1/2** | 1½ | 11.8 | One ½" KO in each of three sides, flat bracket on fourth side, with one ½" KO in bottom. Flat bracket offset ½" from face* | — | 50 |
| **3-0-B-MXN** | 1½ | 11.8 | **For Metal-Clad Cable** Two Loom KOs in each of two opposite sides, one ½" KO in side opposite bracket and one ½" KO in bottom. Two MXN clamps for MC, AC/BX and non-metallic sheathed cable (NM) included with 10/32 deep-slotted screws. Clamps are UL Listed for use with cable sizes 14/2 through 10/3 with ground. Flat bracket offset ½" from face* | Drawn | 50 |
| **3-0-LCH** | 1½ | 11.8 | **For Non-Metallic Sheathed Cable** Two Loom KOs in each of two opposite sides, one ½" KO in other two sides and one ½" KO in bottom. Two Loom champs for use on non-metallic sheathed cable with 10/32 deep-slotted screws assembled. Hanger bracket for overhead work* | Drawn | 50 |

**Uses Steel City® 3½" octagonal extension rings and 300 series rings and covers.*

*50 lb. maximum loading for fixtures.*



Thomas&Betts

**United States**
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

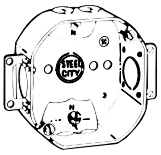
**Technical Services**
Tel: 888.862.3289

www.tnb.com

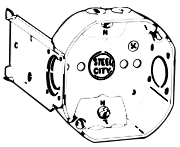
# 4" Octagon Boxes



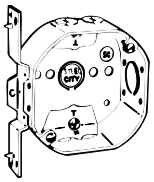
54151 N



54151 NE
Adjustable ears recessed ⅝"



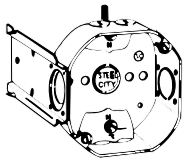
54151 NL
L bracket flush mounted



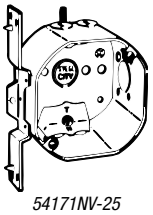
54151 NV
V bracket recessed ½"



54171N-25



54171 NL
L bracket mounted flush



54171NV-25
V bracket recessed ½"



54151 1/2



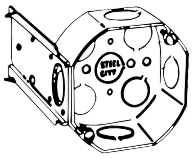
54151 3/4



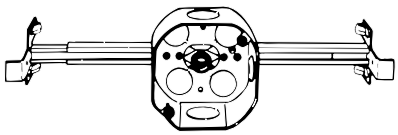
54151 1/2 & 3/4



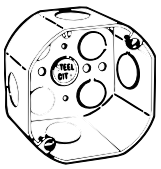
54151 V 1/2
V bracket recessed ½"



54151 L 1/2
L bracket flush mounted



54151 J 1/2 — Mounted on 6010-DW bar adjustable 10½" to 18½". Offset for ½", ¾" or ⅞" plaster. Maximum horizontal positioning. ⅜" fixture stud.



541711/2-25



54171 3/4



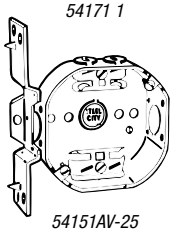
54171 1/2 3/4



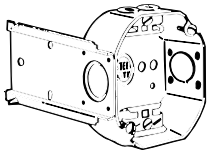
54171 1



54151 A



54151AV-25
V bracket recessed ½"



54151 AL
L bracket mounted flush

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | CLAMPS | BRKTS. | KNOCKOUTS (IN.) EA. SIDE CONDUIT | EA. END CONDUIT | EA. END CABLE | BOTTOM CONDUIT | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|
| ***With Non-Metallic Sheathed Cable Clamps*** | | | | | | | | | |
| **54151 N** | 1½ | 15.8 | C-5 | — | 1–½ | — | 2 | 1–½ | 50 |
| **54151 NE** | 1½ | 15.8 | C-5 | — | 1–½ | — | 2 | 1–½ | 50 |
| **54151 NL** | 1½ | 15.8 | C-5 | L | 1–½ | — | 2 | 1–½ | 50 |
| **54151 NV** | 1½ | 15.8 | C-5 | V | 1–½ | — | 2 | 1–½ | 50 |
| **54171N-25** | 2⅛ | 22.5 | C-5 | — | 1–½ | — | 2 | 1–½ | 50 |
| **54171 NL** | 2⅛ | 22.5 | C-5 | L | 1–½ | — | 2 | 1–½ | 50 |
| **54171NV-25** | 2⅛ | 22.5 | C-5 | V | 1–½ | — | 2 | 1–½ | 25 |
| ***With Conduit KOs*** | | | | | | | | | |
| **54151 1/2** | 1½ | 15.8 | — | — | 1–½ | 1–½ | — | 5–½ | 50 |
| **54151 3/4** | 1½ | 15.8 | — | — | 1–¾ | 1–¾ | — | 3–½<br>2–¾ | 50 |
| **54151 1/2 & 3/4** | 1½ | 15.8 | — | — | 1–½ | 1–¾ | — | 3–½<br>2–¾ | 50 |
| **54151 V 1/2** | 1½ | 15.8 | — | V | 1–½ | 1–½ | — | 5–½ | 25 |
| **54151 L 1/2** | 1½ | 15.8 | — | L | 1–½ | 1–½ | — | 5–½ | 25 |
| **54151 J 1/2** | 1½ | 15.8 | — | With bar hanger | 1–½ | 1–½ | — | 4–½ | 25 |
| **541711/2-25** | 2⅛ | 22.5 | — | 1–½" | 1–½ | — | 5–½ | 50 | — |
| **54171 3/4** | 2⅛ | 22.5 | — | 1–¾" | 1–¾ | — | 3–½ | 25<br>2–¾ | —<br>— |
| **54171 1/2 3/4** | 2⅛ | 22.5 | — | 1–½" | 1–¾ | — | 3–½ | 25<br>2–¾ | —<br>— |
| **54171 1** | 2⅛ | 22.5 | — | — | 1–1 | 1–1 | — | 3–½<br>2–¾ | 25 |
| ***With Armored Cable/Metal-Clad Clamps*** | | | | | | | | | |
| **54151 A** | 1½ | 15.8 | C-3 | — | 1–½ | — | 2 | 1–½ | 25 |
| **54151AV-25** | 1½ | 15.8 | C-3 | V | 1–½ | — | 2 | 1–½ | 50 |
| **54151 AL** | 1½ | 15.8 | C-3 | L | 1–½ | — | 2 | 1–½ | 25 |

*50 lb. maximum loading for fixtures.*

# Round/Octagon Boxes and Accessories

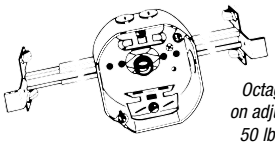
## 4" Octagon Boxes *(continued)*

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | BAR HANGER NUMBER | BAR LGTH. (IN.) | OFFSET FOR | STUD (IN.) | STD. CTN. |
|---|---|---|---|---|---|---|---|
| ***For Non-Metallic Sheathed Cable*** | | | | | | | |
| **54151 NF** | 1½ | 15.8 | 6010-DW | 10½–18½ | — | ⅜ | 25 |
| **54151 NO** | 1½ | 15.8 | 6010-ADW | 14½–26½ | — | ⅜ | 25 |
| **54151 NG** | 1½ | 15.8 | 6011-DW | 10½–18½ | — | Fastener | 25 |
| **54151 NP** | 1½ | 15.8 | 6011-ADW | 14½–26½ | — | Fastener | 25 |
| ***For Armored Cable/Metal Clad*** | | | | | | | |
| **54151 AF** | 1½ | 15.8 | 6010-DW | 10½–18½ | Drywall | ⅜ | 25 |

*50 lb. maximum loading for fixtures.*

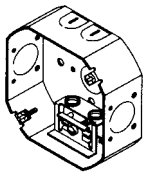


*54151 NF*
*Octagon box mounted on adjustable bar hanger. 50 lb. load max rating.*

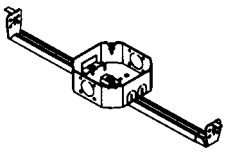


*54151 AF*
*Octagon box mounted on adjustable bar hanger. 50 lb. load max rating.*

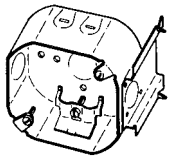
## 4" Octagon Boxes



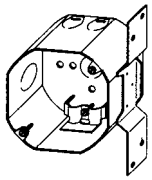
*4-0W-MXN*



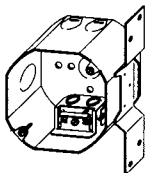
*4-0W-LC-BHC*



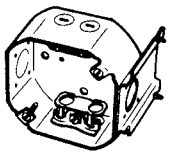
*4-0-ULC*



*4-0D-LCB*



*4-0D-FB-MXN*



*4-0D-U-MXN*

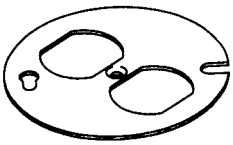
| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | DESCRIPTION | CONSTRUCTION TYPE | STD. CTN. |
|---|---|---|---|---|---|
| **4-0W-MXN** | 1½ | 15.5 | **For Metal-Clad Cable** Two Loom KOs in each of two opposite sides, one ½" KO in other two sides and one ½" KO in bottom. Two MXN clamps for MC, AC/BX and non-metallic sheathed cable (NM) included with 10/32 deep-slotted screws. Clamps are UL Listed for use with cable sizes 14/2 through 10/3 with ground* | Welded | 50 |
| **4-0W-LC-BHC** | 1½ | 15.5 | **For Non-Metallic Sheathed Cable** Two Loom KOs in each of two opposite sides, one ½" KO in other two sides. Box mounted with clip to adjustable hanger. Two Loom clamps for use on non-metallic sheathed cable with 10/32 deep-slotted screws assembled* | Welded | 25 |
| **4-0-ULC** | 1½ | 15.5 | **For Non-Metallic Sheathed Cable** Two Loom KOs in each of two opposite sides, ½" KOs in other two sides and one ½" KO in bottom. Two Loom clamps for use on non-metallic sheathed cable with 10/32 deep-slotted screws assembled. U bracket for overhead work* | Drawn | 50 |
| **4-0D-LCB** | 2⅛ | 21.5 | **For Non-Metallic Sheathed Cable** Two Loom KOs in each of two opposite sides, one ½" KO in side opposite bracket and one ½" KO in bottom. Two Loom clamps for use on non-metallic sheathed cable with 10/32 deep-slotted screws assembled. Flat bracket offset ½" from face* | Drawn | 25 |
| **4-0D-FB-MXN** | 2⅛ | 21.5 | **For Metal-Clad Cable** Two Loom KOs in each of two opposite sides, one ½" KO in side opposite bracket and one ½" KO in bottom. Two MXN clamps for MC, AC/BX and non-metallic sheathed cable (NM) included with 10/32 deep-slotted screws. Clamps are UL Listed for use with cable sizes 14/2 through 10/3 with ground. Flat bracket offset ½" from face* | Drawn | 25 |
| **4-0D-U-MXN** | 2⅛ | 21.5 | **For Metal-Clad Cable** Two Loom KOs in each of two opposite sides, one ½" KO in other two sides and one ½" KO in bottom. Two MXN clamps for MC, AC/BX and non-metallic sheathed cable (NM) included with 10/32 deep-slotted screws. Clamps are UL Listed for use with cable sizes 14/2 through 10/3 with ground. U bracket for overhead work* | Drawn | 25 |

**Uses Steel City® 4" octagonal extension rings and 500 series rings and covers. 50 lb. maximum loading for fixtures.*

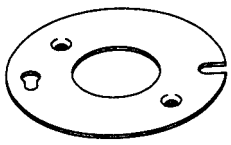
## 3" Octagon Box Covers

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **300-DR** | **Flat — 3½" diameter** For duplex receptacle in center. Screw-hole countersunk* | 25 |
| **300-SR** | **Flat — 3½" diameter** For single receptacle in center. Opening 1.4" in diameter. Screw-holes countersunk* | 25 |

**Fits any Steel City® 3" octagonal outlet box or extension ring.*



*300-DR*



*300-SR*



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# Round/Octagon Boxes and Accessories



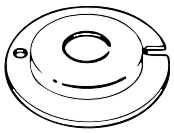
## 4" Round and Octagon Box Covers

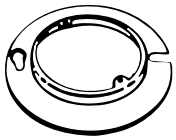
| CAT. NO. | RAISED (IN.) | DESCRIPTION | CU. IN. CAP. | STD. CTN. |
|---|---|---|---|---|
| **54 C 1** | — | Flat, blank | — | 50 |
| **54 C 6** | — | Flat, with ½" KO | — | 50 |
| **54 C 7** | ⅝ | With ½" KO | 3.5 | 25 |
| **54 C 3 1/2** | ½ | Center blanked with tapped ears on 2¾" centers | 3.0 | 25 |
| **54 C 3** | ⅝ | Center blanked with tapped ears on 2¾" centers | 3.5 | 25 |
| **54 C 3 1** | 1 | Center blanked with tapped ears 2²³⁄₃₂" centers | 5.8 | 25 |
| **54 C 3 1 1/4** | 1¼ | Center blanked with tapped ears on 2²³⁄₃₂" centers | 7.3 | 25 |
| **54 C 14** | ⅝ | For single device | 3.5 | 25 |
| **5401-LR** | — | Flat, center blanked for single receptacle — 1¹³⁄₃₂" dia. hole | — | 25 |
| **5402 LR** | — | Flat, center blanked for duplex receptacle | — | 25 |

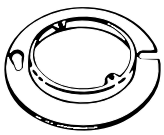
*For swivel covers, see accessories section on* ***page A-46****.*

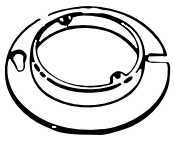

*54 C 1*

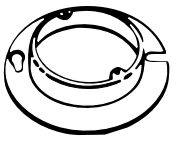

*54 C 6*


*54 C 7*

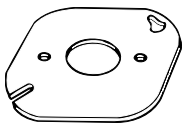

*54 C 3 1/2*


*54 C 3*


*54 C 3 1*


*54 C 3 1 1/4*


*54 C 14*


*5401-LR*


*5402 LR*

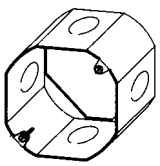
## 4" Octagon Box Extension Rings

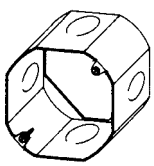

*551511/2-25*


*55151 1/2 3/4*

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | KNOCKOUTS (IN.) EA. SIDE CONDUIT | KNOCKOUTS (IN.) EA. END CONDUIT | STD. CTN. |
|---|---|---|---|---|---|
| ***With Conduit KOs*** | | | | | |
| **551511/2-25** | 1½ | 15.8 | 1–½ | 1–½ | 50 |
| **55151 1/2 3/4** | 1½ | 15.8 | 1–½ | 1–¾ | 25 |

## 4" Octagon Box Extension Rings

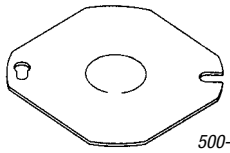

*4-OD-EXT-1/2*

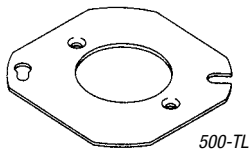

*4-OD-EXT-SPL*

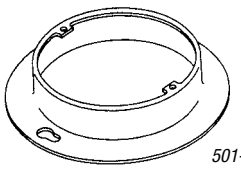
| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | DESCRIPTION | CONSTRUCTION TYPE | STD. CTN. |
|---|---|---|---|---|---|
| **4-OD-EXT-1/2** | 2⅛ | 21.5 | **Extension Ring** One ½" KO in each of four sides* | Drawn | 25 |
| **4-OD-EXT-SPL** | 2⅛ | 21.5 | **Extension Ring** One ½" KO in each of two opposite sides and one ¾" KO in other two sides* | Drawn | 25 |

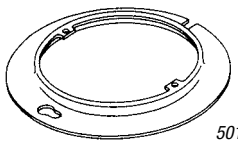
**Uses Steel City® 4" octagonal outlet boxes and 500 series rings and covers.*

## 4" Octagon Box Rings and Covers


*500-K-3/4*


*500-TL*


*501-CA*


*501-CS*

| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **500-K-3/4** | — | **Flat — 4" octagonal** One ¾" KO in center* | 50 |
| **500-TL** | — | **Flat — 4" octagonal** Four-wire twistlock in center. Screw holes countersunk. Opening 1.594" diameter* | 25 |
| **501-CA** | 4.5 | **¾" raised — 4" diameter** Open plaster ring with ears. Ears tapped ⁸⁄₃₂–2²³⁄₃₂" on centers. Special screw-lock feature in slots* | 25 |
| **501-CS** | 1.5 | **¼" raised — 4" diameter** Open plaster ring with ears. Ears tapped ⁸⁄₃₂–2²³⁄₃₂" on centers. Special screw-lock feature in slots* | 25 |

**Fits any Steel City® 4" octagonal outlet box or extension ring.*

## Ceiling Fan Boxes and Accessories

# Fan and Fixture Support

# Steel and Non-Metallic Boxes and Bar Hangers for Fan and Fixture Installation



Exhaustive research and development has resulted in an innovative line of Ceiling Fan Support Boxes that give Thomas & Betts the competitive advantage. Ceiling fan and fixture installation is faster, easier and safer with Steel City® Ceiling Fan Support Boxes.

- Gold finish on ears/screws easily identifies boxes as meeting UL and NEC® requirements for fan support
- UL Listed up to 50 lbs. for fixture and 35 lbs. for fan
- Each box comes complete with instructions and installation hardware



## Ceiling Fan and Light Fixture Bar Hanger

- Square end plates keep the bar parallel with sheetrock
- Square section tube is easy to grip, allowing high torque for safe installation
- UL Listed up to 50 lbs. for fixture and 35 lbs. for fan
- Expandable for joists spaced from 16 to 24 inches

Intended for retrofit installations, the unique design of the Old-Work Bar Hanger ensures a trouble-free installation that surpasses the competition.

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

| CAT. NO. | CAPACITY CU. IN. | DESCRIPTION | NEW/OLD WORK | STD. CTN. |
|---|---|---|---|---|
| **54151CFB-BHL-OW** | 15.8 | Old-Work Bar Hanger with 1½" deep ceiling fan box with 3 x ½" KOs and clamps for non-metallic sheathed cable | Old | 10 |

*Max. rec. loads 35 lbs. fan and 50 lbs. fixture.*

## Ceiling Fan Support Boxes

| CAT. NO. | CAPACITY CU. IN. | DESCRIPTION | DIMENSIONS (IN.) DIA. | DEPTH | NEW/OLD WORK | STD. CTN. |
|---|---|---|---|---|---|---|
| **56111-CFB** | 6.0 | Pan type ceiling fan box with 3 x ½" KOs and non-metallic sheathed cable connector | 4 | ½ | Both | 10 |
| **54151-CFB** | 15.8 | 1½" deep ceiling fan box with 3 x ½" KOs and clamps for non-metallic sheathed cable | 4 | 1½ | New | 10 |
| **54151-1/2-CFB-BP** | 15.8 | 1½" deep ceiling fan box with 5 x ½" KOs. Bulk pack | 4 | 1½ | New | 50 |
| **54171-CFB** | 22.0 | 2⅛" deep ceiling fan box with 3 x ½" KOs and clamps for non-metallic sheathed cable | 4 | 2⅛ | New | 10 |
| **54171-F-CFB*** | 22.0 | As 54171-CFB, but with "F" style mounting bracket | 4 | 2⅛ | New | 10 |
| **54171-1/2-F-CFB-BP** | 22.0 | 2⅛" deep ceiling fan box with 5 x ½" KOs and "F" style mounting bracket | 4 | 2⅛ | New | 50 |



*56111-CFB*



*54151-CFB*



*54171-CFB*



*54171-F-CFB*

| CAT. NO. | CLAMPS | EARS | BRKTS. | KNOCKOUTS (IN.) EA. SIDE CONDUIT | EA. END CONDUIT | EA. END CABLE | BOTTOM CONDUIT | STD. CTN. |
|---|---|---|---|---|---|---|---|---|
| **54541-CFB** | 2½" DP | — | Concrete ring | ½–¾ | — | — | — | 50 |
| **54551-CFB** | 3" DP | — | Concrete ring | ½–¾ | — | — | — | 50 |

*Max. loads 35 lbs. fan and 50 lbs. fixture.*

*Cover — CBP or CBP-3/8. 35# fan rating, 50# fixture rated.*

** Maximum load for 54171-F-CFB is 70 lbs. fan and 200 lbs. fixture.*



*54551-CFB*



*54541-CFB*



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# Extra Heavy-Duty New-Work Bar Hangers

## Ceiling Fan and Light Fixture Bar Hangers

This innovative extruded-aluminum bar hanger was designed for strength. It is UL Listed for up to 70 lbs. for fan support and an industry-leading 200 lbs. for fixture support

- Gold end plates easily identify the hanger as meeting UL and NEC® requirements for fan support
- Screwed-on end plates are consistently strong and avoid unsightly welds
- End plates feature temporary fixing spikes for hands-free installation
- Expandable for joists spaced from 16 to 24 inches





*56111CFB-BHL*



*54151CFB-BHL*



*4070CFB-BHL*



*CFB-BHL*

| CAT. NO. | CAPACITY CU. IN. | DESCRIPTION | MAX. REC. LOAD FAN | MAX. REC. LOAD FIXTURE | NEW/OLD WORK | STD. CTN. |
|---|---|---|---|---|---|---|
| **56111CFB-BHL** | 6.0 | New-work bar hanger with ½" pan-type ceiling fan box with 3 x ½" KOs and non-metallic sheathed cable connector | 70 lbs. | 200 lbs. | New | 10 |
| **54151CFB-BHL** | 15.8 | New-work bar hanger with 1½" deep ceiling fan box with 3 x ½" KOs and clamps for non-metallic sheathed cable | 70 lbs. | 200 lbs. | New | 10 |
| **4070CFB-BHL** | 21.5 | New-work bar hanger with non-metallic ceiling fan box with clamps for non-metallic sheathed cable | 35 lbs. | 50 lbs. | New | 10 |
| **CFB-BHL** | * | New-work bar hanger without outlet box. Mounting bracket for outlet box included | — | * | New | 10 |

** Dependent on box used.*

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

## Square Boxes and Accessories

### Easy to identify and install!

# Fire Alarm Boxes and Fittings

**Bright Red Finish**

Steel City® Fire Alarm Boxes and Fittings can meet all of your visual identification requirements for fire alarm systems — and make installation and upgrades faster and easier than ever before! Available in a variety of sizes to accommodate new or old work configurations, these boxes are simple to install with high-quality Thomas & Betts fittings. Plus, the bright red finish eliminates time-consuming painting of existing fixtures and provides long-lasting identification in even the harshest environments.



*52171-1234RD*



*72171-1234RD*



*52171-EXTRD*



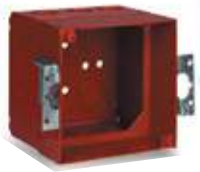
*52-C-1RD*



*52151-1234RD*



*52171-CV-1234RD*



*52171-EXTOWRD*



*53171-1234RD*

### Fire Alarm Boxes

| CAT. NO. | DESCRIPTION | EARS | BRACKETS | EACH SIDE CONDUIT | EACH END CONDUIT | BOTTOM CONDUIT | CU. IN. CAPACITY | STD. CTN. |
|---|---|---|---|---|---|---|---|---|
| **52171-1234RD** | 2⅛"-deep 4"-square red box | — | — | 2½", 1½" & ¾"E | 2½", 1½" & ¾"E | 3½", 2½" & ¾"E | 30.3 | 50 |
| **52151-1234RD** | 1½"-deep 4"-square drawn red box | — | — | 2½", 1¾" | 2½", 1¾" | 3½", 2¾" | 21.0 | 50 |
| **72171-1234RD** | 2⅛"-deep 4 11/16" red box | — | — | 3½" & ¾"E | 3½" & ¾"E | 3½", 2½" & ¾"E | 42.0 | 20 |
| **52171-CV-1234RD** | 2⅛"-deep 4"-square red box with CV bracket | — | CV | 2½", 1½" & ¾"E | 2½", 1½" & ¾"E | 3½", 2½" & ¾"E | 30.3 | 50 |
| **52171-EXTRD** | 2⅛"-deep 4"-square red box with ext. ring | — | — | 4½", 2½" & ¾"E | 4½", 2½" & ¾"E | 3½", 2½" & ¾"E | 60.6 | 25 |
| **52171-EXTOWRD** | 2⅛"-deep 4"-square red box with ext. ring and old work ears | Yes | — | 4½", 2½" & ¾"E | 4½", 2½" & ¾"E | 3½", 2½" & ¾"E | 60.6 | 25 |
| **52 C 1RD** | Flat 4"-square red cover | — | — | — | — | — | — | 100 |
| **53171-1234RD** | 2⅛"-deep 4"-square red extension ring | — | — | 2½", 1½" & ¾"E | 2½", 1½" & ¾"E | — | 30.3 | 25 |
| **521911234RD** | 3½"-deep 4"-square red box | — | — | 4 x ½" & ¾" Combo | 2 x ½" & ¾" Combo | 4 x ½" & ¾" Combo | 46 | 24 |
| **521911234CVRD** | 3½"-deep 4"-square red box w/side mounting bracket | — | CV | 4 x ½" & ¾" Combo | 2 x ½" & ¾" Combo | 4 x ½" & ¾" Combo | 46 | 10 |

### Fire Alarm Fittings

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **TC121A-FA** | ½" Red Steel EMT Set Screw Connector | 50 |
| **TC122A-FA** | ¾" Red Steel EMT Set Screw Connector | 50 |
| **TC123A-FA** | 1" Red Steel EMT Set Screw Connector | 25 |
| **TC721A-FA** | ½" Red Insulated Steel EMT Set Screw Connector | 50 |
| **TC722A-FA** | ¾" Red Insulated Steel EMT Set Screw Connector | 50 |
| **TC723A-FA** | 1" Red Insulated Steel EMT Set Screw Connector | 25 |
| **TK121A-FA** | ½" Red Steel EMT Set Screw Coupling | 50 |
| **TK122A-FA** | ¾" Red Steel EMT Set Screw Coupling | 50 |
| **TK123A-FA** | 1" Red Steel EMT Set Screw Coupling | 25 |



*TK122A-FA*



*TC122A-FA*



*TK121A-FA*



*TC121A-FA*



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# Square Boxes and Accessories

## 4" Square Old-Work Box with Swing Ears

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **52171-OW** | Metallic 4"-Sq. x 2⅛"D Old-Work Box with factory-mounted swing ears | 25 |
| **OW SWING EAR** | Swing Ears only (for field installation) with self-threading screws | 50 (25 pair) |

## 4" Square Boxes

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | CLAMPS | BRKTS. | KNOCKOUTS (IN.) EA. SIDE CONDUIT | EA. END CONDUIT | BOTTOM CONDUIT | STD. CTN. |
|---|---|---|---|---|---|---|---|---|
| ***With Non-Metallic Sheathed Cable Clamps*** | | | | | | | | |
| **52151 N** | 1½ | 21.0 | C-5 | — | 2–½, 1–½, ¾E | 2 | 1–½ | 50 |
| **52151 MS N*** | 1½ | 21.0 | C-5 | MS | 2–½, 1–½, ¾E | 2 | 1–½ | 25 |
| **52151 BN*** | 1½ | 21.0 | C-5 | B | 2–½, 1–½, ¾E | 2 | 1–½ | 25 |
| **52151 VN*** | 1½ | 21.0 | C-5 | SV | 2–½, 1–½, ¾E | 2 | 1–½ | 25 |
| **52151 CVN*** | 1½ | 21.0 | C-5 | CV | 2–½, 1–½, ¾E | 2 | 1–½ | 25 |
| **52151CVNP*** | 1½ | 21.0 | C-5 | CV | 2–½, 1–½, ¾E | 2 | 1–½ | 25 |
| **52171 N** | 2⅛ | 30.3 | C-5 | — | 2–½, 1–½, ¾E | 2 | 1–½ | 25 |
| **52171-VN*** | 2⅛ | 30.3 | C-5 | SV | 2–½, 1–½, ¾E | 2 | 1–½ | 25 |
| ***With Conduit KOs*** | | | | | | | | |
| **52141-1/2** | 1¼ | 18.0 | — | — | 2–½ | 3–½ | 5–½ | 50 |
| **52151 1/2** | 1½ | 21.0 | — | — | 3–½ | 3–½ | 5–½ | 50 |
| **52151-3/4** | 1½ | 21.0 | — | — | 2–¾ | 2–¾ | 3–½, 2–¾ | 50 |
| **52151 1/2 3/4** | 1½ | 21.0 | — | — | 2–½, 1–¾ | 2–½, 1–¾ | 3–½, 2–¾ | 50 |
| **521511234P** | 1½ | 21.0 | — | — | 2–½, 1–¾ | 2–½, 1–¾ | 3–½, 2–¾ | 50 |
| **52151-3/4-W** | 1½ | 21.0 | — | — | 2–¾ | 2–¾ | 3–½, 2–¾ | 50 |
| **52151B1234*** | 1½ | 21.0 | — | B | 2–½, 1–½, ¾E | 2–½, 1–¾, ¾E | 3–½, 2–½, ¾E | 25 |
| **52151-1/2 & 3/4-EW** | 1½ | 21.0 | — | — | 2–½, 1–½, ¾E | 2–½, 1–½, ¾E | 3–½, 2–½, ¾E | 50 |
| **521511234EWGB** (Ground bump) | 1½ | 21.0 | — | — | 2–½, 1–½, ¾E | 2–½, 1–½, ¾E | 2–½, 2–½, ¾E | 50 |
| **521511234EWGBP** (Ground bump with 10½" ground wire) | 1½ | 21.0 | — | — | 2–½, 1–½, ¾E | 2–½, 1–½, ¾E | 2–½, 2–½, ¾E | 50 |

** All Bracketed boxes come complete with eccentric knockouts.*

*Per UL 514A, suitable for use without a bonding jumper in circuits above or below 250 volts. Pigtail wire is #12 AWG insulated, 10½" long.*



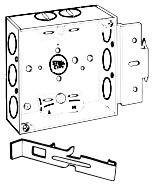
*52171-OW*



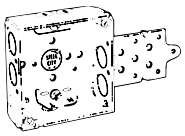
*OW Swing Ears*



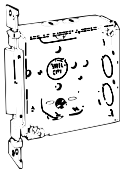
*52151 N*



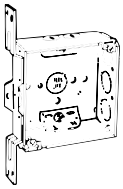
*52151 MS N* MS bracket for 1⅜", 2½", 3⅝", 4"*



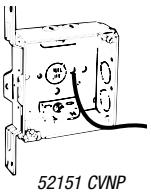
*52151 BN* B bracket mounted flush*



*52151 VN* SV bracket mounted flush*



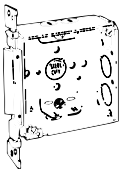
*52151 CVN* CV bracket mounted flush*



*52151 CVNP*



*52171 N*



*52171-VN* SV bracket mounted flush*



*52141-1/2*



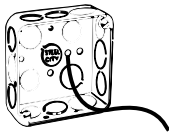
*52151 1/2*



*52151-3/4*



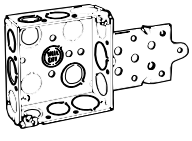
*52151 1/2 3/4*



*521511234P*



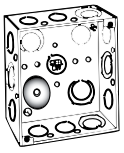
*52151-3/4-W*



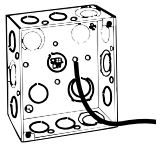
*52151B1234 B Bracket mounted flush*



*52151-1/2 & 3/4-EW*



*521511234EWGB*

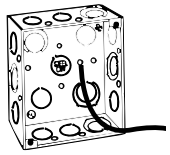


*521511234EWGBP*

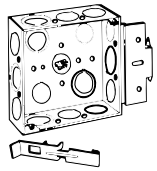
# 4" Square Boxes *(continued)*

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | CLAMPS | BRKTS. | KNOCKOUTS (IN.) EA. SIDE CONDUIT | EA. END CONDUIT | BOTTOM CONDUIT | STD. CTN. |
|---|---|---|---|---|---|---|---|---|
| ***With Conduit KOs (continued)*** | | | | | | | | |
| **521511234EWP*** | 1½ | 21.0 | — | — | 2–½, 1–½, ¾E | 2–½, 1–½, ¾E | 3–½, 2–½, ¾E | 50 |
| **52151 MS 1/2 & 3/4*** | 1½ | 21.0 | — | MS | 2–½, 1–½, ¾E | 2–½, 1–¾, ¾E | 3–½, 2–½, ¾E | 25 |
| **52151-V-1/2 & 3/4*** | 1½ | 21.0 | — | SV | 2–½, 1–½, ¾E | 2–½, 1–¾, ¾E | 3–½, 2–½, ¾E | 25 |
| **52151 CV 3/4*** | 1½ | 21.0 | — | CV | 2–¾ | 2–3/4 | 3–½ | 25 |
| **52151 CV 1/2 3/4*** | 1½ | 21.0 | — | CV | 2–½, 1–½, ¾E | 2–½, 1–¾, ¾E | 3–½, 2–½, ¾E | 25 |
| **52151DV12*** | 1½ | 21.0 | — | DV | 2–½, ¾E | 3–½, ¾E | 3–½, ¾E | 25 |
| **521711234E** | 2⅛ | 30.3 | — | — | 2–½, 1–½, ¾E | 2–½, 1–½, ¾E | 3–½, 2–½, ¾E | 50 |
| **521711234EP** (With 10½" ground wire) | 2⅛ | 30.3 | — | — | 2–½, 1–½, ¾E | 2–½, 1–½, ¾E | 2–½, 2–½, ¾E | 50 |
| **52171 MS 1/2 3/4*** | 2⅛ | 30.3 | — | MS | 2–½, 1–½, ¾E | 2–½, 1–½, ¾E | 3–½, 2–½, ¾E | 25 |
| **52171MSP*** (With 10½" ground wire) | 2⅛ | 30.3 | — | MS | 2–½, 1–½, ¾E | 2–½, 1–½, ¾E | 3–½, 2–½, ¾E | 25 |
| **52171 3/4** | 2⅛ | 30.03 | — | — | 2–¾ | 2–¾ | 3–½, 2–¾ | 50 |
| **52171 1** | 2⅛ | 30.03 | — | — | 2–1 | 2–1 | 3–½, 2–¾ | 50 |
| **52171 V 1/2 & 3/4*** | 2⅛ | 30.03 | — | SV | 2–½, 1–½, ¾E | 2–½, 1–½, ¾E | 3–½, 2–½, ¾E | 25 |
| **52171-CV-1/2 & 3/4*** | 2⅛ | 30.03 | — | CV | 2–½, 1–½, ¾E | 2–½, 1–½, ¾E | 3–½, 2–½, ¾E | 25 |
| **52171-EW-SSX*** | 2⅛ | 30.03 | — | SSX | — | — | — | — |
| **521711234EP*** | 2⅛ | 30.03 | — | v | 2–½, 1–½, ¾E | 2–½, 1–½, ¾E | 3–½, 2–½, ¾E | 25 |
| **52171-B-1/2 & 3/4** | 2⅛ | 30.03 | — | — | 2–½, 1–½, ¾E | 2–½, 1–½, ¾E | 3–½, 2–½, ¾E | 25 |

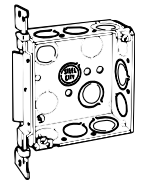
** All bracketed boxes come complete with eccentric knockouts.*
*Per UL514A, suitable for use without a bonding jumper in circuits above or below 250 volts. Pigtail wire is #12 AWG insulated, 10½" long.*



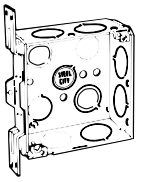
*521511234EWP*



*52151 MS 1/2 & 3/4*
*For use on 1⅝", 2½", 3⅝", 4" studs*



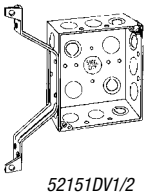
*52151-V-1/2 & 3/4*
*SV Bracket mounted flush*



*52151 CV 3/4*
*CV Bracket mounted flush*



*52151 CV 1/2 3/4*
*CV Bracket mounted flush*



*52151DV1/2*
*DV Bracket provides offset*



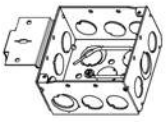
*521711234E*



*521711234EP*



*52171 MS 1/2 3/4**
*MS bracket for 11⅝", 2½", 3⅝", 4", 6" metal studs*



*52171MSP*



*52171 3/4*



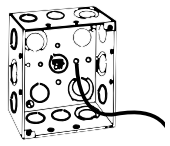
*52171 1*



*52171 V 1/2 & 3/4*
*SV bracket mounted flush*



*52171-CV-1/2 & 3/4*
*CV bracket mounted flush*



*521711234EP*

| CAT. NO. | DESCRIPTION | EARS | BRACKETS | EACH SIDE KO | EACH END KO | BOTTOM KO | CU. IN. CAPACITY | STD. CTN. |
|---|---|---|---|---|---|---|---|---|
| **521911234** | 3½"-deep 4"-square red box | — | — | 4 x ½" & ¾" Combo | 2 x ½" & ¾" Combo | 4 x ½" & ¾" Combo | 46 | 24 |
| **521911234CV** | 3½"-deep 4"-square red box w/side mounting bracket | — | CV | 4 x ½" & ¾" Combo | 2 x ½" & ¾" Combo | 4 x ½" & ¾" Combo | 46 | 10 |



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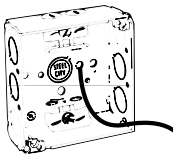
## 4" Square Boxes *(continued)*

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | CLAMPS | BRKTS. | KNOCKOUTS (IN.) EA. SIDE CONDUIT | EA. END CONDUIT | BOTTOM CONDUIT | STD. CTN. |
|---|---|---|---|---|---|---|---|---|
| ***With Armored Cable/Metal-Clad Clamps*** | | | | | | | | |
| **52151 X** | 1¼ | 21.0 | C-3 | — | 2–½, 1–½, ¾E | 2 | 1–½ | 50 |
| **52151XP** | 1¼ | 21.0 | C-3 | — | 2–½, 1–½, ¾E | 2 | 1–½ | 50 |
| **52151 BX*** | 1¼ | 21.0 | C-3 | B | 2–½, 1–½, ¾E | 2 | 1–½ | 25 |
| **52151 VX*** | 1¼ | 21.0 | C-3 | SV | 2–½, 1–½, ¾E | 2 | 1–½ | 25 |
| **52151 CVX*** | 1¼ | 21.0 | C-3 | CV | 2–½, 1–½, ¾E | 2 | 1–½ | 25 |
| **52151 MS X*** | 1¼ | 21.0 | C-3 | MS | 2–½, 1–½, ¾E | 2 | 1–½ | 25 |
| ***For Armored Cable and Metal-Clad Cable Clamps*** | | | | | | | | |
| **52171 X*** | 2⅛ | 30.3 | C-3 | — | 2–½, 1–½, ¾E | 2 | 1–½ | 25 |
| **52171 MSX*** | 2⅛ | 30.3 | C-3 | MS | 2–½, 1–½, ¾E | 2 | 1–½ | 25 |
| **52171MSXP** (With 10½" ground wire) | 2⅛ | 30.3 | C-3 | MS | 2–½, 1–½, ¾E | 2 | 1–½ | 25 |
| **52171-CVX*** | 2⅛ | 30.3 | C-3 | CV-2 | ½ –¾ | — | — | 25 |

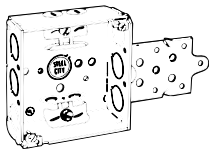
** All bracketed boxes come complete with eccentric knockouts.*
*Per UL514A, suitable for use without a bonding jumper in circuits above or below 250 volts. Pigtail wire is #12 AWG insulated, 10½" long.*
*All 52171 series boxes have a raised ground bump.*



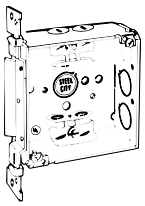
*52151 X*



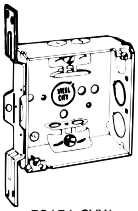
*52151XP*



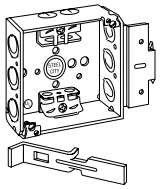
*52151 BX* B bracket mounted flush*



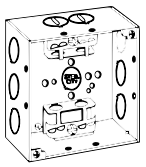
*52151 VX* SV bracket mounted flush*



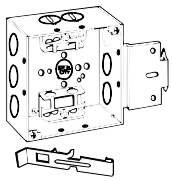
*52151 CVX* CV bracket mounted flush*



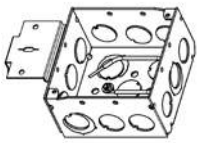
*52151 MS X* MS bracket for 1⅝", 2½", 3⅝", 4" metal studs*



*52171 X*



*52171 MSX* MS bracket for 1⅝", 2½", 3⅝", 4" metal studs*



*52171MSXP**

| CAT. NO. | DESCRIPTION | CLAMPS | EACH SIDE CONDUIT | EACH END CONDUIT | BOTTOM CONDUIT | CU. IN. CAPACITY | STD. PACK. |
|---|---|---|---|---|---|---|---|
| **52171-EW-SSX** | 2⅛"-deep with conduit KOs | — | 1½", 1½" & ¾"E | 2½", 1½" & ¾"E | 2½", 2½" & ¾"E | 30 | 20 |
| **52151-EF-SSX** | 1½"-deep with conduit KOs | — | 1½", 1½" & ¾"E | 2½", 1½" & ¾"E | 2½", 2½" & ¾"E | 21 | 20 |
| **52171-X-SSX** | 2⅛"-deep with armored cable clamps | C3 | 1½", 1½" & ¾"E | 2 Cable | 1½" | 30 | 20 |
| **52151-X-SSX** | 1½"-deep with armored cable clamps | C3 | 1½", 1½" & ¾"E | 2 Cable | 1½" | 21 | 20 |
| **CXLESSX** | 3½"-deep with armored cable clamps | C3 | 2½" | 1½" & 2 Cable | 1½" | 15 | 20 |

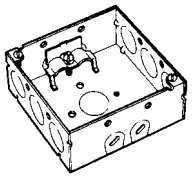
## Vapor Tite Boxes

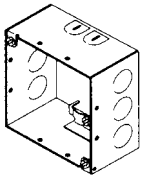
- All K.O.'s pressed flush but still easy to remove
- No holes anywhere
- Top edge of boxes are flush at ears so gasket seals out all air

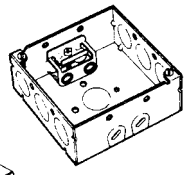
| CAT. NO. | DESCRIPTION | DEPTH | STD. PKG. |
|---|---|---|---|
| **52151-SVT** | 4" Sq. Box, ½" and ¾" K.O. Side and Bottom | 1½" | 50 |
| **52C1-VT** | 4" Sq. Blank Cover with Gasket | Flat | 50 |
| **52171-SVT** | 4" Sq. Box, ½" and ¾" K.O. Side and Bottom | 2⅛" | 25 |
| **72C1-VT** | 4¹¹⁄₁₆" Sq. Blank Cover with Gasket | Flat | 50 |
| **72171-SVT** | 4¹¹⁄₁₆" Sq. Box, ½" and ¾" K.O. Side and Bottom | 2⅛" | 25 |
| **54151-VT** | 4" Sq. Box, ½" K.O. Side and Bottom | 1½" | 50 |
| **54C1-VT** | 4" Oct. and Round Box Blank Cover | Flat | 50 |

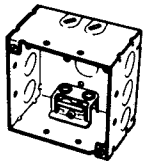
# Square Boxes and Accessories

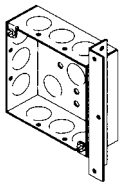
## 4" Square Boxes

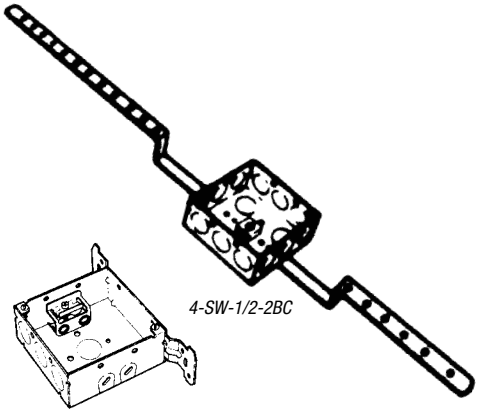

4-SW-LC


4-SDW-LC


4-SW-MXN


4-SDW-MXN


4-SW-AB-1/2


4-SW-1/2-2BC


4-SDW-FB-MXN

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | DESCRIPTION | CONSTRUCTION TYPE | STD. CTN. |
|---|---|---|---|---|---|
| **4-SW-LC** | 1½ | 21.0 | **For Non-Metallic Sheathed Cable**<br>Two Loom KOs in each of two opposite sides, three ½" KOs in other two sides and one ½" KO in bottom.<br>Two Loom clamps for use on non-metallic sheathed cable with 10/32 deep-slotted screws assembled* | Welded | 50 |
| **4-SW-MXN** | 1½ | 21.0 | **For Metal-Clad Cable**<br>Two Loom KOs in each of two opposite sides, three ½" KOs in other two sides and one ½" KO in bottom. Two MXN clamps for MC, AC/BX and non-metallic sheathed cable (NM) included with 10/32 deep-slotted screws. Clamps are UL Listed for use with cable sizes 14/2 through 10/3 with ground* | Welded | 50 |
| **4-SW-AB-1/2** | 1½ | 21.0 | Three KOs in each of three sides, angle bracket on other side, and five ½" KOs in bottom.<br>Angle bracket offset 9/16" from top of box* | Welded | 50 |
| **4-SW-1/2-2BC** | 1½ | 21.0 | Three ½" KOs in each side and four ½" KOs in bottom. Mounted with clip on 2-BC bar hanger.<br>Hanger is offset correct depth to set box flush with ceiling joist* | Welded | 25 |
| **4-SDW-LC** | 2⅛ | 30.3 | **For Non-Metallic Sheathed Cable**<br>Two Loom KOs in each of two opposite sides, three ½" KOs in other two sides and one ½" KO in bottom.<br>Two Loom clamps for use on non-metallic sheathed cable with 10/32 deep-slotted screws assembled* | Welded | 25 |
| **4-SDW-MXN** | 2⅛ | 30.3 | **For Metal-Clad Cable**<br>Two Loom KOs in each of two opposite sides, three ½" KOs in other two sides and one ½" KO in bottom. Two MXN clamps for MC, AC/BX and non-metallic sheathed cable (NM) included with 10/32 deep-slotted screws. Clamps are UL Listed for use with cable sizes 14/2 through 10/3 with ground* | Welded | 25 |
| **4-SDW-FB-MXN** | 2⅛ | 30.3 | **For Metal-Clad Cable**<br>Two Loom KOs in each of two opposite sides, three ½" KOs in side opposite flat bracket and one ½" KO in bottom.<br>Two MXN clamps for MC, AC/BX and non-metallic sheathed cable (NM) included with 10/32 deep-slotted screws.<br>Clamps are UL Listed for use with cable sizes 14/2 through 10/3 with ground* | Welded | 25 |

**Uses Steel City® 4" square extension rings and 400 series rings and covers.*

## 4" Square Thru-Wall Box


X1-1/2 & 3/4

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | KNOCKOUT (IN.) EA. SIDE CONDUIT | KNOCKOUT (IN.) EA. END CONDUIT | STD. CTN. |
|---|---|---|---|---|---|
| ***With Conduit KOs*** | | | | | |
| **X1-1/2 & 3/4** | 1⅛ | 21.0 | 2–½, 1–¾ | 2–½, 1–¾ | 25 |

## 4" Square Two-Device Boxes


2G4D 1/2 & 3/4


2G4DV 1/2 & 3/4
CV bracket recessed 7/8"

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | BRACKETS | KNOCKOUTS (IN.) EA. SIDE CONDUIT | KNOCKOUTS (IN.) EA. END CONDUIT | KNOCKOUTS (IN.) BOTTOM CONDUIT | STD. CTN. |
|---|---|---|---|---|---|---|---|
| ***With Conduit KOs*** | | | | | | | |
| **2G4D 1/2 & 3/4** | 2⅛ | 30.3 | — | 2–½, 1–¾ | 2–½, 1–¾ | 3–½, 2–¾ | 25 |
| **2G4DV 1/2 & 3/4** | 2⅛ | 30.3 | CV | 2–½, 1–¾ | 2–½, 1–¾ | 3–½, 2–¾ | 25 |



Thomas&Betts

**United States**
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

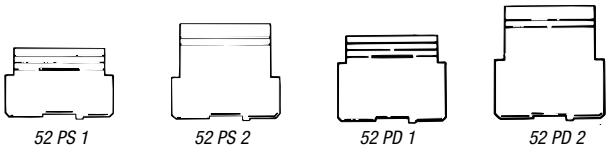
**Technical Services**
Tel: 888.862.3289

www.tnb.com

# Square Boxes and Accessories



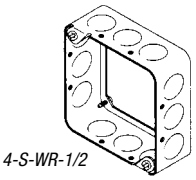
## 4" Square Box Partitions



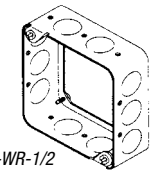
52 PS 1 | 52 PS 2 | 52 PD 1 | 52 PD 2

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| ***For 1½" Deep Box with Square-Cut Tile Wall Two-Device Covers*** | | |
| **52 PS 1** | For ½", ¾" and 1" raised covers | 25 |
| **52 PS 2** | For 1¼", 1½" and 2" raised covers | 25 |
| ***For 2⅛" Deep Box with Square-Cut Tile Wall Two-Device Covers*** | | |
| **52 PD 1** | For ½", ¾" and 1" raised covers | 25 |
| **52 PD 2** | For 1¼", 1½" and 2" raised covers | 25 |

## 4" Square Wall Rings



4-S-WR-1/2

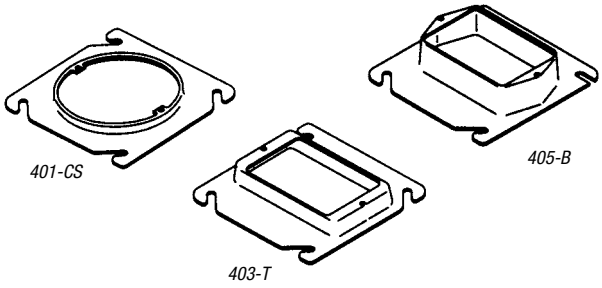


4-SS-WR-1/2

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | DESCRIPTION | CONSTRUCTION TYPE | STD. CTN. |
|---|---|---|---|---|---|
| **4-S-WR-1/2** | 1½ | 21.0 | **Wall Ring** Three ½" KOs in each side. Four 8/32 screws furnished (two in top and two in bottom)* | Drawn | 50 |
| **4-SS-WR-1/2** | 1½ | 18.0 | **Wall Ring** Three ½" KOs in each of two opposite sides, two ½" KOs in other two sides. Four 8/32 screws furnished (two in top and two in bottom)** | Drawn | 50 |

**For use with two Steel City® 403-O rings for back to back devices in 2" partitions.*
***For use with two Steel City® 403-O rings for back to back devices in 1¾" partitions*

## 4" Square Rings and Covers

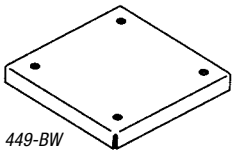


401-CS | 405-B | 403-T

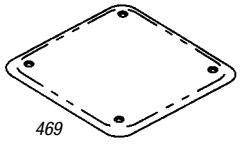
| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **401-CS** | 1.0 | **¼" raised — 4" square** Open plaster ring with ears. Ears tapped 8/32–2$^{23}/_{32}$" on centers. Special screw lock feature in slots* | 25 |
| **403-T** | 3.5 | **Tile Ring, ½" raised — 4" square** For single switch or receptacle. Ears tapped 8/32–2$^{23}/_{32}$" on centers* | 50 |
| **405-B** | 5.0 | **⅞" raised — 4" square** For single switch or receptacle* | 25 |

**Fits any Steel City® 4" square outlet box or extension ring.*

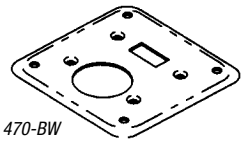
## 4" Square Industrial Device Covers



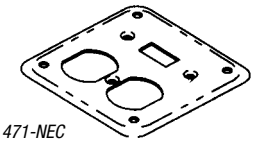
449-BW



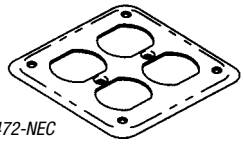
469



470-BW



471-NEC



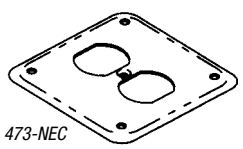
472-NEC

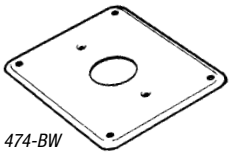
| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **449-BW** | **½" raised — 4" square** Surface blank. Each cover individually packaged with the necessary screws for mounting* | 25 |
| **469** | **⅛" raised — 4" square** Surface blank. Each cover individually packaged with the necessary mounting screws* | 25 |
| **470-BW** | **⅛" raised — 4" square** For one toggle switch and one single receptacle. Opening 1.4" diameter. Each cover individually packaged with the necessary mounting screws* | 25 |
| **471-NEC** | **⅛" raised — 4" square** For one toggle switch and one duplex receptacle. Each cover individually packaged with the necessary mounting screws* | 25 |
| **472-NEC** | **⅛" raised — 4" square** For two duplex receptacles. Each cover individually packaged with the necessary mounting screws* | 25 |

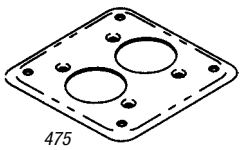
**Fits any Steel City® 4" square outlet box or extension ring.*

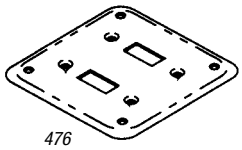
## Square Boxes and Accessories

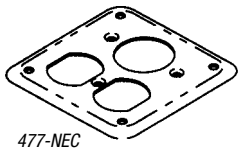
# 4" Square Industrial Device Covers *(continued)*

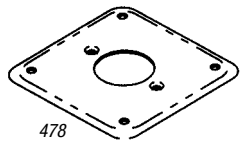

473-NEC

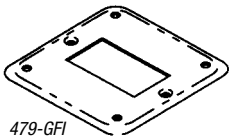

474-BW

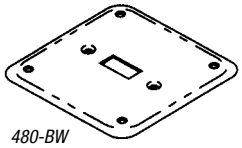

475

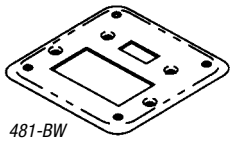

476

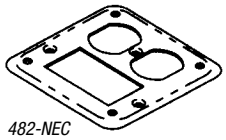

477-NEC


478


479-GFI


480-BW


481-BW


482-NEC

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **473-NEC** | **⅛" raised — 4" square**<br>For one duplex receptacle in center. Each cover individually packaged with the necessary mounting screws* | 25 |
| **474-BW** | **⅛" raised — 4" square**<br>For one single receptacle in center. Opening 1.4" diameter. Each cover individually packaged with the necessary mounting screws* | 25 |
| **475** | **⅛" raised — 4" square**<br>For two single receptacles. Openings 1.4" diameter. Each cover individually packaged with the necessary mounting screws* | 25 |
| **476** | **⅛" raised — 4" square**<br>For two toggle switches. Each cover individually packaged with the necessary mounting screws* | 25 |
| **477-NEC** | **⅛" raised — 4" square**<br>For one duplex and one single receptacle. Opening 1.4" diameter. Each cover individually packaged with the necessary mounting screws* | 25 |
| **478** | **⅛" raised — 4" square**<br>For one four-wire twist lock receptacle in center. Opening 1.594" diameter. Each cover individually packaged with the necessary mounting screws* | 25 |
| **479-GFI** | **⅛" raised — 4" square**<br>For one GFI receptacle in center. Each cover individually packaged with the necessary mounting screws* | 25 |
| **480-BW** | **⅛" raised — 4" square**<br>For one toggle switch in center. Each cover individually packaged with the necessary mounting screws* | 25 |
| **481-BW** | **⅛" raised — 4" square**<br>For one GFI receptacle and one toggle switch. Each cover individually packaged with the necessary mounting screws* | 25 |
| **482-NEC** | **⅛" raised — 4" square**<br>For one GFI and one duplex receptacle. Each cover individually packaged with the necessary mounting screws* | 25 |

**Fits any Steel City® 4" square outlet box or extension ring.*

# 4" Square Extension Rings


53151 1/2 3/4


531511234UB**


53151 1/2


53151 3/4


531711234**


53171 1

| CAT. NO. | KNOCKOUTS (IN.) EA. SIDE CONDUIT | EA. END CONDUIT | STD. CTN. |
|---|---|---|---|
| ***1½" Deep — with Conduit KOs — 21.0 Cubic Inch Capacity*** | | | |
| **53151 1/2** | 3–½ | 3–½ | 50 |
| **53151 3/4** | 2–¾ | 2–¾ | 25 |
| **53151 1/2 3/4** | 2–½, 1–¾ | 2–½, 1–¾ | 50 |
| **531511234UB**** | 2–½, 1–½, ¾E | 2–½ | 50 |
| ***2⅛" Deep — with Conduit KOs — 30.3 Cubic Inch Capacity*** | | | |
| **531711234*** | 2–½, 1–½, ¾E | 2–½, 1–¾ | 25 |
| **53171 1** | 2–1 | 2–1 | 25 |

** Per UL 514-A, suitable for use without a bonding jumper in circuits above or below 250 volts.*

*** ECC, KOs on sides.*



Thomas&Betts

**United States**
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

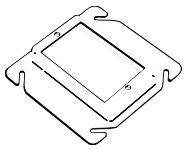
**Technical Services**
Tel: 888.862.3289

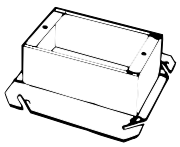
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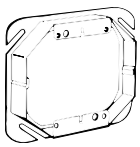
# Square Boxes and Accessories



## 4" Square-Cut Tile Wall Covers


52 C 49 1/2


52C5011/2-25

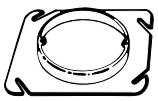

52 C 52 1/2

| CAT. NO. | RAISED (IN.) | DESCRIPTION | CU. IN. CAP. | STD. CTN. |
|---|---|---|---|---|
| ***For Single Device — Steel*** | | | | |
| **52 C 49 1/2*** | ½ | — | 3.5 | 50 |
| **52-C-49-3/4*** | ¾ | — | 5.3 | 50 |
| **52-C-49-1*** | 1 | — | 7.0 | 10 |
| **52-C-49-1-1/4** | 1¼ | — | 9.3 | 10 |
| **52C5011/2-25** | 1½ | — | 11.0 | 25 |
| **52C512-25** | 2 | — | 14.8 | 25 |
| ***For Two Devices — Steel*** | | | | |
| **52 C 52 1/2** | ½ | Square corners facilitate tile installation | 6.0 | 10 |
| **52-C-52-3/4** | ¼ | | 9.0 | 10 |
| **52-C-52-1** | 1 | | 12.5 | 10 |
| **52-C-52-1-1/4** | 1¾ | | 15.5 | 10 |
| **52 C 53 1 1/2** | 1½ | | 19.0 | 10 |
| **52 C 54 2** | $2\frac{35}{64}$ | | 25.5 | 10 |

** Drawn style.*

## 4" Square Covers


52 C 1


52 C 3 1


52 C 6

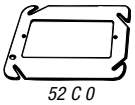
| CAT. NO. | RAISED (IN.) | DESCRIPTION | CU. IN. CAP. | STD. CTN. |
|---|---|---|---|---|
| **52 C 1** | — | Flat, blank | — | 100 |
| **52-C-3-25** | ⅝ | Center blanked with tapped ears on 2¾" centers | 4.3 | 25 |
| **52-C-3-1/2-25** | ½ | | 3.5 | 25 |
| **52-C-3-3/4** | ¾ | Center blanked with tapped ears on $2\frac{23}{32}$" centers | 4.3 | 25 |
| **52 C 3 1** | 1 | | 5.8 | 25 |
| **52-C-3-1-1/4** | 1⅛ | | 7.3 | 25 |
| **52 C 6** | — | Flat, with ½" KO | — | 100 |

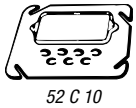
## 4" Square Device Covers

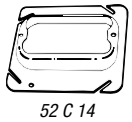

52 C 16


52 C 19

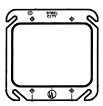

52 C 21


52 C 0


52 C 10


52 C 14


52-C-36


52 C 00


52-C-17-25


52 C 21

| CAT. NO. | RAISED (IN.) | DESCRIPTION | CU. IN. CAP. | STD. CTN. |
|---|---|---|---|---|
| ***For Single Device — Steel*** | | | | |
| **52 C 0** | — | Flat | — | 25 |
| **52 C 62** | ¼ | Keyed for plaster | 1.5 | 25 |
| **52 C 10** | ¼ | Offset, keyed for plaster | 1.0 | 25 |
| **52 C 13** | ½ | — | 3.0 | 50 |
| **52 C 14** | ¾ | — | 5.0 | 50 |
| **52 C 14 5/8** | ⅝ | — | 4.0 | 50 |
| **52 C 15** | 1 | — | 7.0 | 25 |
| **52 C 16** | 1¼ | — | 8.3 | 25 |
| **52-C-36** | ¼ | For drywall construction | 1.0 | 25 |
| ***For Two Devices*** | | | | |
| **52 C 00** | — | Flat | — | 25 |
| **52C20-25** | ¼ | — | 2.3 | 25 |
| **52-C-17-25** | ½ | — | 6.3 | 25 |
| **52 C 18** | ¾ | — | 9.0 | 25 |
| **52-C-18-5/8-25** | ⅝ | For drywall construction | 7.3 | 25 |
| **52 C 19** | 1 | — | 12.0 | 25 |
| **52 C 21** | 1¼ | — | 15.0 | 25 |
| **52 C 37** | ⅛ | — | 2.3 | 25 |

# Square Boxes and Accessories

## Box Support Covers

Steel City® Box Support Covers combine a box-to-stud mounting bracket with a device cover in one, easy-to-use product. Designed for use with 4" square boxes, Steel City® Box Support Covers can be used with both steel and wood studs.

- Combines cover and bracket in one component
- Available in one- and two-device versions
- ½", ⅝" and ¾" raised covers
- Speeds installation time
- Needs no far side support
- Can be used with both steel and wood stud
- Can be used without a box as a low voltage device support
- UL and CSA Listed (UL File #E2969, CSA File #LR5043)



52CM13



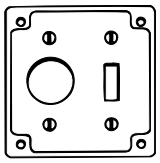
52CMD17

| CAT. NO. | RAISED (IN.) | # OF DEVICES | CU. IN. CAPACITY | STD. CTN. |
|---|---|---|---|---|
| **52CM13** | ½ | 1 | 3.0 | 25 |
| **52CM14-5/8** | ⅝ | 1 | 4.0 | 25 |
| **52CM14** | ¾ | 1 | 5.0 | 25 |
| **52CMD17** | ½ | 2 | 6.3 | 25 |
| **52CMD18-5/8** | ⅝ | 2 | 7.3 | 25 |
| **52CMD18** | ¾ | 2 | 9.0 | 25 |

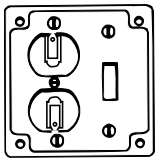
## 4" Square Surface Covers



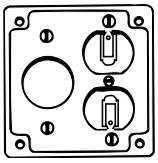
RS 4



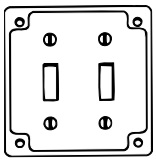
RS 1



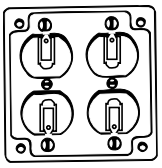
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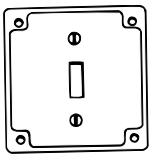
RS 3



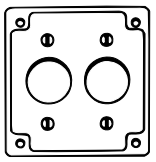
RS 5



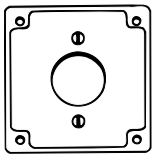
RS 8



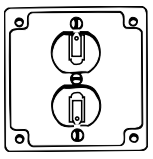
RS 9



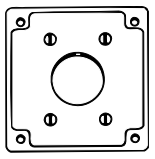
RS 10



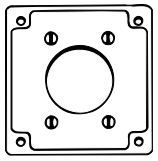
RS 11



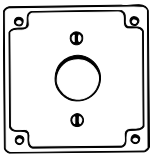
RS 12



RS 13



RS 14



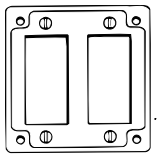
RS 15



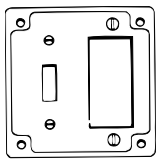
RS-16-CC

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | DIA. HOLE (IN.) | DESCRIPTION | STD. CTN. |
|---|---|---|---|---|---|
| **RS 1** | ½ | 5.0 | 1 13/32 | For one toggle switch and one single flush receptacle | 50 |
| **RS 2*** | ½ | 5.0 | — | For one toggle switch and one duplex flush receptacle | 50 |
| **RS 3*** | ½ | 5.0 | 1 13/32 | For one single and one duplex flush receptacle | 50 |
| **RS 4** | ½ | 5.0 | 1 19/35 | For one 4-wire twist-lock single receptacle | 50 |
| **RS 5** | ½ | 5.0 | — | For two toggle switches | 50 |
| **RS 8*** | ½ | 5.0 | — | For two duplex, flush receptacles | 50 |
| **RS 9** | ½ | 5.0 | — | For one toggle switch | 50 |
| **RS 10** | ½ | 5.0 | 1 13/32 | For two single, flush receptacles | 50 |
| **RS 11** | ½ | 5.0 | 1 13/32 | For one single, flush receptacle | 50 |
| **RS 12*** | ½ | 5.0 | — | For one duplex, flush receptacle | 50 |
| **RS 13** | ½ | 5.0 | 25/32 | For one 30 or 50 amp. dryer or range receptacle | 50 |
| **RS 14** | ½ | 5.0 | 2 15/32 | — | 50 |
| **RS 15** | ½ | 5.0 | 1¾ | For #3330–30A 250 V twist-lock receptacle | 50 |
| **RS-16-CC** | ½ | 5.0 | — | For one ground fault receptacle | 25 |
| **RS-17-CC** | ½ | 5.0 | — | For two ground fault receptacles | 25 |
| **RS-18-CC** | ½ | 5.0 | — | For one ground fault receptacle and one toggle switch | 25 |
| **RS-19-CC*** | ½ | 5.0 | — | For one ground fault receptacle and one duplex receptacle | 25 |

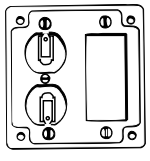
*Remove portion of G.F.I. receptacle ear to mount receptacle to cover. Screws captivated.*



RS-17-CC



RS-18-CC



RS-19-CC



Thomas&Betts

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Fax: 901.252.1354

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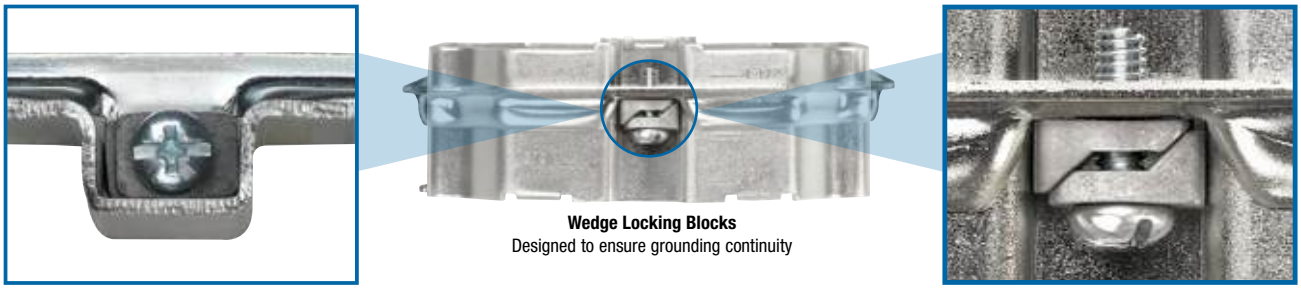
# UL® Listed Adjustable Mud Ring now available in both single- and two-gang.

NEW!



## Adjustable Mud Rings

Mud Rings feature an inner ring that adjusts from ½" to 1½" in depth to accommodate various drywall thicknesses. Marked with a measured rule and equipped with two adjustment screws, the inner ring can be set to the anticipated depth prior to installation and then easily adjusted after drywall installation to accommodate any variation in depth (½" to 1½").



**Wedge Locking Blocks**
Designed to ensure grounding continuity

## Adjustable Mud Ring Installation/Adjustment Steps:




**Loosen…**
The two adjustment screws located on opposing corners of the mud ring.




**Adjust…**
Inner ring to be flush with wall surface.




**Re-tighten…**
Adjustment screws.

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| 52-C-ADJ | Single-Gang Adjustable Mud Ring, ½" to 1½" | 25 |
| 52-C-ADJ2 | Two-Gang Adjustable Mud Ring, ½" to 1½" | 20 |

# Square Boxes and Accessories

## Steel City® Hands-Free Swivel Hanger

The new Steel City® Hands-Free Swivel Hanger allows you to quickly install high- and low-bay lighting fixtures without the need for an extra set of hands. The hanger design enables the fixture to be set in place, giving users access to the conductors while wiring is being completed. The Hands-Free Swivel Hanger can support a fixture up to 50 pounds and is ideal for gyms or other commercial sites.



- Fits standard 3½" or 4" octagon (SHHFR1234)
- Fits 4" square (SHHF1234) boxes
- A single installer can complete the installation — saving time, labor and cost
- Fixtures can be set in place before wiring is completed
- Design enables users to access the conductors after the fixture has been mounted onto the box
- Accommodates ½" or ¾" threaded fixture pipes
- Permits 20° swing from vertical
- Ideal for gyms or other commercial sites



**Material:** Zinc-plated sheet-metal hanger and malleable iron swivel connector.

**Listing:** UL and CSA Listed.

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **SHHF 1/2 3/4** | Hands-free Swivel Hanger | 25 |
| **SHHFR 1/2 3/4** | Hands-free Swivel Hanger (round) | 25 |

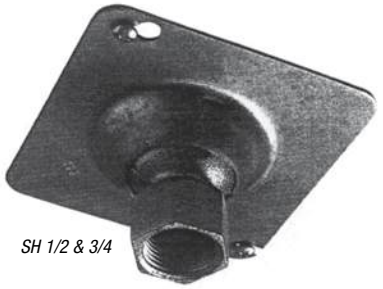
## Swivel Hangers



*SHR 1/2 & 3/4*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **SHR 1/2 & 3/4** | Swivel hanger for 4" octagonal boxes | 25 |

*UL Listed for 50 lb. fixture support.*



*SH 1/2 & 3/4*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **SH 1/2 & 3/4** | Swivel hanger for 4" square boxes | 25 |

*UL Listed for 50 lb. fixture support.*



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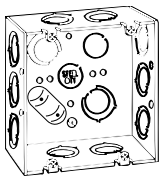
# Square Boxes and Accessories

## 4 11/16" Square Boxes

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPCAITY | EA. SIDE CONDUIT | EA. END CONDUIT | BOTTOM CONDUIT | STD. CTN. |
|---|---|---|---|---|---|---|
| *With Conduit KOs* | | | | | | |
| **72151-1/2 & 3/4-E*** | 1½ | 29.5 | 3–½", ¾–33/64" | 2–½", ¾–33/64" | 2–½", ¾"-E, 4–½" | 20 |
| **72171-1/2 & 3/4-E*** | 2⅛ | 42.0 | 3–½" & ¾"-E | 3–½" & ¾"-E | 2–½", ¾"-E, 3–½" | 20 |
| **72171 1** | 2⅛ | 42.0 | *2–1" | 2–1" | 3–½", 2–¾" | 20 |
| **72171 3/4 1*** | 2⅛ | 42.0 | 1–¾", 1–1" | 1–¾", 1–1" | 3–½", 3–¾", 2–1" | 20 |
| **72171 1 1/4*** | 2⅛ | 42.0 | 2–1¼" | 1–1¼" | 3–½", 2–¾" | 20 |
| **72171CV 1/2 3/4*** | 2⅛ | 42.0 | 2–½", 1–¾" | 2–½", 1–¾" | 3–½", 2–¾" | 25 |
| **72151 MS 1/2 3/4*** | 2⅛ | 42.0 | 3–½", ¾–33/64" | 3–½", ¾–33/64" | 2–½", ¾–33/64", 3–½" | 20 |
| **72151 MS 1/2 3/4** | 2⅛ | 42.0 | 3–½", ¾–33/64" | 2–½", ¾–33/64" | 2–½", 2–¾– 33/64", 4–½" | 25 |
| **72171 MS 1/2 3/4*** | 2⅛ | 42.0 | 3–½", ¾–33/64" | 3–½", ¾–33/64" | 2–½", ¾–33/64", 3–½" | 25 |
| **72151MSX** | 2⅛ | 42.0 | 3–½", ¾–33/64" | 2–½", ¾–33/64" | 2–½", 2–¾–33/64", 4–½" | 25 |
| **72151MSXP** | 2⅛ | 42.0 | 3–½", ¾–33/64" | 2–½", ¾–33/64" | 2–½", 2–¾–33/64", 4–½" | 25 |
| **72151MSP** | 2⅛ | 42.0 | 3–½", ¾–33/64" | 3–½", ¾–33/64" | 3–½", 2–½", ¾–33/64" | 25 |
| **72171MSX** | 2⅛ | 42.0 | 3–½", ¾–33/64" | 3–½", ¾–33/64" | 3–½", 2–½", ¾–33/64" | 25 |
| **72171MSXP** | 2⅛ | 42.0 | 3–½", ¾–33/64" | 3–½", ¾–33/64" | 3–½", 2–½", ¾–33/64" | 25 |



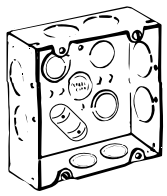
*72171 MS ½ & ¾*
*MS bracket for 1⅝", 2½", 3⅝", 4" metal studs*



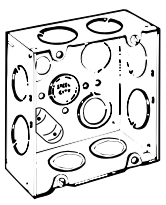
*72151-1/2 & 3/4-E*



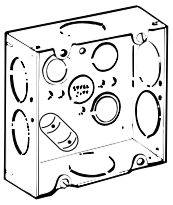
*72171-1/2 & 3/4-E*



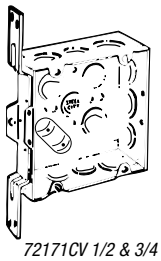
*72171 1*



*72171 3/4 1*



*72171 1 1/4*

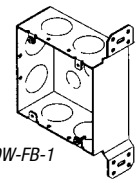


*72171CV 1/2 & 3/4*

** Per UL 514-A, suitable for use without a bonding jumper in circuits above or below 250 volts.*

## 4 11/16" Square Boxes

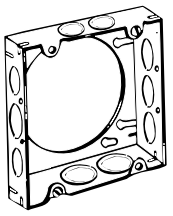
| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | DESCRIPTION | CONSTRUCTION TYPE | STD. CTN. |
|---|---|---|---|---|---|
| **5-SDW-FB-1** | 2⅛ | 42.0 | Two 1" KOs in each of three sides, flat bracket on other side and three ½" KOs in a line in bottom with two ¾" KOs at opposite ends in bottom. Four tapped ears* | Welded | 25 |



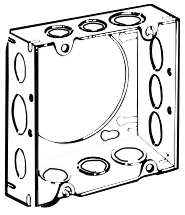
*5-SDW-FB-1*

## 4 11/16" Square Box Extension Rings

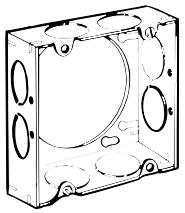
| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | KNOCKOUT (IN.) EA. SIDE CONDUIT | KNOCKOUT (IN.) EA. END CONDUIT | STD. CTN. |
|---|---|---|---|---|---|
| *With Conduit KOs* | | | | | |
| **73151 1/2 3/4*** | 1½ | 29.5 | 2–½ 1¼ | 2–½ 1¼ | 20 |
| **73171 1/2 3/4*** | 2⅛ | 42.0 | 2–½ 1¾ | 2–½ 1¼ | 20 |
| **73171 1** | 2⅛ | 42.0 | 2–1 | 2–1 | 20 |



*73151 1/2 & 3/4*



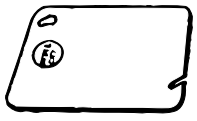
*73171 1/2 & 3/4*



*73171 1*

## 4 11/16" Square Covers

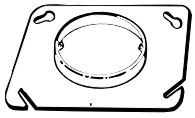
| CAT. NO. | CU. IN. CAPACITY | RAISED (IN.) | DESCRIPTION | STD. CTN. |
|---|---|---|---|---|
| **72 C 1** | — | — | Flat blank | 50 |
| **72 C 6** | — | — | Flat with ½" KO | 25 |
| **72 C 3** | 3.5 | ⅝ | Center blanked with tapped ears on 2 23/32" centers | 10 |
| **72-C-3-1/2** | 3.0 | ½ | | 25 |
| **72-C-3-3/4** | 4.3 | ¾ | | 10 |
| **72-C-3-1** | 5.8 | 1 | | 25 |



*72 C 1*



*72 C 6*



*72 C 3*



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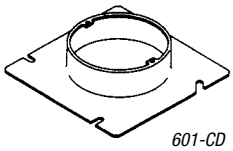
**United States**
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Fax: 901.252.1354

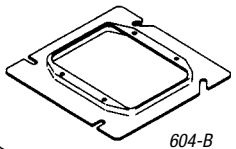
**Technical Services**
Tel: 888.862.3289

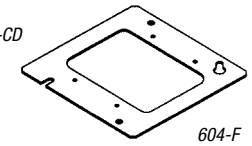
Thomas&Betts

# Square Boxes and Accessories

## 4 11/16" Square Rings and Covers


601-CD

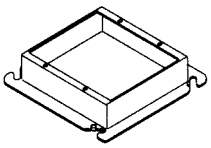

604-B


604-F

| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **601-CD** | 8.8 | **1¼" raised — 4 11/16" square**<br>Open plaster ring with ears. Ears tapped 8/32–2 23/32" on centers. Special screw lock feature in slots* | 25 |
| **604-F** | — | **Flat — 4 11/16" square**<br>For two switches or receptacles* | 25 |
| **604-B** | 2.8 | **¼" raised — 4 11/16" square**<br>For two switches or receptacles* | 25 |

**Fits any Steel City® 4 11/16" square outlet box or extension ring.*

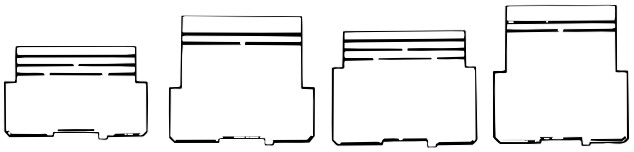
## 4 11/16" Square Tile Rings


608-C

| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **608-C** | 12.5 | **1" raised — 4 11/16" square**<br>For two switches or receptacles* | 10 |

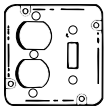
**Fits any Steel City® 4 11/16" square outlet box or extension ring.*

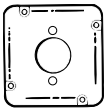
## 4 11/16" Square Box Partitions

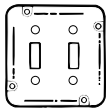

72 PS 1 · 72 PS 2 · 72 PD 1 · 72 PD 2

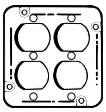
| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| ***For 1½" Deep Box with Square-Cut Tile Wall — Two-Device Covers*** | | |
| **72 PS 1** | For ½", ¾" and 1" raised covers | 25 |
| **72 PS 2** | For 1¼", 1½" and 2" raised covers | 25 |
| ***For 2⅛" Deep Box with Square-Cut Tile Wall — Two-Device Covers*** | | |
| **72 PD 1** | For ½", ¾" and 1" raised covers | 25 |
| **72 PD 2** | For 1¼", 1½" and 2" raised covers | 25 |

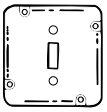
## 4 11/16" Square Surface Covers


RSL 2

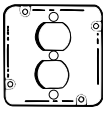

RSL 4


RSL 5

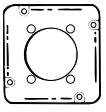

RSL 8

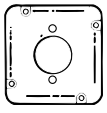

RSL 9

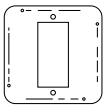

RSL 11

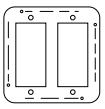

RSL 12

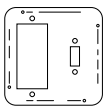

RSL 13

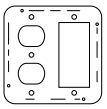

RSL 14


RSL 15


RSL 16


RSL 17


RSL 18


RSL 19

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | DIA. HOLE (IN.) | DESCRIPTION | STD. CTN. |
|---|---|---|---|---|---|
| **RSL 2** | ½ | 7.5 | — | For one toggle switch and one duplex flush receptacle | 10 |
| **RSL 4** | ½ | 7.5 | 1 11/32 | For one 4-wire twist-lock single receptacle | 10 |
| **RSL 5** | ½ | 7.5 | — | For two toggle switches | 10 |
| **RSL 8** | ½ | 7.5 | — | For two duplex, flush receptacles | 10 |
| **RSL 9** | ½ | 7.5 | 15/32 | For one toggle switch | 10 |
| **RSL 11** | ½ | 7.5 | 1 55/64 | For one single, flush receptacle | 10 |
| **RSL 12** | ½ | 7.5 | — | For one duplex, flush receptacle | 10 |
| **RSL 13** | ½ | 7.5 | 2 3/32 | For one 30A to 50A dryer or range receptacle | 10 |
| **RSL 14** | ½ | 7.5 | 2 15/32 | — | 10 |
| **RSL 15** | ½ | 7.5 | 1¾ | For #3330–30A 250 V twist-lock receptacle | 10 |
| **RSL 16** | ½ | 7.5 | — | For one ground fault receptacle | 10 |
| **RSL 17** | ½ | 7.5 | — | For two ground fault receptacles | 10 |
| **RSL 18** | ½ | 7.5 | — | For one ground fault receptacle and one toggle switch | 10 |
| **RSL 19** | ½ | 7.5 | — | For one ground fault receptacle and one duplex receptacle | 10 |



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Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

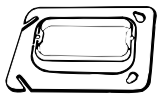
**Technical Services**
Tel: 888.862.3289

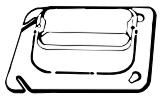
www.tnb.com

# Square Boxes and Accessories

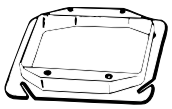


## 4 11/16" Square Device Covers


72 C 13


72 C 15

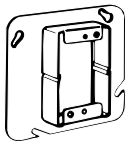

72 C 14

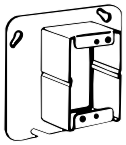

72 C 17

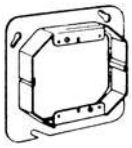

72 C 21

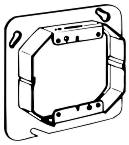
| CAT. NO. | RAISED (IN.) | CU. IN. CAPACITY | STD. CTN. |
|---|---|---|---|
| ***For Single Device*** | | | |
| **72 C 62** | ¼ | 1.0 | 25 |
| **72 C 13** | ½ | 3.0 | 25 |
| **72 C 14** | ¾ | 5.0 | 25 |
| **72 C 14 5/8** | ⅝ | 4.0 | 25 |
| **72 C 15** | 1 | 7.0 | 10 |
| **72 C 16** | 1¼ | 8.3 | 10 |
| ***For Two Devices*** | | | |
| **72 C 17** | ½ | 6.3 | 25 |
| **72 C 18** | ¾ | 9.0 | 25 |
| **72 C 18 5/8** | ⅝ | 7.5 | 25 |
| **72 C 19** | 1 | 12.0 | 25 |
| **72 C 21** | 1¼ | 15.0 | 25 |

## 4 11/16" Square-Cut Tile Wall Covers


72 C 49 3/4

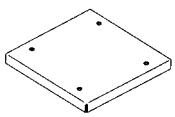

72 C 50 1 1/2

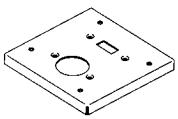

72 C 52 3/4

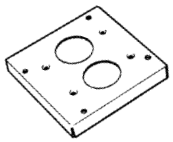

72 C 53 1 1/2

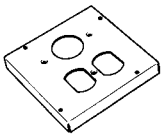
| CAT. NO. | RAISED (IN.) | CU. IN. CAPACITY | STD. CTN. |
|---|---|---|---|
| ***For Single Device — Steel*** | | | |
| **72-C-49-1/2** | ½ | 3.5 | 10 |
| **72 C 49 3/4** | ¾ | 5.3 | 10 |
| **72-C-49-1** | 1 | 7.0 | 10 |
| **72-C-49-1-1/4** | 1¼ | 7.0 | 10 |
| **72 C 50 1 1/2** | 1½ | 9.0 | 10 |
| **72 C 51 2** | 2 | 14.5 | 20 |
| ***For Two Devices — Steel*** | | | |
| **72-C-52-1/2** | ½ | 6.0 | 10 |
| **72 C 52 3/4** | ¾ | 9.0 | 10 |
| **72-C-52-1** | 1 | 12.5 | 25 |
| **72-C-52-1-1/4** | 1¼ | 15.5 | 25 |
| **72 C 53 1 1/2** | 1½ | 19.0 | 10 |
| **72 C 54 2** | 2 | 25.5 | 10 |

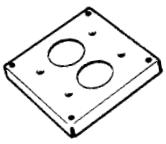
## 4 11/16" Square Industrial Device Covers

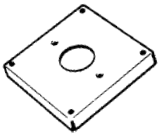

649


650-BW


655


657-NEC


663-BW


665-BW

| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **649** | 7.5 | **½" raised — 4 11/16" square**<br>Surface blank. Each cover individually packaged with the necessary screws for mounting* | 10 |
| **650-BW** | 7.5 | **½" raised — 4 11/16" square**<br>For one toggle switch and one single receptacle. Opening 1.4" diameter. Each cover individually packaged with the necessary screws for mounting* | 10 |
| **655** | 7.5 | **½" raised — 4 11/16" square**<br>For two single receptacles. Opening 1.4" diameter. Each cover individually packaged with the necessary screws for mounting* | 10 |
| **657-NEC** | 7.5 | **½" raised — 4 11/16" square**<br>For one duplex and one single receptacle. Opening 1.4" diameter. Each cover individually packaged with the necessary screws for mounting* | 10 |
| **663-BW** | 7.5 | **½" raised — 4 11/16" square**<br>For two three-wire twist lock receptacles. 11/16" spacing between 1.4" diameter openings.<br>Each cover individually packaged with the necessary screws for mounting* | 10 |
| **665-BW** | 7.5 | **½" raised — 4 11/16" square**<br>Opening to accommodate Hubbell 3330 receptacle in center.<br>Opening 1.75" diameter. Each cover individually packaged with the necessary screws for mounting* | 10 |

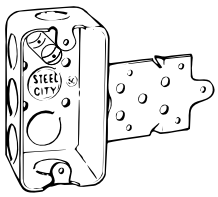
**Fits any Steel City® 4 11/16" square outlet box or extension ring.*

# Utility Boxes and Accessories

## 4" x 2⅛" Utility Boxes



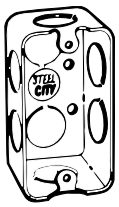
58351 1/2*



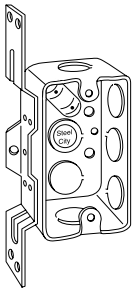
58351 B 1/4
B bracket recessed ¼"



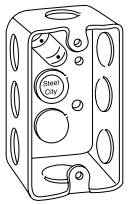
58361 1/2*



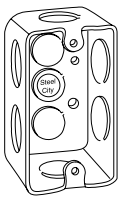
58361 3/4



58361 V 1/2*
CV bracket recessed ½"



58371 1/2*



58371 3/4



58371 T 1/2
T bracket recessed ⅝"

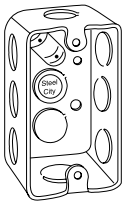


58371V1/2-25*
CV bracket recessed ½"

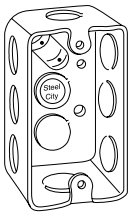
| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | BRKTS. | KNOCKOUTS (IN.) EA. SIDE CONDUIT | EA. END CONDUIT | BOTTOM CONDUIT | STD CTN. |
|---|---|---|---|---|---|---|---|
| ***With Conduit KOs*** | | | | | | | |
| **58351 1/2*** | 1½ | 10.3 | — | 3–½ | 1–½ | 2–½ | 50 |
| **58351 B 1/4** | 1½ | 10.3 | B | 3–½ | 1–½ | 2–½ | 25 |
| **58361 1/2*** | 1⅞ | 13.0 | — | 3–½ | 1–½ | 2–½ | 50 |
| **58361 3/4** | 1⅞ | 13.0 | — | 2–¾ | 1–¾ | 2–¾ | 50 |
| **58361 V 1/2*** | 1⅞ | 13.0 | CV | 3–½ | 1–½ | 2–½ | 50 |
| **58371 1/2*** | 2⅛ | 14.5 | — | 3–½ | 1–½ | 2–½ | 50 |
| **58371 3/4** | 2⅛ | 14.5 | — | 2–¾ | 1–¾ | 2–¾ | 50 |
| **58371 T 1/2*** | 2⅛ | 14.5 | T | 3–½ | 1–½ | 2–½ | 25 |
| **58371V1/2-25*** | 2⅛ | 14.5 | CV | 3–½ | 1–½ | 2–½ | 25 |

** Factory-provided raised ground-screw location.*

## 4⅛" x 2½" Utility Boxes



68361 1/2



68371 1/2

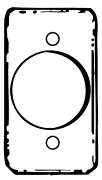
| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | KNOCKOUTS (IN.) EA. SIDE CONDUIT | EA. END CONDUIT | BOTTOM CONDUIT | STD. CTN. |
|---|---|---|---|---|---|---|
| ***With Conduit KOs*** | | | | | | |
| **68361 1/2*** | $1\frac{15}{16}$ | 17.0 | 3–½ | 1–½ | 2–½ | 25 |
| **68371 1/2*** | $2\frac{3}{16}$ | 18.8 | 3–½ | 1–1½ | 2–½ | 50 |

** Factory-provided raised ground-screw location.*

## 4" x 2⅛" Utility Box Covers



58 C 1



58 C 4



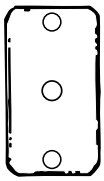
58 C 5



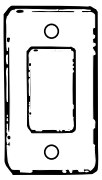
58 C 6



58 C 7



58 C 11



58 C 16



58 C 30

| CAT. NO. | DIA. HOLE (IN.) | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| ***Raised ¼"*** | | | |
| **58 C 1** | — | Blank | 100 |
| **58 C 4** | $1\frac{19}{32}$ | For 4-wire twist-lock single flush receptacle | 25 |
| **58 C 5** | $1\frac{13}{32}$ | For single receptacle | 25 |
| **58 C 6** | — | With ½" KO | 25 |
| **58 C 7** | — | For duplex flush receptacle | 100 |
| **58 C 11** | — | With $\frac{15}{32}$" bushed hole | 25 |
| **58 C 16** | — | For single GFCI receptacle | 25 |
| **58 C 30** | — | For one toggle switch | 100 |

*Includes captivated Phillips head screws.*



Thomas&Betts

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800.816.7809
Fax: 901.252.1354

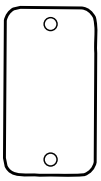
**Technical Services**
Tel: 888.862.3289

www.tnb.com

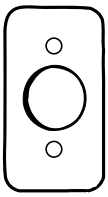
# Utility/Handy Boxes and Accessories



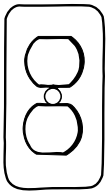
## 4⅛" x 2½" Utility Box Covers Raised 3/16"



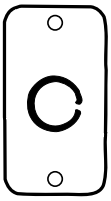
68-C-1



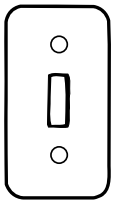
68 C 5



68 C 7



68 C 6



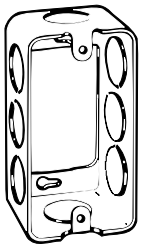
68 C 30

| CAT. NO. | DIA. HOLE (IN.) | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **68 C 1** | — | Blank | 25 |
| **68 C 5** | 1 13/32 | For single receptacle | 25 |
| **68 C 6** | — | With ½" KO | 25 |
| **68 C 7** | — | For duplex flush receptacle | 25 |
| **68 C 30** | — | For one toggle switch | 25 |

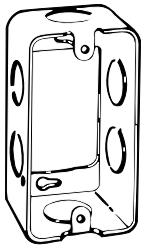
*Includes captivated Phillips head screws.*

## 4" x 2⅛" Utility Box Extension Rings

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | KNOCKOUTS(IN.) EA. SIDE CONDUIT | KNOCKOUTS(IN.) EA. END CONDUIT | STD. CTN. |
|---|---|---|---|---|---|
| ***With Conduit KOs*** | | | | | |
| **59361 1/2** | 1⅞ | 13.0 | 3–½ | 1–½ | 50 |
| **59361 3/4** | 1⅞ | 13.0 | 2–¾ | 1–¾ | 25 |

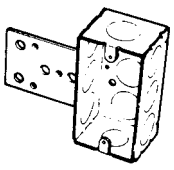


59361 1/2

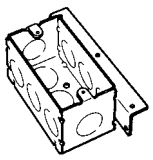


59361 3/4

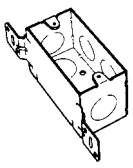
## Handy Boxes



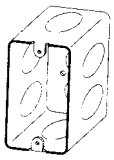
102-W-LB-1/4



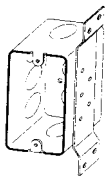
103-W-AB



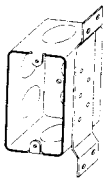
104-W-FB-3/4



106-3/4



106-FB-1/2



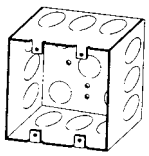
106-FB-3/4

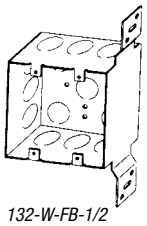
| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | DESCRIPTION | CONSTRUCTION TYPE | STD. CTN. |
|---|---|---|---|---|---|
| **102-W-LB-1/4** | 1½ | 10.3 | **1½" deep x 4" long x 2⅛" wide**<br>Three ½" KOs in one side, lateral bracket on other side, one ½" KO in each end and three ½" KOs in bottom. Furnished with four mounting holes in bottom. Bracket offset ¼" from face* | Welded | 50 |
| **103-W-AB** | 1⅞ | 13.0 | **1⅞" deep x 4" long x 2⅛" wide**<br>Three ½" KOs in one side, angle bracket on other side, one ½" KO in each end and three ½" KOs in bottom. Bracket offset 9/16" from face* | Welded | 50 |
| **104-W-FB-3/4** | 2⅛ | 14.5 | **2⅛" deep x 4" long x 2⅛" wide**<br>Two ¾" KOs in one side, flat bracket on other side, one ¾" KO in each end and two ¾" KOs in bottom. Flat bracket offset 9/16" from face* | Welded | 50 |
| **106-3/4** | 2 3/16 | 18.0 | **2 3/16" deep x 4⅛" long x 2⅜" wide**<br>Two ¾" KOs in each side, one ¾" KO in each end and three ½" KOs in bottom. Two mounting holes in bottom | Drawn | 50 |
| **106-FB-1/2** | 2 3/16 | 18.0 | **2 3/16" deep x 4⅛" long x 2⅜" wide**<br>Three ½" KOs in one side, flat bracket on other side, one ½" KO in each end and three ½" KOs in bottom. Flat bracket offset 9/16" from face | Drawn | 50 |
| **106-FB-3/4** | 2 3/16 | 18.0 | **2 3/16" deep x 4⅛" long x 2⅜" wide**<br>Two ¾" KOs in each side, flat bracket on other side, one ¾" KO in each end and three ½" KOs in bottom. Flat bracket offset 9/16" from face | Drawn | 50 |

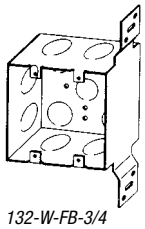
**Uses Steel City® 100 series covers.*

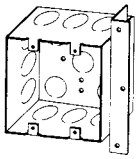
# Handy/Gang Boxes and Accessories

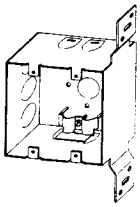
## Multi-Gang Handy Boxes

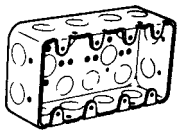

132-W-1/2


132-W-FB-1/2


132-W-FB-3/4


132-W-AB-1/2


132-W-FBC


134-BW

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|---|
| **132-W-1/2** | 2⅛ | 30.3 | **A Two-Gang Box, 2⅛" deep — 4" square**<br>Three ½" KOs in each of four sides and three ½" KOs in a line in bottom with two ¾" KOs at opposite ends in bottom* | 25 |
| **132-W-FB-1/2** | 2⅛ | 30.3 | **A Two-Gang Box, 2⅛" deep — 4" square**<br>Three ½" KOs in each of three sides, flat bracket on fourth side and five ½" KOs in bottom. Flat bracket offset 9⁄16" from face* | 25 |
| **132-W-FB-3/4** | 2⅛ | 30.3 | **A Two-Gang Box, 2⅛" deep — 4" square**<br>Two ¾" KOs in each of three sides, flat bracket on fourth side and three ½" KOs in a line with two ¾" KOs at opposite ends in bottom. Flat bracket offset 9⁄16" from face* | 25 |
| **132-W-AB-1/2** | 2⅛ | 30.3 | **A Two-Gang Box, 2⅛" deep — 4" square**<br>Three ½" KOs in each of three sides, angle bracket on fourth side and five ½" KOs in bottom. Bracket offset 9⁄16" from face* | 25 |
| **132-W-FBC** | 2⅛ | 30.3 | **For Non-Metallic Cable — A Two-Gang Box, 2⅛" deep — 4" square**<br>Two Loom KOs in each of two opposite sides, two ½" KOs in side opposite flat bracket and one ½" KO in bottom.<br>Two Loom clamps for use on non-metallic sheathed cable with 10/32 deep-slotted screws assembled. Flat bracket offset 9⁄16" from face* | 25 |
| **134-BW** | 2⅛ | 58.0 | **A Four-Gang Box**<br>Four ½" KOs in each side, two ½" KOs in each end and ten ½" KOs in bottom. Uses Steel City SB-4 cover | 20 |

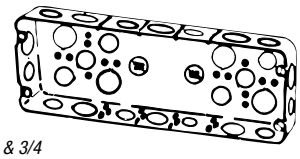
**Uses Steel City® SB-2 covers.*

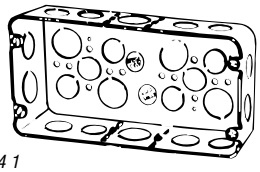
## Drawn-Style Gang Boxes

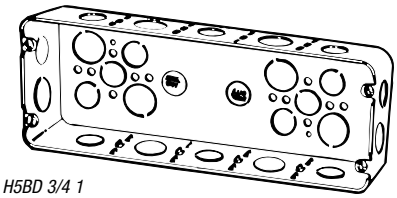
| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | HEIGHT (IN.) | LGTH. (IN.) | KNOCKOUTS (IN.) EA. SIDE CONDUIT | EA. END CONDUIT | BOTTOM CONDUIT | STD. CTN. |
|---|---|---|---|---|---|---|---|---|
| ***With Conduit KOs*** | | | | | | | | |
| **2G 1/2 3/4** | 1 5⁄8 | 45.0 | 4 1⁄2 | 6 13⁄16 | 2–1⁄2<br>2–3⁄4 | 1–1⁄2<br>1–3⁄4 | 3–1⁄2<br>2–3⁄4 | 5 |
| **3G 1/2 3/4** | 1 5⁄8 | 58.0 | 4 1⁄2 | 8 5⁄8 | 3–1⁄2<br>2–3⁄4 | 1–1⁄2<br>1–3⁄4 | 6–1⁄2<br>4–3⁄4 | 5 |
| **4G 1/2 3/4** | 1 5⁄8 | 70.0 | 4 1⁄2 | 10 7⁄16 | 3–1⁄2<br>3–3⁄4 | 1–1⁄2<br>1–3⁄4 | 6–1⁄2<br>4–3⁄4 | 5 |
| **5G 1/2 3/4** | 1 5⁄8 | 85.0 | 4 1⁄2 | 12 1⁄4 | 4–1⁄2<br>3–3⁄4 | 1–1⁄2<br>1–3⁄4 | 6–1⁄2<br>4–3⁄4 | 1 |
| **6G 1/2 3/4** | 1 5⁄8 | 95.0 | 4 1⁄2 | 14 1⁄16 | 4–1⁄2<br>4–3⁄4 | 1–1⁄2<br>1–3⁄4 | 6–1⁄2<br>4–3⁄4 | 1 |
| **H2BD 3/4 1** | 2 1⁄2 | 71.0 | 4 1⁄2 | 6 13⁄16 | 2–3⁄4<br>1–1 | 1–3⁄4<br>1–1 | 3–1⁄2<br>2–3⁄4 | 10 |
| **H3BD 3/4 1** | 2 1⁄2 | 90.0 | 4 1⁄2 | 8 5⁄8 | 4–3⁄4<br>1–1 | 1–3⁄4<br>1–1 | 6–1⁄2<br>4–3⁄4 | 10 |
| **H4BD 3/4 1** | 2 1⁄2 | 110.0 | 4 1⁄2 | 10 7⁄16 | 2–3⁄4<br>2–1 | 1–3⁄4<br>1–1 | 6–1⁄2<br>4–3⁄4 | 5 |
| **H5BD 3/4 1** | 2 1⁄2 | 132.0 | 4 1⁄2 | 12 1⁄4 | 3–3⁄4<br>2–1 | 1–3⁄4<br>1–1 | 6–1⁄2<br>4–3⁄4 | 5 |
| **H6BD 3/4 1** | 2 1⁄2 | 150.0 | 4 1⁄2 | 14 1⁄16 | 3–3⁄4<br>3–1 | 1–3⁄4<br>1–1 | 6–1⁄2<br>4–3⁄4 | 5 |


2G 1/2 & 3/4


3G 1/2 & 3/4


5G 1/2 & 3/4


H3BD 3/4 1


H5BD 3/4 1



Thomas&Betts

**United States**
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

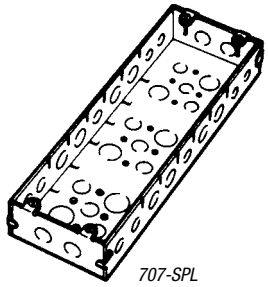
**Technical Services**
Tel: 888.862.3289

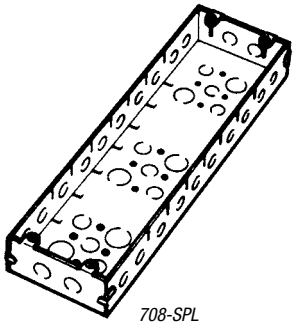
www.tnb.com

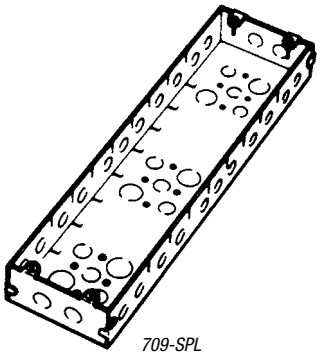
# Gang Boxes and Accessories

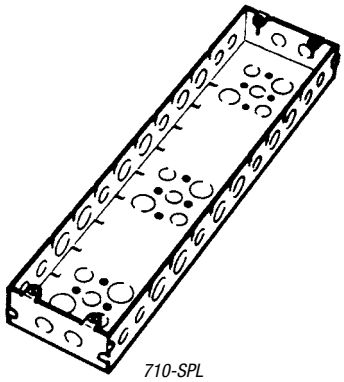


## Multi-Gang Boxes


707-SPL


708-SPL


709-SPL

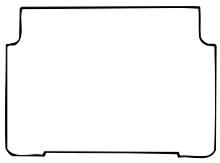

710-SPL

| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **707-SPL** | 126.5 | **Seven-Gang Box, 1 13/16" deep x 4 9/16" long x 15 15/16" wide**<br>Five ½" KOs and four ¾" KOs in each side, two ½" KOs in each end and nine ½" KOs with six ¾" KOs in bottom.<br>Furnished with four 8/32 screws. For use with either Steel City® 807 and SB-7, 808 and SB-8, or just GB-7 rings and covers | 1 |
| **708-SPL** | 141.3 | **Eight-Gang Box, 1 13/16" deep x 4 9/16" long x 17¾" wide**<br>Six ½" KOs and four ¾" KOs in each side, two ½" KOs in each end and nine ½" KOs with six ¾" KOs in bottom.<br>Furnished with four 8/32 screws. For use with either Steel City® 808 and SB-8, 809 and SB-9, or just GB-8 rings and covers | 1 |
| **709-SPL** | 155.8 | **Nine-Gang Box, 1 13/16" deep x 4 9/16" long x 19 9/16" wide**<br>Six ½" and five ¾" KOs in each side and two ½" KOs in each end and nine ½" KOs with six ¾" KOs in bottom.<br>Furnished with four 8/32 screws. For use with either Steel City® 809 and SB-9, 810 and SB-10, or just GB-9 rings and covers | 1 |
| **710-SPL** | 170.5 | **Ten-Gang Box, 1 13/16" deep x 4 9/16" long x 21⅜" wide**<br>Six ½" KOs and six ¾" KOs in each side, two ½" KOs in each end and nine ½" KOs with six ¾" KOs in bottom.<br>Furnished with four 8/32 screws. For use with either Steel City® 810 and SB-10, or just GB-10 rings and covers | 1 |

## Gang Box Partitions

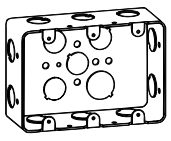
| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **SGP** | Hi/low-voltage partition for 1⅝"-deep box | 25 |
| **DGP** | Hi/low-voltage partition for 2½"-deep box | 50 |

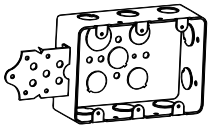

SGP


DGP

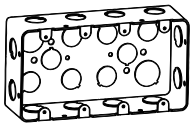
## 2-, 3- and 4-Gang Drawn-Style Device Boxes

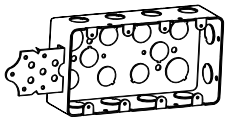
| CAT. NO. | GANG | DEPTH (IN.) | CU. IN. CAPACITY | BRACKETS | EA. SIDE CONDUIT | EA. END CONDUIT | STD. CTN. |
|---|---|---|---|---|---|---|---|
| **2G4DV 1/2 3/4** | 2 | 2⅛ | 30.3 | CV | 2 –½", 1–¾" | 2–½", 1–¾" | 25 |
| **3G4D 1/2** | 3 | 2⅛ | 44.3 | — | 3–½" | 2–½" | 20 |
| **3G4D B 1/2** | 3 | 2⅛ | 44.3 | B | 3–½" | 2–½" | 20 |
| **3G4D V 1/2** | 3 | 2⅛ | 44.3 | CV | 3–½" | 2–½" | 20 |
| **4G4D 1/2** | 4 | 2⅛ | 58.0 | — | 4–½" | 2–½" | 20 |
| **4G4D B 1/2** | 4 | 2⅛ | 58.0 | B | 4–½" | 2–½" | 20 |
| **4G4D V 1/2** | 4 | 2⅛ | 58.0 | CV | 4–½" | 2–½" | 20 |

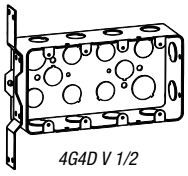

3G4D 1/2


3G4D B 1/2


3G4D V 1/ 2


4G4D 1/2

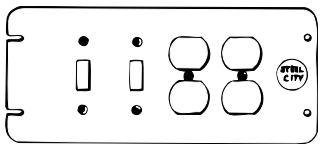

4G4D B 1/2


4G4D V 1/2

# Gang Boxes and Accessories

## Gang Box Covers

When covers are required to accommodate various combinations of devices, use the following catalog numbers plus the suffix "SPECIAL," and then indicate the combinations desired. When necessary, also indicate the sequence of devices.



*EXAMPLE: 4-GCS Special*

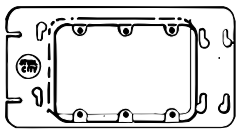
- As illustrated (above), this is a 4-GCS Special for two toggle switches on left side and two duplex receptacles on right side

| CAT. NO. | LGTH. (IN.) | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|---|
| ***4 11/16" Wide–Raised 13/16" for Plaster*** | | | | |
| **2-GC** | 7 | 8.5 | Holes between gangs are spaced on 13/16" centers; tapped holes in ears; spaced on 3 9/32" centers to accommodate all standard receptacles and switches; furnished with extra plugged screw holes; if these screw holes are used, the cover will fit the next smaller size box | 5 |
| **3-GC** | 8 13/16 | 13.5 | | 5 |
| **4-GC** | 10 5/8 | 18.3 | | 5 |
| **5 GC** | 12 7/16 | 23.0 | | 5 |
| **6 GC** | 14 1/4 | 28.3 | | 5 |
| ***4 11/16" Wide — Flat, Blank*** | | | | |
| **2-GCB** | 7 | — | — | 25 |
| **3-GCB** | 8 13/16 | — | — | 25 |
| **4-GCB** | 10 5/8 | — | — | 25 |
| **5 GCB** | 12 7/16 | — | — | 25 |
| **6 GCB** | 14 1/4 | — | — | 25 |
| ***4 11/16" Wide — Flat for Toggle Switches*** | | | | |
| **2-GCS** | 7 | — | For 2 toggle switches | 25 |
| **3-GCS** | 8 13/16 | — | For 3 toggle switches | 25 |
| **4-GCS** | 10 5/8 | — | For 4 toggle switches | 25 |
| **5 GCS** | 12 7/16 | — | For 5 toggle switches | 25 |
| **6 GCS** | 14 1/4 | — | For 6 toggle switches | 25 |

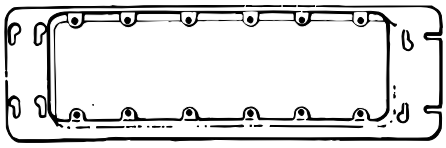
*4 11/16" wide — special covers — flat to accommodate combinations of devices.*



*4-GC*



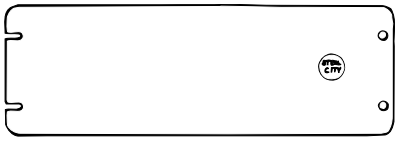
*3-GC*



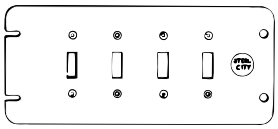
*6 GC*



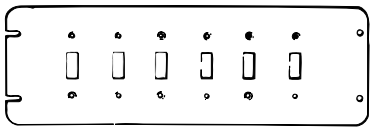
*3-GCB*



*5 GCB*

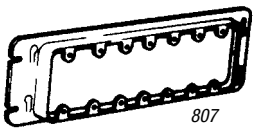


*4-GCS*

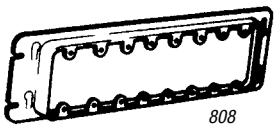


*6 GCS*

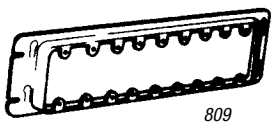
## Multi-Gang Rings



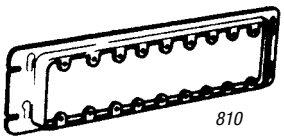
*807*



*808*



*809*



*810*

| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **807** | 36.3 | **A seven-gang switch ring, 3/4" raised x 4 9/16" long x 15 15/16" wide**<br>Fits Steel City® 706 or 707 outlet boxes and uses GB-7 covers | 1 |
| **808** | 41.0 | **An eight-gang switch ring, 3/4" raised x 4 9/16" long x 17 3/4" wide**<br>Fits Steel City® 707 or 708 outlet boxes and uses GB-8 covers | 1 |
| **809** | 46.5 | **A nine-gang switch ring, 3/4" raised x 4 9/16" long x 19 9/16" wide**<br>Fits Steel City® 708 or 709 outlet boxes and uses GB-9 covers | 1 |
| **810** | 51.5 | **A ten-gang switch ring, 3/4" raised x 4 9/16" long x 21 3/8" wide**<br>Fits Steel City® 709 or 710 outlet boxes and uses GB-10 covers | 1 |



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# Gang Boxes and Accessories

## Multi-Gang Covers — SB Series

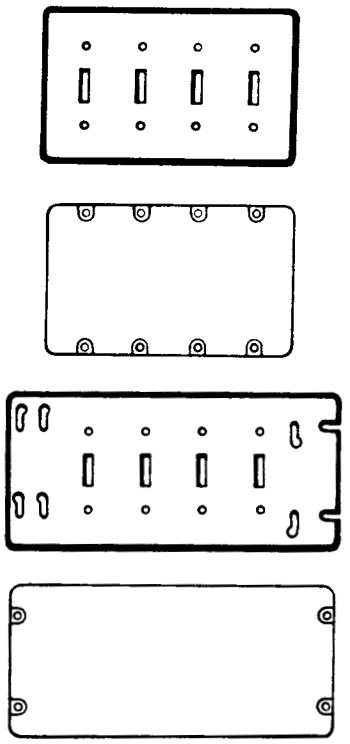
| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| SB-2 | 2-gang cover | 1 |
| SB-3 | 3-gang cover | 1 |
| SB-4 | 4-gang cover | 1 |
| SB-5 | 5-gang cover | 1 |
| SB-6 | 6-gang cover | 1 |
| SB-7 | 7-gang cover | 1 |
| SB-8 | 8-gang cover | 1 |
| SB-9 | 9-gang cover | 1 |
| SB-10 | 10-gang cover | 1 |

*Fits Steel City® 132, 133 and 134 series handy boxes (both welded and drawn) and 800 series multi-gang rings.*

## Multi-Gang Covers — GB Series

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| GB-2 | 2-gang cover | 1 |
| GB-3 | 3-gang cover | 1 |
| GB-4 | 4-gang cover | 1 |
| GB-5 | 5-gang cover | 1 |
| GB-6 | 6-gang cover | 1 |
| GB-7 | 7-gang cover | 1 |
| GB-8 | 8-gang cover | 1 |
| GB-9 | 9-gang cover | 1 |
| GB-10 | 10-gang cover | 1 |

*Fits Steel City® 700 series multi-gang boxes.*



*Typical Mounting Arrangement*

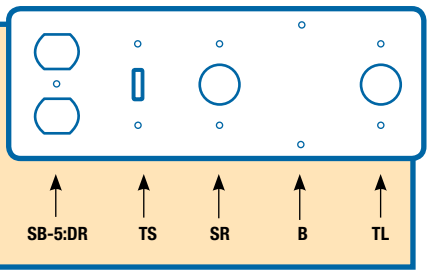
### How To Order.

1. Indicate style of cover "GB" or "SB"
2. Use symbols for each opening
3. Separate each symbol with a dash (–)
4. Allow 4 to 6 weeks for shipment

**Symbols**

DR Duplex Receptacle
TS Toggle Switch
SR Single Receptacle — Opening 1.4"
B Blank
TL Twist Lock (4-Wire) — Opening 1.594"

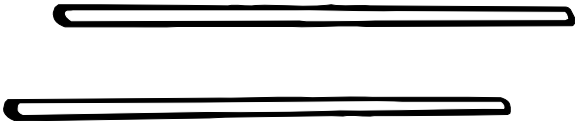
Example:



# Concrete/Masonry Boxes and Accessories

## Bars for Hanging Ceiling Boxes

| CAT. NO. | LENGTH (IN.) | STD. CTN. |
|---|---|---|
| HBB 18 | 18 | 40 |
| HBB-24 | 24 | 40 |
| HBB-30 | 30 | 40 |

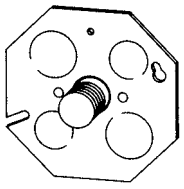


*Two bars required for each box.*

## Concrete Box Covers

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| 911 | Flat — 4" octagon<br>Two ½" KOs and two ¾" KOs with ⅜" fixture stud* | 25 |

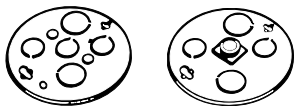
*Fits any Steel City® concrete box.*



*911*

## Concrete Box Cover Plate

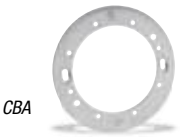
- Thread size: ⅜–18 NPS



*CBP* *CBP 3/8*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| CBP | No Stud; 3½" and 2¾" KOs | 25 |
| CBP 3/8 | With ⅜" fixture stud; 2½" and ¾" KOs | 25 |

## Concrete Box Adapter

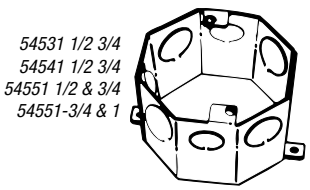


*CBA*

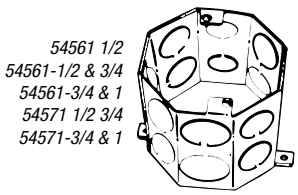
| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| CBA | For quick mounting and alignment of 4" octagon extension ring on concrete box or hung ceiling box | 25 |

## 4" Octagon Concrete Boxes

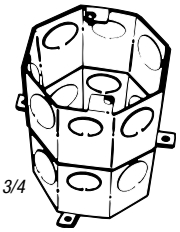
| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | KNOCKOUTS | STD. CTN. |
|---|---|---|---|---|
| *With Conduit KOs* | | | | |
| 54531 1/2 3/4 | 2 | 23.0 | ½" & ¾" single row | 25 |
| 54541 1/2 3/4 | 2½ | 29.0 | ½" & ¾" single row | 25 |
| 54551 1/2 & 3/4 | 3 | 35.0 | ½" & ¾" single row | 20 |
| 54551-3/4 & 1 | 3 | 35.0 | ¾" & 1" single row | 20 |
| 54561 1/2 | 3½ | 41.0 | ½" double row | 20 |
| 54561-1/2 & 3/4 | 3½ | 41.0 | ½" & ¾" double row | 20 |
| 54561-3/4 & 1 | 3½ | 41.0 | ¾" & 1" double row | 20 |
| 54571 1/2 3/4 | 4 | 47.0 | ½" & ¾" double row | 10 |
| 54571-3/4 & 1 | 4 | 47.0 | ¾" & 1" double row | 10 |
| 54581 1/2 & 3/4 | 5 | 58.0 | ½" & ¾" double row | 10 |
| 54591 1/2 & 3/4 | 6 | 70.0 | ½" & ¾" three rows | 10 |



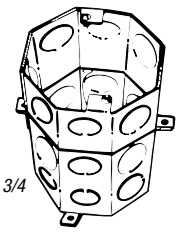
*54531 1/2 3/4*
*54541 1/2 3/4*
*54551 1/2 3/4*
*54551-3/4 & 1*



*54561 1/2*
*54561-1/2 & 3/4*
*54561-3/4 & 1*
*54571 1/2 3/4*
*54571-3/4 & 1*



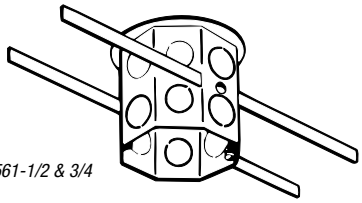
*54581 1/2 & 3/4*



*54591 1/2 & 3/4*

## 4" Octagon Hanging Ceiling Boxes

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | KNOCKOUTS | STD. CTN. |
|---|---|---|---|---|
| *With Conduit KOs* | | | | |
| H-54561-1/2 & 3/4 | 3½ | 41.0 | ½" & ¾" double row | 20 |
| H-54561-3/4 | 3½ | 41.0 | ¾" double row | 20 |



*H-54561-1/2 & 3/4*



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# Concrete/Masonry Boxes and Accessories

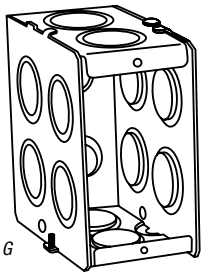


## Gangable Masonry Boxes

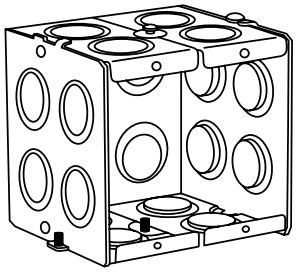
| CAT. NO. | DEPTH (IN.) | HEIGHT (IN.) | LENGTH (IN.) | CU. IN. CAPACITY | ECCENTRIC KNOCKOUTS ½" & ¾" EA. SIDE | EA. END | BOTTOM | STD. CTN. |
|---|---|---|---|---|---|---|---|---|
| ***With Eccentric Conduit KOs*** | | | | | | | | |
| **GW 125 G*** | 2½ | 3¾ | 1 15/16 | 15.0 | 2 | 2 | 2 | 20 |
| **GW 225 G*** | 2½ | 3¾ | 3¾ | 31.6 | 2 | 4 | 4 | 10 |
| **GW 325 G*** | 2½ | 3¾ | 5 9/16 | 47.4 | 2 | 6 | 6 | 5 |
| **GW 425 G** | 2½ | 3¾ | 7⅜ | 64.0 | 2 | 8 | 8 | 5 |
| **GW 525 G** | 2½ | 3¾ | 9 9/16 | 79.0 | 2 | 10 | 10 | 5 |
| **GW-625-G*** | 2½ | 3¾ | 11 | 94.8 | 2 | 12 | 12 | 1 |
| **GW 135 G*** | 3½ | 3¾ | 1 15/16 | 22.0 | 4 | 2 | 2 | 20 |
| **GW 235 G*** | 3½ | 3¾ | 3¾ | 46.9 | 4 | 4 | 4 | 10 |
| **GW 335 G** | 3½ | 3¾ | 5 9/16 | 71.0 | 4 | 6 | 6 | 10 |
| **GW 435 G*** | 3½ | 3¾ | †7⅜ | 93.5 | 4 | 8 | 8 | 5 |
| **GW-535-G** | 3½ | 3¾ | †9 9/16 | 111.7 | 4 | 10 | 10 | 5 |
| **GW-635-G** | 3½ | 3¾ | *†11 | 134.0 | 4 | 12 | 12 | 1 |

** Per NEC®, suitable for use without a bonding jumper in circuits above or below 250 volts.*

*† 4-, 5- and 6-gang supplied with partitions.*



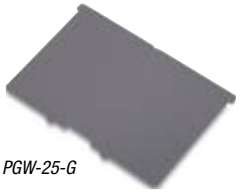
*GW 135 G*



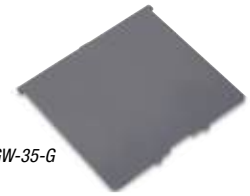
*GW 235 G*

## Masonry Box Partitions

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **PGW-25-G** | Non-metallic partition for 2½"-deep steel tile wall boxes | 25 |
| **PGW-35-G** | Non-metallic partition for 3½"-deep steel tile wall boxes | 25 |

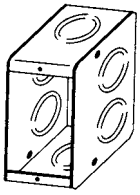


*PGW-25-G*

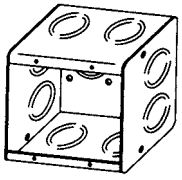


*PGW-35-G*

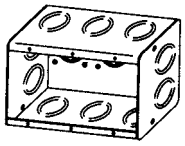
## Shallow Masonry Boxes



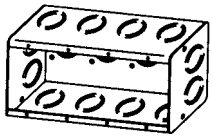
*1-MBS*



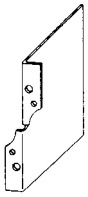
*2-MBS*



*3-MBS*



*4-MBS*

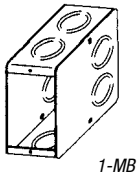


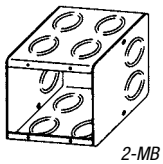
*MBPS*

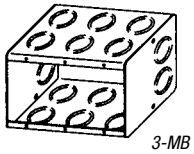
| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | DESCRIPTION | STD CTN. |
|---|---|---|---|---|
| **1-MBS** | 2½ | 16.5 | **A one-gang masonry box, 2½" deep x 3¾" long x 1⅞" wide**<br>Six ½" and two ¾" concentric KOs. Two in each side and one in each end. Uses Steel City® 100 cover | 10 |
| **2-MBS** | 2½ | 33.0 | **A two-gang masonry box, 2½" deep x 3¾" long x 3¾" wide**<br>Eight ½" and two ¾" concentric KOs. Two in each side and two in each end. Uses Steel City® SB-2 cover | 10 |
| **3-MBS** | 2½ | 49.0 | **A three-gang masonry box, 2½" deep x 3¾" long x 5½" wide**<br>Ten ½" and ¾" concentric KOs. Three in each side and two in each end. Uses Steel City® SB-3 cover | 5 |
| **4-MBS** | 2½ | 67.0 | **A four-gang masonry box, 2½" deep x 3¾" long x 7⅜" wide**<br>Twelve ½" and ¾" concentric KOs Four in each side and two in each end. Uses Steel City® SB-4 cover | 5 |
| **MBPS** | 2½ | — | **Masonry Box Partition, 2½" deep x 3¾" wide**<br>A low-voltage partition drilled and tapped for mounting. Furnished with two 8/32 screws. For use with 2-MBS, 3-MBS or 4-MBS boxes | 50 |

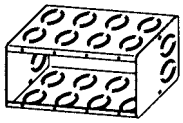
# Concrete/Masonry Boxes and Accessories

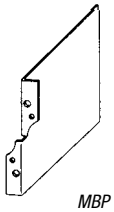
## Deep Masonry Boxes


1-MB


2-MB


3-MB


4-MB


MBP

| CAT. NO. | DEPTH (IN.) | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|---|
| **1-MB** | 3½ | 23.3 | **One-Gang Masonry Box, 3½" deep x 3¾" long x 1⅞" wide**<br>Eight ½" and ¾" concentric KOs. Two in each side and two in each end. Uses Steel City® 100 series covers | 10 |
| **2-MB** | 3½ | 46.8 | **Two-Gang Masonry Box, 3½" deep x 3¾" long x 3¾" wide**<br>Twelve ½" and ¾" concentric KOs. Four in each of two sides and two in each end. Uses Steel City® SB-2 cover | 10 |
| **3-MB** | 3½ | 69.5 | **Three-Gang Box, 3½" deep x 3¾" long x 5½" wide**<br>Sixteen ½" and ¾" concentric KOs. Six in each of two sides and two in each end. Uses Steel City® SB-3 cover | 5 |
| **4-MB** | 3½ | 92.0 | **Four-Gang Masonry Box, 3½" deep x 3¾" long x 7⅜" wide**<br>Twenty ½" and ¾" concentric KOs. Eight in each of two sides and two in each end. Uses Steel City® SB-4 cover | 5 |
| **MBP** | 3½ | — | **Masonry Box Partition, 3½" deep x 3¾" wide**<br>A low-voltage partition drilled and tapped for mounting. Furnished with two 8/32 screws. For use with 2-MB, 3-MB or 4-MB boxes | 50 |

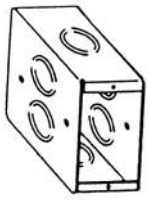
## 1" KO Masonry Box

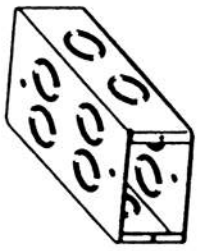
| CAT. NO. | LENGTH (IN.) | CU. IN. CAPACITY | 1" KNOCKOUTS EA. SIDE | 1" KNOCKOUTS EA. END | 1" KNOCKOUTS BOTTOM | STD. CTN. |
|---|---|---|---|---|---|---|
| ***Non-Gangable Single Sang*** | | | | | | |
| **GW 135 NG-1** | 1⅞ | 22 | 2 | 1 | 2 | 10 |

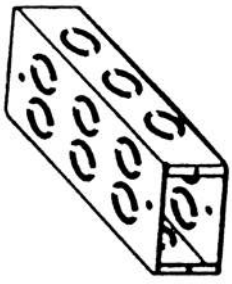

GW 135 NG-1

## Thru-Wall Boxes for Concrete Block

| CAT. NO. | WIDTH (IN.) | HEIGHT (IN.) | DEPTH (IN.) | CU. IN. CAPACITY | KNOCKOUTS (IN.) EA. SIDE CONDUIT | KNOCKOUTS (IN.) EA. END CONDUIT | STD. CTN. |
|---|---|---|---|---|---|---|---|
| ***With Concentric Conduit KOs*** | | | | | | | |
| **CBTW 4** | 2⅛ | 3 11/16 | 3½ | 24.0 | (2) ½–¾ | (1) ½–¾ | 10 |
| **CBTW 6** | 2⅛ | 3 11/16 | 5½ | 38.0 | (4) ½–¾ | (2) ½–¾ | 10 |
| **CBTW 8** | 2⅛ | 3 11/16 | 7½ | 52.3 | (6) ½–¾ | (3) ½–¾ | 10 |


CBTW 4

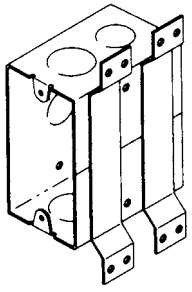

CBTW 6


CBTW 8

## Welded Thru Boxes

| CAT. NO. | CU. IN. CAPACITY | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **4-DWS** | 25.5 | **3 5/16" deep x 4" long x 2⅛" wide**<br>One ½" KO and one ¾" KO both on top, one ½" KO bottom side and one ½" KO on side opposite two flat brackets* | 25 |

*Uses Steel City® and 100 series covers.*


4-DWS



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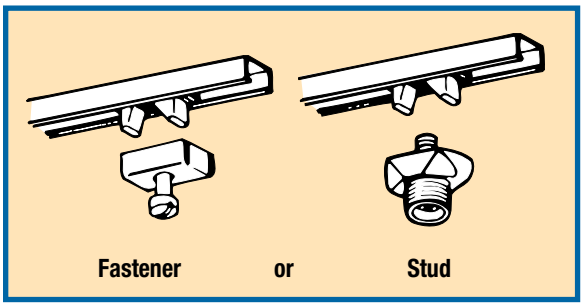
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Tel: 888.862.3289

www.tnb.com

# Adjustable Bar Hangers for Plaster and Drywall



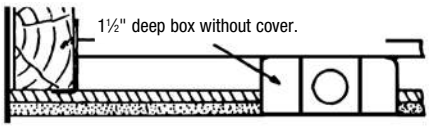
**Packaged complete with either...**

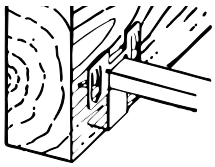



**Ease of Installation:**

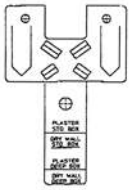
Claws provide temporary support for proper positioning until permanently installed.

**½", ¾", ⅞" Lath and Plaster**



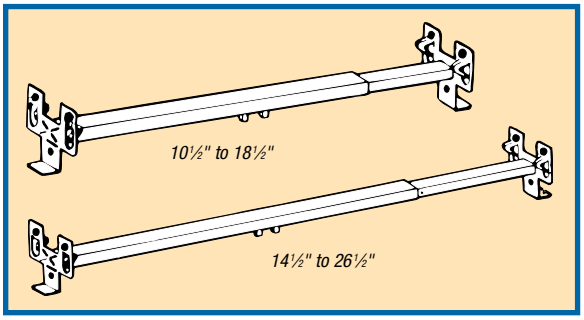



Accurate and automatic positioning on joist.

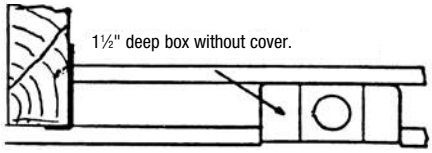


Endplate locator tab is scored and marked for lath and plaster drywall applications with standard and deep boxes.

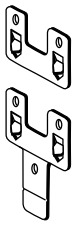
**Two adjustable lengths:**




**⅜", ½" , ⅝" Drywall Board**




Foot straightened gauges for 1½"-deep box with cover or 2⅛"-deep box without cover. With foot broken off gauges for shallow pan box.

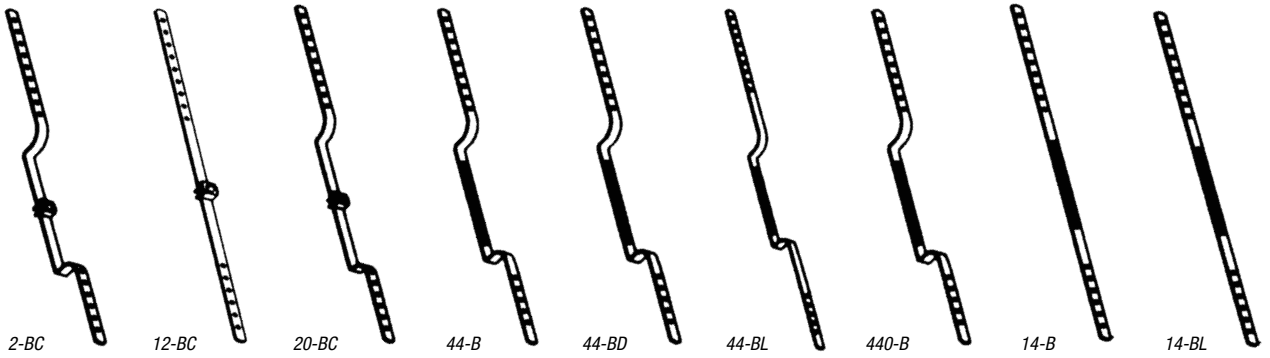


| CAT. NO. | DEPTH OF END PLATE (IN.) | BR LENGTH (IN.) | STUD OR FASTENER | STD. CTN. |
|---|---|---|---|---|
| *For ⅜", ½" and ⅝" Wall Board and Plaster — 50 lb. Max. Load Rating* | | | | |
| **6010DW-25** | 13/16 | 10½–18½ | Stud | 25 |
| **6010ADW-25** | 13/16 | 14½–26½ | Stud | 25 |
| **6011DW-25** | 13/16 | 10½–18½ | Fastener | 25 |
| **6011ADW-25** | 13/16 | 14½–26½ | Fastener | 25 |

**Score marks for drywall and plaster depths.*

# Box Hangers and Supports

## Bar Hangers




| CAT. NO. | DESCRIPTION | STD.CTN. |
|---|---|---|
| 2-BC | **21" LONG**<br>Deep offset bar hanger. Offset 1½" for mounting boxes with plaster ring. Furnished with clip | 50 |
| 12-BC | **20" LONG**<br>Straight bar hanger for mounting pancake boxes. Furnished with clip | 50 |
| 20-BC | **22" LONG**<br>Shallow offset bar hanger. Offset 1" for mounting 1½"-deep boxes without rings. Furnished with clips | 50 |
| 44-B | **22" LONG**<br>Deep offset bar hanger. Offset 1½" for mounting 1½"-deep boxes with plaster ring to bring cover flush with plaster. Furnished with stovebolt | 50 |
| 44-BD | **22" LONG**<br>Extra deep offset bar hanger. Offset 2⅛" for mounting 2⅛"-deep box. Furnished with stovebolt | 50 |
| 44-BL | **26" LONG**<br>Deep offset bar hanger. Offset 1½" for mounting 1½"-deep boxes with plaster ring to bring cover flush with plaster. Furnished with stovebolt | 50 |
| 440-B | **21" LONG**<br>Shallow offset bar hanger. Offset 1" for mounting 1½"-deep boxes without rings. Furnished with stovebolt | 50 |
| 14-B | **20" LONG**<br>Straight bar hanger for mounting ceiling boxes. Furnished with stovebolt | 50 |
| 14-BL | **24" LONG**<br>Straight bar hanger for mounting ceiling boxes. Furnished with stovebolt | 50 |

## Far-Side Box Support

- Provides side support for electrical boxes
- Works with most electrical boxes for 2½", 3½" and 4" metal stud depths

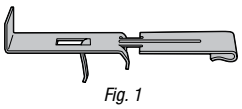
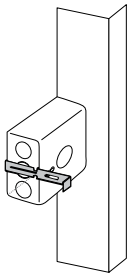
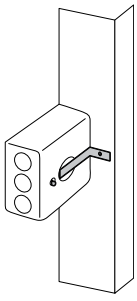

Fig. 1


Fig. 2





| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SS1-TB | 1 | Far-side box support | 100 |
| 50-SC | 2 | Box brace for 4" square or octagonal box | 100 |



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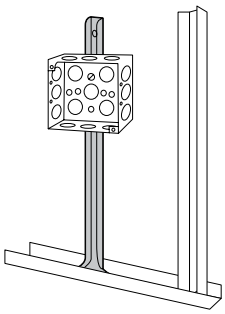
# Box Hangers and Supports

## Floor-Mounted Box Supports

- Mounts on metal or wood studding
- Used as conduit rack or spacer for rigid conduit, IMC or EMT
- Ideal for schools, hospitals, industrial and commercial jobs
- Galvanized steel

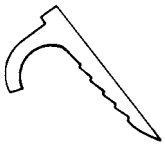


Fig. 1



| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| 7502 | 1 | Footed box supports, 20" height | 25 |
| 7503-SC | 1 | Footed box supports, 30" height | 50 |

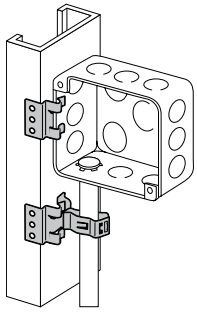
## Pipe Nailers



| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| PN-3-1 | 1" | 1,000 |

## Snap-On Box Clip

- Fits most electrical boxes requiring plaster rings
- Fits most metal stud sizes
- Will not move on stud
- Wider part for more secure fastening
- No screws required
- Support leg braces box against stud
- Installs easily with a hammer
- Adjustable offset enables box to protrude through drywall sizes: ¼", ⅜", ½", ⅝" or ¾"



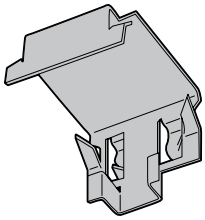


Fig. 1

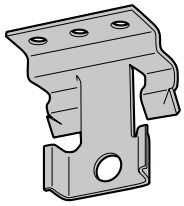
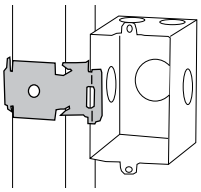


Fig. 2



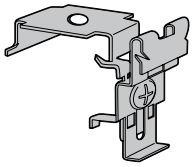


Fig. 3

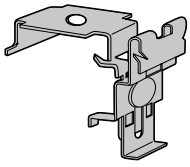


Fig. 4

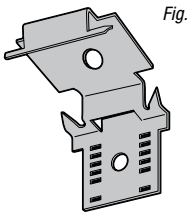


Fig. 5

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SMX | 1 | Snap-on box support for mounting to stud | 100 |
| SSF-SK | 2 | Screw to stud, box support | 100 |
| SF-SFA | 3 | Snap-on box support for mounting to stud, adjustable | 25 |
| SSF-SF0 | 4 | Snap-on box support for mounting to stud, riveted for flush to stud face | 25 |
| SSF-SF1/4 | 4 | Snap-on box support for mounting to stud, riveted for ¼" drywall | 25 |
| SSF-SF3/8 | 4 | Snap-on box support for mounting to stud, riveted for ⅜" drywall | 25 |
| SSF-SF1/2 | 4 | Snap-on box support for mounting to stud, riveted for ½" drywall | 25 |
| SSF-SF5/8 | 4 | Snap-on box support for mounting to stud, riveted for ⅝" drywall | 25 |
| SSF-SF3/4 | 4 | Snap-on box support for mounting to stud, riveted for ¾" drywall | 25 |
| SSF-SFT | 5 | Snap-on box support for mounting to stud with ¼"–20 thread impression | 25 |

## Stud Wall and Drywall Accessories

# Grounding Devices

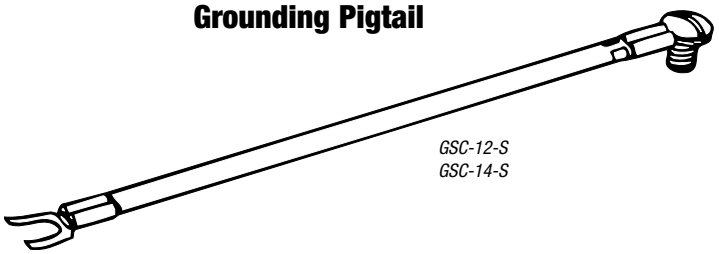


GEE

### Grounding Clip

- For grounding switch and outlet boxes using non-metallic sheathed cables with ground wire
- Grounds #12 and #14 copper and #12 aluminum conductors

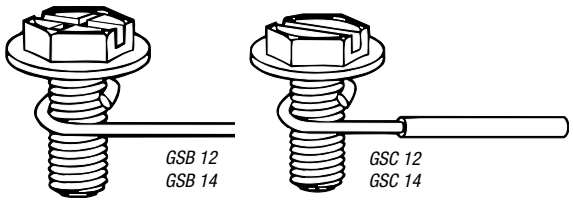
### Grounding Pigtail



GSC-12-S
GSC-14-S

### Grounding Screw and Wire

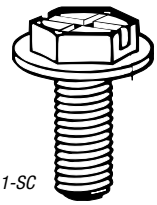
- A prelooped 6"-long bare or insulated copper ground wire attached to a 10-32 x ⅜" hexagon-head washer-face screw, colored green



GSB 12
GSB 14

GSC 12
GSC 14

### Grounding Screw



GS 1-SC

| CAT. NO. | DESCRIPTION | STD. CTN. | UNIT PKG. |
|---|---|---|---|
| ***Grounding Clip*** | | | |
| **GEE** | Zinc-plated, spring-steel, colored green accommodates #12 and #14 copper and #12 aluminum solid conductors in non-metallic sheathed cable. Also approved for connecting bonding jumper from receptacle to grounded metal device box. 50 per unit package | 1,000 | — |
| ***Grounding Screws and Pigtails*** | | | |
| **GSC 12** | 10-32 x ⅜" slotted hexagon-head washer-face ground screw with green dye finish and a six-inch solid copper #12 AWG insulated wire | 1,000 | 100 |
| **GSC-12-S*** | #12 AWG insulated eight-inch stranded pigtail with a captive 10-32 x ⅜" round head screw on one end and a fork-tongue terminal on the other end | 1,000 | 100 |
| **GSC-12-10 1/2** | 10-32 x ⅜" slotted hexagon-head washer-face ground screw with green dye finish and a 10½ inch solid-copper #12 AWG insulated wire | 1,000 | 100 |
| **GSC 14** | 10-32 x ⅜" slotted hexagon-head washer-face ground screw with green dye finish and a six-inch solid-copper #14 AWG insulated wire | 1,000 | 100 |
| **GSC 14 S*** | #14 AWG insulated eight-inch stranded pigtail with a captive 10-32 x ⅜" round head screw on one end and a fork-tongue terminal on the other end | 1,000 | 100 |
| **GSB 12** | 10-32 x ⅜" slotted hexagon-head washer-face ground screw with green dye finish and a six-inch solid-copper #12 AWG bare wire | 1,000 | 100 |
| **GSB 14** | 10-32 x ⅜" slotted hexagon-head washer-face ground screw with green dye finish and a six-inch solid-copper #14 AWG bare wire | 1,000 | 100 |
| **GS 1-SC** | 10-32 x ⅜" slotted hexagon-head washer-face screw with green dye finish. Provides positive ground continuity in boxes with a #10-32 tapped hole | 1,000 | 100 |

** Eight-inch stranded pigtail is also available with a captive 10-32 x ⅜" round-head screw on one end and a fork-tongue terminal on the other end.*



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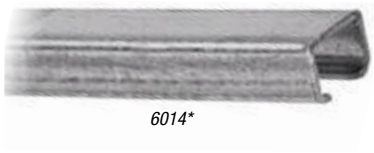
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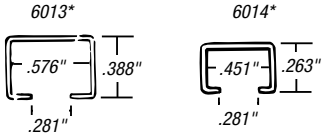
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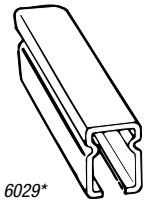
# Stud Wall and Drywall Accessories

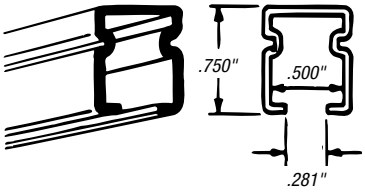


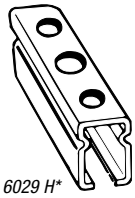
## Channel Bar


6014*





6029*

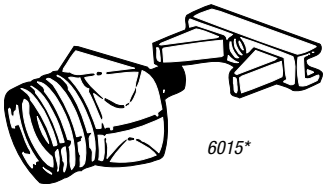


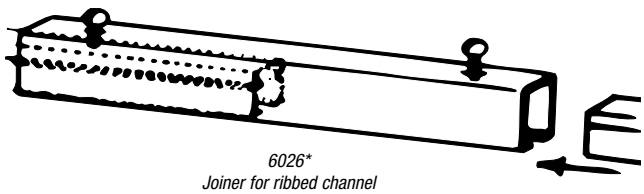


6029 H*

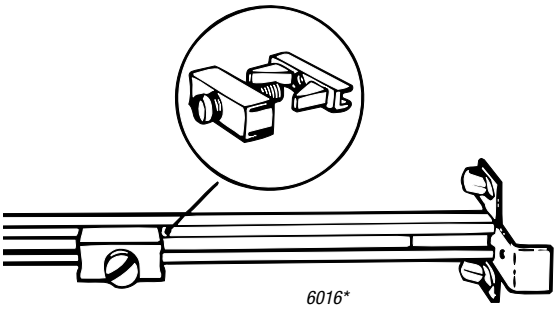
| CAT. NO. | DESCRIPTION | MIN. ORDER (FT.) | STD. CTN. |
|---|---|---|---|
| *Mounts Fixtures, Boxes and Conduits in Suspended Ceilings* | | | |
| **6013*** | 20 ga. single channel bar | 100 | 100 |
| **6014*** | 18 ga. single channel bar | 100 | 100 |
| **6029*** | 16 ga. (.060") ribbed | 100 | 100 |
| **6029 H*** | 16 ga. (.060") ribbed — with holes for #12 sheet-metal screw and ¼" threaded rod | 100 | 100 |

**10-ft. lengths.*

## Box and Channel Fasteners


6015*


6026*
Joiner for ribbed channel


6016*

| CAT. NO. | DESCRIPTION | MIN. ORDER (FT.) | STD. CTN. |
|---|---|---|---|
| **6015*** | Stud and carrier ⅜–18 NPS treading | 100 | 100 |
| **6016*** | Fastener and carrier | 100 | 100 |
| **6026*** | Joiner for 6029 channel | 100 | 100 |

** Minimum order 100 pieces.*

# Stud Wall and Drywall Accessories

## Conduit-to-Metal Stud

- Attaches securely to most metal stud sizes
- Riveted to accommodate your drywall requirements

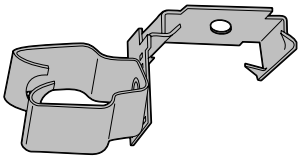


Fig. 1

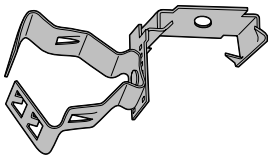


Fig. 2

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **SSF-SF-S1/2** | 1 | Snap on stud, push-in conduit clip, ½" conduit | 25 |
| **SSF-SF-S3/4** | 1 | Snap on stud, push-in conduit clip, ¾" conduit | 25 |
| **SSF-SF-S1** | 1 | Snap on stud, push-in conduit clip, 1" conduit | 25 |
| **SSF-SF-C3/8** | 2 | Snap on stud, conduit support clip, ⅜" conduit or MC/AC cable | 25 |
| **SSF-SF-C1/2 3/4** | 2 | Snap on stud, conduit support clip, ½"– ¾" conduit | 25 |
| **SSF-SF-C1** | 2 | Snap on stud, conduit support clip, 1" conduit | 25 |
| **SSF-SK-C1/2 3/4** | 3 | ½"–¾" finger close conduit clip | 25 |
| **SSF-SK-C1** | 3 | 1" finger close conduit clip | 25 |
| **SSF-SK-S1/2** | 4 | ½" snap-in conduit clip | 25 |
| **SSF-SK-S3/4** | 4 | ¾" snap-in conduit clip | 25 |
| **SSF-SK-S1** | 4 | 1" snap-in conduit clip | 25 |

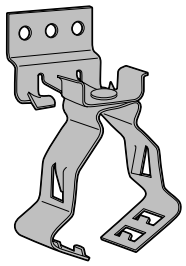


Fig. 3

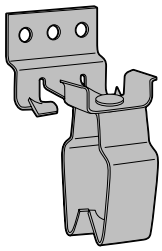
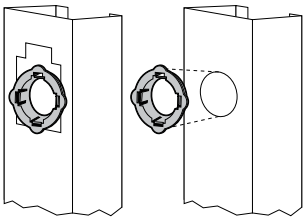


Fig. 4

## Easy-Snap Grommet

- Fits any size or shape metal stud hole
- Provides complete 360° protection for cable



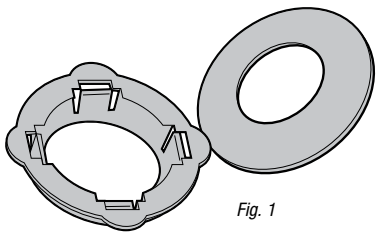


Fig. 1

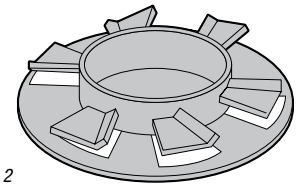


Fig. 2

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **1300** | 1 | Plastic bushing for metal stud 1" trade size opening (1 11/32") | 100 |
| **1216-EN** | 2 | Twisted universal bushing for metal stud | 50 |



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# Stud Wall and Drywall Accessories



## Through-Stud Cable Conduit Support

- A quick means of support for horizontal runs of conduits or MC/AC through metal stud
- Installs easily with a screw gun
- SSF-SPI enables ENT conduit and MC/AC cable to be easily pulled through metal stud

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SAB-C1/2 3/4 | 1 | ½" or ¾" finger close conduit clip | 25 |
| SSF-SAB-C3/8 | 1 | Finger-close conduit clip 14-2 thru 12-3 MC/AC cable and ⅜" conduit | 25 |
| SSF-SAB-S1/2 | 2 | Snap-in conduit clip — ½" conduit | 25 |
| SSF-SAB-S3/4 | 2 | Snap-in conduit clip — ¾" conduit | 25 |
| SSF-SP1 | 3 | Supports up to 1" conduit | 100 |

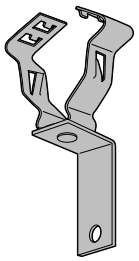


Fig. 1

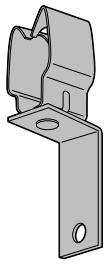
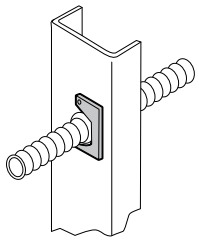


Fig. 2

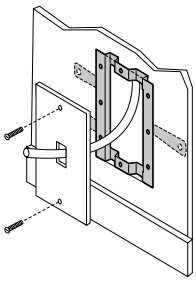


Fig. 3



## Low-Voltage Mounting Brackets — Screw-On Support

- Eliminates the need for an electrical box when installing low-voltage Class 2 wiring
- For old work or new work



| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SLV | 1 | Old-work or new work low-voltage bracket | 100 |
| VN1 | 2 | Non-metallic single-gang new-work low-voltage bracket | 50 |
| VN2 | — | Non-metallic two-gang new-work low-voltage bracket | 50 |
| VW1 | 3 | Non-metallic single-gang old-work low-voltage bracket | 50 |
| VW2 | — | Non-metallic two-gang old-work low-voltage bracket | 50 |
| WBF-1 | 4 | Low-voltage mounting bracket with screws | 100 |



Fig. 1



Fig. 2



Fig. 3

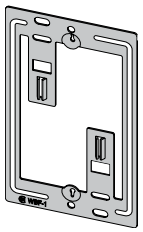
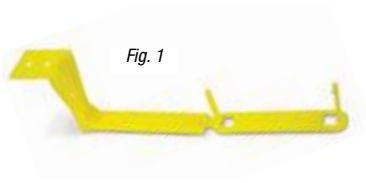


Fig. 4

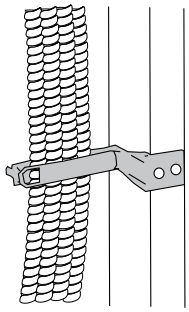
# Stud Wall and Drywall Accessories

## Cable Support

- Supports up to four runs of MC and AC cable and up to six runs of non-metallic sheathed cable
- Installs with nails or staples or sheet-metal screws
- Complies with NEC® 300-4d for all wood and metal studs
- Made with high-strength plastic


Fig. 1

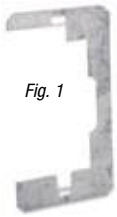
| CABLE TYPE | CABLE SIZE | MAX. QTY./ FASTENER |
|---|---|---|
| Non-Metallic Sheathed Cable | #14-2, #12-2, #10-2, #14-3, #12-3 and #10-3 with Ground | 6 |
| Non-Metallic | #8-2 and #6-2 with Ground | 4 |
| Metallic Clad (MC) Cable and #10-4 with Ground | #14-2, #12-2, #10-2, #14-3, #12-3, #10-3, #14-4, #12-4 | 4 |
| Armored Cable (AC) | #14-4, #12-2, #10-2, #8-2, #14-3, #12-3, #10-3, #14-4, #12-4 and #10-4 with Ground | 4 |
| Flexible Conduit (BX) | 5/16, 3/8 | 4 |

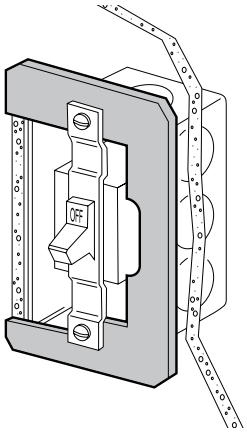


| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SC6 | 1 | Non-Metallic Sheathed MC/AC Cable to Stud Clip | 100 |

## Device Leveler and Retainer

- Use for oversized drywall openings
- Prevents broken cover plates
- Stops device from being pushed back in wall
- Makes floating device rigid


Fig. 1



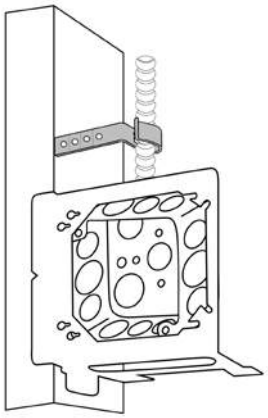
| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SR | 1 | Single-Gang Device Leveler and Retainer | 100 |

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

## Screw-On Conduit Support

- Supports ½" and ¾" EMT conduit and MC/AC cable
- Works with wood or metal stud
- Preset bend provides alignment with knockouts for 1½"-deep boxes or 2⅛"-deep boxes


Fig. 1



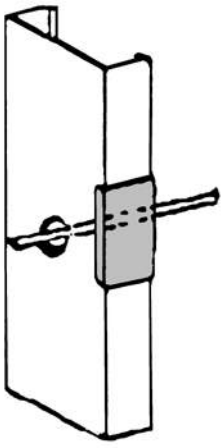
| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SS1/2 3/4 | 1 | ½" and ¾" EMT Conduit and MC/AC to Metal or Wood Stud. For 1½"-Deep Box | 100 |
| SSF-SS1/2 3/4D | 1 | ½" and ¾" EMT Conduit Metal or Wood Stud. For 2⅛"-Deep Box | 100 |

## Protector Plates

- Protects cable(s) from damage when installing drywall or paneling
- No nails or screws required
- Fits all stud sizes
- Both products meet requirements for NEC® 300-4
- ST66 legs are crimped with pliers to stud to provide secure fit


Fig. 1


Fig. 2



| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-ST66 | 1 | Protector Plate for Metal Stud | 100 |
| 66EP | 2 | Protector Plate for Wood Stud | 100 |



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Carlon®

# Carlon® Non-Metallic Boxes



## In this section...



### Carlon® Non-Metallic Boxes


Overview ..... A-68–A-69
Carlon® Blue™ PVC Boxes ..... A-70–A-76
Carlon® SuperBlue® Boxes ..... A-77–A-79
Polycarbonate Boxes ..... A-80–A-91
Phenolic Boxes ..... A-92–A-104
Non-Metallic Covers and Accessories ..... A-105–A-106
Low-Voltage Structured Cable Management System ..... A-107–A-120


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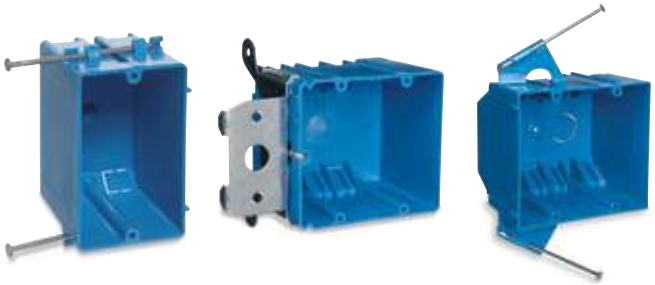
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## Overview

# Recognized as the Industry Standard in Non-Metallic Boxes.

### Carlon® PVC Carlon® Blue™ PVC Boxes

Carlon® non-metallic boxes feature PVC construction for easier installation, greater performance and lower installation cost. Designed and listed for use with non-metallic sheathed cable in accordance with Article 314 of the National Electrical Code®, they make fast work of any residential or light commercial application. Look for the trademarked color blue to be sure it is a quality Thomas & Betts PVC Box.



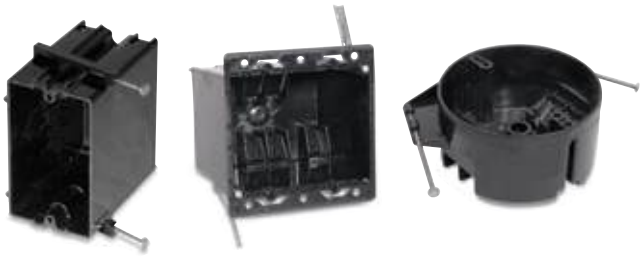
### Carlon SuperBlue® Carlon® SuperBlue® Boxes

Carlon® Super Blue® provides all of the desired features of a PVC box with the strength and durability of the heavy wall boxes. Rigid enough not to flex when nailed to a stud and strong enough to withstand a hammer blow in cold temperatures.



### Carlon® PC Carlon® Black Polycarbonate Boxes

Carlon® non-metallic boxes feature a rugged polycarbonate construction to withstand extreme temperatures. The boxes will not distort or soften in heat and they won't become brittle in the cold.



### Carlon® PH Carlon® Brown Phenolic Boxes

New Fire Rating! Carlon® phenolic boxes can be installed in the same stud cavity of a shared two-hour wall. They may also face opposite directions with only a 3" horizontal separation — ideal for multi-family construction!



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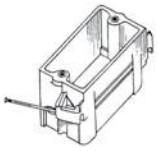
# Overview

### Bottom Nailed



Most widely accepted for universal use

### Compound Angled Nails



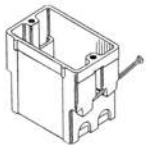
For easy installation and positioning in limited space

### Reverse Angled Side Nails



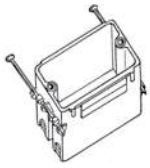
For use when installed from backside of drywall

### Recessed Angle Nails



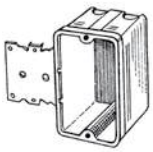
For quick positioning on narrow stud spacing

### Angled Side Nails



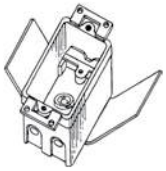
For quick positioning on narrow stud spacing

### SB, #5, #7 Offset Brackets



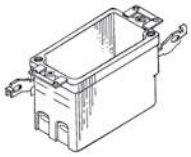
For face mount on wood or steel studs

### Ears, #8 Bracket



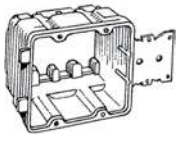
Snap-in bracket secures box to wall

### Ears, #4 Bracket



Swing bracket swings into place, secures box to wall

### #738 Offset Bracket



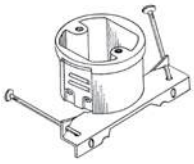
With ⅜" offset for face mount on wood or steel studs

### Ears



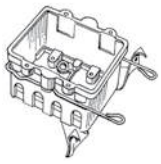
For screw mounting direct to paneling

### "N" Bracket



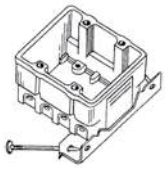
Easily positioned for maximum use of box depth

### #2 Bracket



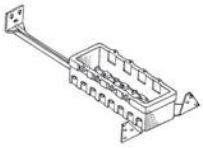
Sturdy side-mounting bracket, support wire adds rigidity

### "R" Bracket



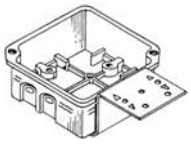
Reverse angled nails for use with narrow stud spacing

### Side Bracket Stabilizer Bar



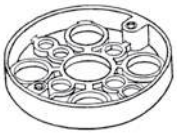
Bar extends for rigid installation between studs

### #1 Raised Face Bracket



For wood or steel studs, allows for ½" mud ring, ½" drywall

### Nails or Screws



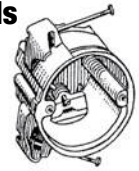
Through bottom

### Screw Mount



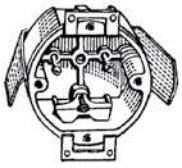
Flange with flash ring

### Compound Angled Side Nails



For easy installation and positioning in limited space

### Screws, #9 Snap-in Bracket



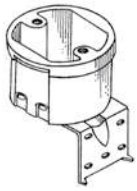
Snap-in bracket secures box to wall

### #94, #95 Bar Hangers (16" and 24")



For easy installation, exact centering of ceiling boxes

### #3 Bracket



Easily positioned for maximum use of box depth

### High Clamp Feature



For easy cable entry

### Fast Set Feature



For fast device mounting

### Angled Screws



For fast mounting on steel stud

### Non-Metallic Clamp



For easy cable entry

# Carlon® Blue™ PVC Boxes

Carlon® non-metallic boxes feature PVC construction for easier installation, greater performance and lower installation cost. Designed and listed for use with non-metallic sheathed cable in accordance with Article 314 of the National Electrical Code®, they make fast work of any residential or light commercial application.

- All PVC boxes are listed to UL514C
- All PVC boxes are listed for masonry walls
- All PVC boxes are UL Classified for two-hour fire wall and/or fire ceiling
- All PVC boxes meet NEMA OS-2
- All PVC boxes are permissible for use with 90° C conductors
- UL File E11461 and R9140

## One-Gang Adjustable — For New Work

- Design enables adjustment from 0" to 1¾" after installation
- Ideal for new work or retrofit upgrade applications
- Backless low-voltage bracket and floor box designs available
- Ideal for various drywall thicknesses and wall finishes

Carlon Exclusive



B121ADJ

### One-Gang Adjustable 21.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B121ADJ** | 21.0 | Adjustable Bracket | Adjusts 0"–1¾" | 3.65 L x 2.25 W x 3.32 D | 24 |

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

## One-Gang Nail-On — For New Work



B118A



N1-710-M



RN-18-FS



SNO-18



B120A-UPC



RN-21-FS

### One-Gang Nail-On 18.0–20.5 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B118A** | 18.0 | Captive Nails | — | 3¾ L x 2¼ W x 2⅞ D | 100 |
| **N1-710-M** | 18.0 | Reverse Angled Side Nails | 7/32" Offset Wallboard Tabs | 3¾ L x 2¼ W x 2 11/16 D | 100 |
| **RN-18-FS** | 18.0 | Recessed Angled Nails | Fast-Set | 3 21/32 L x 2 5/16 W x 3 D | 100 |
| **SNO-18** | 18.0 | Angled Side Nails | Hinge Closure | 4 1/16 L x 2 5/16 opening 3 5/16 overall W x 1¾ D | 100 |
| **SNO-18-M** | 18.0 | Angled Side Nails | Locating Tab Hinge Closure 3/16" Offset Wall Board Tabs | 4 1/16 L x 2 5/16 opening 3 5/16 overall W x 1¾ D | 100 |
| **B120A-UPC** | 20.0 | Captive Nails | — | 3⅜ L x 2¼ W x 3¼ D | 100 |
| **RN-21-FS** | 20.5 | Recessed Angled Nails | Fast-Set | 3 21/32 L x 2 5/16 W x 3⅜ D | 100 |



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# Carlon® Blue™ PVC Boxes

## One-Gang Nail-On — For New Work

### One-Gang Nail-On 22.0–22.5 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B122A-UPC** | 22.0 | Captive Nails | — | 3¾ L x 2¼ W x 3½ D | 100 |
| **RN-23** | 22.5 | Recessed Angled Nails | — | 3 21/32 L x 2 5/16 W x 3⅜ D | 100 |
| **RN-23-FS** | 22.5 | Recessed Angled Nails | Fast-Set | 3 21/32 L x 2 5/16 W x 3⅜ D | 100 |



*B122A-UPC*



*RN-23*



*RN-23-FS*

### One-Gang Nail-On 30.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **RD-30** | 30.0 | Recessed Angled Nails | Large KO for #6 or #8 Cable | 3 1/16 L x 2 5/16 opening 3⅞ overall W x 3⅝ D | 50 |



*RD-30*

## One-Gang Brackets — For New Work

### One-Gang Brackets 8.0–18.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B108B-UPC** | 8.0 | Bracket | — | 3⅝ L x 2⅜ W x 1¼ D | 25 |
| **B118B-UPC** | 18.0 | Bracket for ⅜" to ⅝" Wallboard – Steel and Wood Stud Mounting | — | 3¾ L x 2¼ W x 2 15/16 D | 5 |
| **MB-18 •** | 18.0 | Molded Side Bracket for Wood/Steel Studs | ½" Depth Gage Lever Clamps | 3 21/32 L x 2 5/16 W x 2 15/16 D | 100 |
| **MB-18-FS •** | 18.0 | Molded Side Bracket for Wood/Steel Studs | Fast-Set | 3 21/32 L x 2 5/16 W x 2 15/16 D | 100 |

• *Manufactured housing — MB-18 and MB-18-FS.*



*B108B-UPC*



*B118B-UPC*



*MB-18*



*MB-18-FS*

# Carlon® Blue™ PVC Boxes

## Two-Gang Adjustable — For New Work

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- Backless low-voltage bracket and floor box designs available
- Ideal for various drywall thicknesses and wall finishes

Carlon® Exclusive



B234ADJ

### Two-Gang Adjustable 34.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B234ADJ** | 34.0 | Adjustable Bracket | Adjusts 0"–1¾" | 4 W x 3⅝ H x 3 D | 16 |
| **B234ADJC** | 34.0 | Adjustable Bracket | Large 220V Knockout | 5⅝ W x 3⅝ H x 3 D | 16 |

## Two-Gang Nail-On — For New Work



B232A-UPC



N2-1614-RNC



SN-236-V



SN-241



N2-1614-MNC



SN-236



SN-236-FS



SN-241-FS

### Two-Gang Nail-On 32.0–41.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B232A-UPC** | 32.0 | Captive Nails | — | 3¾ L x 4 W x 3 D | 50 |
| **N2-1614-MNC** | 32.0 | Angled Side Nails | 7/32" Offset Wallboard Tabs Cable-Lok™ Clamps Bulk Packed | 4 1/16 L x 3⅝ W x 2¾ D | 50 |
| **N2-1614-RNC** | 32.0 | Angled Side Nails | No Wallboard Tabs Cable-Lok™ Clamps Bulk Packed | 4 1/16 L x 3⅝ W x 2¾ D | 50 |
| **SN-236** | 36.0 | Compound Angled Nails | ⅜" Offset Wallboard Tabs Molded Fast Clamp | 4 L x 3⅝ W x 3⅛ D | 50 |
| **SN-236-FS** | 36.0 | Compound Angled Nails | ⅜" Offset Wallboard Tabs Molded Fast Clamp/Fast Set | 4 L x 3⅝ W x 3⅛ D | 50 |
| **SN-236-V** | 36.0 | Compound Angled Nails | ⅜" Offset Wallboard Tabs Molded V-Clamp | 4 L x 3⅝ W x 3⅛ D | 50 |
| **SN-241** | 41.0 | Compound Angled Nails | ⅜" Offset Wallboard Tabs Molded Fast Clamp | 4 L x 3⅝ W x 3⅝ D | 50 |
| **SN-241-FS** | 41.0 | Compound Angled Nails | ⅜" Offset Wallboard Tabs Molded Fast Clamp/Fast Set | 4 L x 3⅝ W x 3⅝ D | 50 |

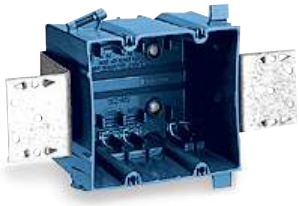
## Two-Gang Bracket — For New Work

### Two-Gang Bracket 32.0–36.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B232B-UPC** | 32.0 | Bracket for ⅜" to ⅝" Wallboard — Steel or Wood Stud Mounting | — | 3¾ L x 4 W x 3 D | 50 |
| **SB2-236-FS** | 36.0 | Two ⅜" Offset Wallboard Tabs; Molded Fast Clamps/Fast Set | ⅜" Offset | 3 3/16 L x 4 W x 3 3/16 D | 20 |



B232B-UPC



SB2-236-FS



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# Carlon® Blue™ PVC Boxes



## Three-Gang Adjustable — For New Work

- Design enables adjustment from 0" to 1¾" after installation
- Ideal for new work or retrofit upgrade applications
- Backless low-voltage bracket and floor box designs available
- Ideal for various drywall thicknesses and wall finishes

Carlon® Exclusive



B349ADJ

### Three-Gang Adjustable 49.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B349ADJ** | 49.0 | Adjustable Bracket | Adjusts 0"–1¾" | 5 13/16 L x 3 5/8 W x 3 D | 16 |

## Three-Gang Nail-On — For New Work



B344AB

### Three-Gang Nail-On 44.0–56.5 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B344AB** | 44.0 | Captive Nails and Bracket Support | — | 5⅝ L x 3¾ W x 2 11/16 D | 30 |
| **SN-357** | 56.5 | Compound Angled Nails | ⅜" Offset Wallboard Tabs Molded Fast Clamp | 5 13/16 L x 3⅝ W x 3 7/16 D | 20 |
| **SN-357-FS** | 56.5 | Compound Angled Nails | ⅜" Offset Wallboard Tabs Molded Fast Clamps/Fast Set | 5 13/16 L x 3⅝ W x 3 7/16 D | 20 |



SN-357-FS



SS-357

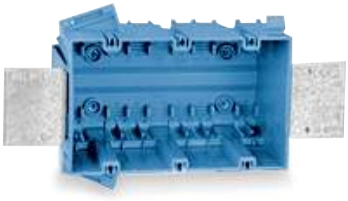
## Three-Gang Bracket — For New Work

### Three-Gang Bracket 56.5 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **SB-357** | 56.5 | One ⅜" Offset Bracket for Wood/Steel Studs | ⅜" Wallboard Tabs Molded Fast Clamps/Fast Set | 3⅝ L x 5 13/16 W x 3 7/16 D | 30 |
| **SB2-357-FS** | 56.5 | Two ⅜" Offset Brackets for Wood/Steel Studs | ⅜" Wallboard Tabs Molded Fast Clamps/Fast Set | 3⅝ L x 5 13/16 W x 3 7/16 D | 20 |



SB-357



SB2-357-FS

# Carlon® Blue™ PVC Boxes

## Four-Gang Nail-On — For New Work



*B455A-UPC*



*B455AH*

### Four-Gang Nail-On 55 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B455AH** | 55.0 | Captive Nails, Bracket Support and Hanger Bar | — | 7⅜ L x 3⅞₁₀ W x 2½ D | 25 |
| **B455A-UPC** | 55.0 | Captive Nails and Bracket Support | — | 7⅜ L x 3⅞₁₀ W x 2½ D | 25 |

## 4" Square — For New Work



*B418A-UPC*



*4S-812C*



*B432A-UPC*

### 4" Square 18.0–32.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **4S-812C** | 18.0 | Angled Side Nails | — | 1⁷⁄₁₆ D x 4 W x 4 L | 100 |
| **B418A-UPC** | 18.0 | Captive Nails | — | 1⅝ D x 4 W x 4 L | 75 |
| **B432A-UPC** | 32.0 | Captive Nails | — | 2⅝ D x 4 W x 4 L | 50 |



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## Carlon® Blue™ PVC Boxes

# One-Gang — For Old Work



*B114R-UPC*



*B108R-UPC*

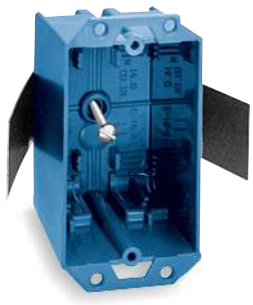


*B117RSW*

### One-Gang 8.0–17.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B108R-UPC •** | 8.0 | Mounting Ears | — | 3⅜ L x 2⅜ W x 1¼ D | 25 |
| **B114R-UPC •** | 14.0 | Mounting Ears and Swing Clamps | — | 4⅛ L x 2¼ W x 2¾ D | 50 |
| **B117RSW •** | 17.0 | Mounting Ears and Swing Clamps | Access Panel | 3.64 L x 4.07 W x 2.00 D (2.20 opening) | 30 |

• *Not UL Classified for Fire Resistance.*



*E-16-8*



*E18-4*



*B120R*

### One-Gang 16.0–20.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD.CTN. |
|---|---|---|---|---|---|
| **E-16-8** | 16.0 | Thermoplastic Molded Ears #4 Snap-In | Molded Fast Clamps | 3½ L x 2¼ W x 2$^{11}/_{16}$ D | 50 |
| **E-18-4** | 18.0 | Thermoplastic Molded Ears #4 Swing Brackets | Integral Molded V-Clamp | 3$^{25}/_{32}$ L x 2$^{7}/_{32}$ W x 2¼ D | 100 |
| **B120R •** | 20.0 | Mounting Ears and Swing Bracket | — | 4⅛ L x 2$^{5}/_{16}$ W x 3⅜ D | 50 |

• *Not UL Classified for Fire Resistance.*

# Carlon® Blue™ PVC Boxes

## Two-Gang — For Old Work



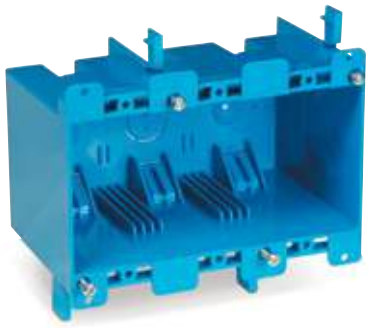
B225R-UPC

### Two-Gang 25.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B225R-UPC** • | 25.0 | Mounting Ears and Two Swing Clamps | — | 3 15/16 L x 3 1/8 W x 2 3/4 D | 30 |

• *Not UL Classified for Fire Resistance.*

## Three-Gang — For Old Work



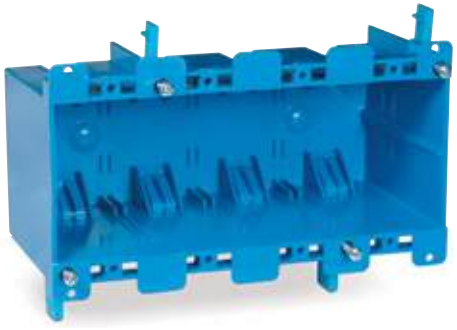
B355R

### Three-Gang 55.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B355R** • | 55.0 | Mounting Ears and Two Swing Clamps | — | 5.72 L x 2.79 W x 3.69 D | 6 |

• *Not UL Classified for Fire Resistance.*

## Four-Gang — For Old Work



B468R

### Four-Gang 68.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B468R** • | 68.0 | Mounting Ears and Two Swing Clamps | — | 7.57 L x 2.89 W x 3.56 D | 6 |

• *Not UL Classified for Fire Resistance.*



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# Carlon® SuperBlue® Boxes

Combine the features of the hard-shell thermoset box and the thermoplastic PVC-style box to create a "new" rigid non-metallic wiring box. Molded out of specially formulated thermoplastic material, Carlon® SuperBlue® boxes are so strong they won't crack or break in extreme environments. So rigid that they resist flexing and hold their shape even in the most challenging applications. The boxes are designed to nest inside each other to take up less space on the shelf or in the truck, while still providing the largest wirefill capacity in their class.

- All PVC boxes are listed to UL514C
- All PVC boxes are listed for masonry walls
- All PVC boxes are UL® Classified for two-hour fire wall and/or fire ceiling
- All PVC boxes meet NEMA OS-2
- All PVC boxes are permissible for use with 90° C conductors
- UL File E11461 and R9140

## One-Gang — For New Work



*BH122A-UPC*

### One-Gang 22.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **BH122A-UPC** | 22.0 | Nails | One-Gang | 3.55 L x 2.11 W x 3.63 D | 100 |
| **BH122S** | 22.0 | Screws | One-Gang | 3.55 L x 2.11 W x 3.63 D | 100 |

## Two-Gang — For New Work



*BH235A*

### Two-Gang 35.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **BH235A** | 35.0 | Nails | Two-Gang | 3.55 L x 2.11 W x 3.50 D | 48 |
| **BH235S** | 35.0 | Screws | Two-Gang | 3.55 L x 2.11 W x 3.50 D | 48 |

# Carlon® SuperBlue® Boxes

## Three-Gang — For New Work

### Three-Gang 53 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **BH353A** | 53.0 | Nails | Three-Gang | 3.53 L x 5.66 W x 3.50 D | 24 |
| **BH353S** | 53.0 | Screws | Three-Gang | 3.53 L x 5.66 W x 3.50 D | 24 |



*BH353A*

## Four-Gang — For New Work

### Four-Gang 64 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **BH464A** | 64.0 | Nails | Four-Gang | 3.53 L x 7.46 W x 3.18 D | 36 |
| **BH464S** | 64.0 | Screws | Four-Gang | 3.53 L x 7.46 W x 3.18 D | 36 |



*BH464A*

## One-Gang — For Old Work

### One-Gang 18.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **BH118R •** | 18.0 | Mounting Ears & Swing Clamps | One-Gang | 4.30 L x 2.56 W x 3.64 D | 36 |

• *Not UL Classified for Fire Resistance.*



*BH118R*

## Two-Gang — For Old Work

### Two-Gang 34.0 Cu. In..

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **BH234R •** | 34.0 | Mounting Ears & Swing Clamps | Two-Gang | 4.30 L x 4.36 W x 3.59 D | 18 |

• *Not UL Classified for Fire Resistance.*



*BH234R*



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# Ceiling Boxes



### 3/0–4/0 Combination 25.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **BH525A-UPC** • | 25.0 | Nails | Ceiling Box | 4 Dia. x 3.00 D | 48 |
| **BH525P** • | 25.0 | Nails and Grounding Lug | Ceiling Box | 4 Dia. x 3.00 D | 24 |

• *Listed for fixture support up to 50 lbs.*



*BH525A-UPC*



*BH525P*

### Fan Box 25.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **BH525L** • | 25.0 | Nails | Ceiling Fan Box | 4 Dia. x 3.06 D | 24 |
| **BH525LP** • | 25.0 | Grounding Lug with Nails | Ceiling Fan Box | 4 Dia. x 3.00 D | 24 |

• *Listed for fan support up to 35 lbs. and fixture support up to 50 lbs.*



*BH525L*

### Ceiling Box with Hanger Bar 25.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **BH525H** • | 25.0 | Hanger Bar 11½"–18½" | Ceiling Box | 4 Dia. x 2.95 D | 20 |
| **BH525HP** • | 25.0 | Hanger Bar 11½"–18½", Grounding Lug | Ceiling Box | 4 Dia. x 2.95 D | 20 |

• *Listed for fixture support up to 50 lbs.*



*BH525H*

### 3½" 14.5 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **BH614R** • † | 14.5 | Base, Ears & Snap-In Bracket | Round Old/ New Work Box | 3½ Dia. | 24 |
| **BH614RP** • † | 14.5 | Base, Ears & Snap-In Bracket | Round Old/New Work Box w/ Ground Lug | 3½ Dia. | 24 |

• *Listed for wall fixture support up to 10 lbs.*

† *Tighten screws to 10 in.-lbs.*



*BH614R*

## Polycarbonate Boxes

# Carlon® Black Polycarbonate Boxes

Carlon® non-metallic boxes feature a rugged polycarbonate construction to withstand extreme temperatures. The boxes will not distort or soften in heat and they won't become brittle in the cold.

- All Polycarbonate boxes are listed to UL514C
- All Polycarbonate boxes are listed for masonry walls
- All Polycarbonate boxes are UL® Classified for 2-hr. fire wall and/or fire ceiling
- All Polycarbonate boxes meet NEMA OS-2
- All Polycarbonate boxes are permissible for use with 90° C conductors
- UL® File E11461 and R9140

## Grip-On GO Box® Single-Gang Outlet Box

NEW!

- Instead of nails or other fasteners, unique clamps are used to hold the box securely in place. Simply push onto the stud and go
- The GO Box® outlet box is removable for easy repositioning
- "Fast-Set" mounting holes enable quick installation of devices
- Perfectly aligned every time
- Perfect for drywall depth
- A locator hole in the mounting bracket helps position the box on marked studs for accurate installation
- The GO Box® design is UL® Listed
- 23.0 cu. in. capacity accommodates large devices and enables easy installation of wiring

It's a whole new ball game for high-volume residential products. That's because the Carlon® GO Box® product line is one of the most revolutionary labor-saving products ever designed. The GO stands for "Grip-On" and that's exactly how it works. Just push the box onto a stud and the specially designed clamps hold it in place. No tools or fasteners are required, reducing installation time, which means you can move on to the next job. When it comes to lower installed costs, this changes everything!




### One-Gang 23.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **GO-23** | 23.0 | Grip-On Bracket | — | 3¾ L x 2⅜ W x 2½ D | 30 |
| **GO-23-FS** | 23.0 | Grip-On Bracket | Fast-Set | 3¾ L x 2¼ W x 2¹¹⁄₁₆ D | 30 |

## One-Gang Nail-On 18.0–22.5 Cu. In.


*118-N*


*120-N*


*120-N-FS*


*122-N*


*122-N-FS*

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **118-N** | 18.0 | Angled Side Nails | — | 3¾ L x 2¼ W x 2⅛ D | 100 |
| **120-N** | 20.3 | Angled Side Nails | — | 3¾ L x 2¼ W x 3⅜₆ D | 100 |
| **120-N-FS** | 20.3 | Angled Side Nails | Fast-Set | 3¾ L x 2¼ W x 3⅜₆ D | 100 |
| **122-N** | 22.5 | Angled Side Nails | — | 3¾ L x 2¼ W x 3⅜₆ D | 100 |
| **122-N-FS** | 22.5 | Angled Side Nails | Fast-Set | 3¾ L x 2¼ W x 3⅜₆ D | 100 |



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## Polycarbonate Boxes

# New Work Boxes

### One-Gang Brackets 18.0–22.5 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **118-LB** | 18.0 | Molded Side Bracket for Wood/Steel Studs | — | 3¾ L x 2¼ W x 2⅞ D | 100 |
| **118-LBP** | 18.0 | Molded Side Bracket for Wood/Steel Studs | POSI-SET® Fast-Set | 3¾ L x 2¼ W x 2⅞ D | 100 |
| **120-LB** | 20.3 | Molded Side Bracket for Wood/Steel Studs | — | 3¾ L x 2¼ W x 3⁵⁄₁₆ D | 100 |
| **120-LBP** | 20.3 | Molded Side Bracket for Wood/Steel Studs | POSI-SET® Fast-Set | 3¾ L x 2¼ W x 3⁵⁄₁₆ D | 100 |
| **122-LB** | 22.5 | Molded Side Bracket for Wood/Steel Studs | — | 3¾ L x 2¼ W x 3⅝ D | 100 |
| **122-LBP** | 22.5 | Molded Side Bracket for Wood/Steel Studs | POSI-SET® Fast-Set | 3¾ L x 2¼ W x 3⅝ D | 100 |



*118-LB*



*118-LBP*



*120-LB*



*120-LBP*



*122-LB*



*122-LBP*

### Two-Gang Nail-On 34.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **234-N** | 34.0 | Angled Side Rails | POSI-WEDGE® Cable Clamps | 3¾ L x 4 W x 3³⁄₃₂ D | 50 |
| **234-NP** | 34.0 | Angled Side Rails | POSI-WEDGE® POSI-SET® | 3¾ L x 4 W x 3³⁄₃₂ D | 50 |



*234-N*



*234-NP*

### Two-Gang Bracket 34.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **234-LB** | 34.0 | Steel Side Bracket for Wood/Steel Studs | POSI-WEDGE® Cable Clamps | 3¾ L x 4 W x 3³⁄₃₂ D | 50 |



*234-LB*

## Polycarbonate Boxes

# New Work Boxes

### Three-Gang Nail-On 45.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **345-N** | 45.0 | Angled Side Nails & Steel Side Brackets | POSI-WEDGE® Cable Clamps | 3¾ L x 5 13/16 W x 2¾ D | 20 |



*345-N*

### Three-Gang Bracket 45 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **345-LB** | 45.0 | Steel Side Bracket for Wood/Steel Studs | POSI-WEDGE® Cable Clamps | 3¾ L x 5 13/16 W x 2¾ D | 25 |



*345-LB*

### Four-Gang Nail-On 60 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **460-SB** | 60.0 | Angled Side Nails & Back Bracket | POSI-WEDGE® Cable Clamps | 3¾ L x 7 9/16 W x 2¾ D | 10 |
| **460-SB-24 •*** | 60.0 | Angled Side Nails & Back Bracket | POSI-WEDGE® Cable Clamps | 3¾ L x 7 9/16 W x 2¾ D | 10 |

• *24" adjustable bracket.*

** Not UL Classified for fire wall and/or fire ceiling*



*460-SB*

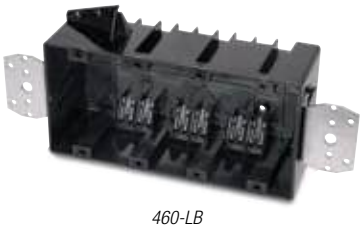


*460-SB-24*

### Four-Gang Bracket 60 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **460-LB** | 60.0 | Steel Side Brackets | POSI-WEDGE® Cable Clamps | 3¾ L x 7 9/16 W x 2¾ D | 8 |

** Not UL Classified for fire wall and/or fire ceiling*



*460-LB*



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## Polycarbonate Boxes

# New Work Box

### 4" Square Boxes 32.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **4S-32-N** | 32.0 | Angled Side Nails | POSI-WEDGE® Cable Clamps | 4 L x 4 W x 3 3/16 D | 50 |



*4S-32-N*

# Old Work Boxes

### One-Gang 14.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **114-0W** | 14.0 | Swing-Ear Brackets | — | 3 3/4 L x 2 1/4 W x 3 D | 50 |



*114-0W*

### Two-Gang 32.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **232-0W** | 32.0 | Swing-Ear Brackets | POSI-WEDGE® Cable Clamps | 3 5/8 L x 4 1/16 W x 3 3/16 D | 50 |



*232-0W*

## Polycarbonate Boxes

# Energy-Efficient Vapor Barrier Boxes

Vapor-barrier boxes are designed to meet the energy-efficiency requirements of modern homes. They feature a drywall flange covered with a foam gasket and additional gaskets over the cable entry points. These gaskets provide a vapor-tight seal, preventing the free flow of air through the box. This helps control heating costs in the winter and cooling costs in the summer.

- High-strength polycarbonate construction — will not shatter when cold or distort in heat
- V-clamps provide self-clamping cable entry (multi-gang and fan/fixture box)
- ½" offset flange to ensure a flush fit in ½" drywall
- Angled side nails for rapid installation
- Pre-drilled flanges for additional mounting options



*FN-23*



*FN-236-V*



*FN-354-V*



*FN-460-V*

### One-, Two-, Three- and Four-Gang

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **FN-23** | 22.5 | Angled Side Nails | Vapor Barrier | 3⅝ L x 2¼ W x 3⅝ D | 50 |
| **FN-236-V** | 36.0 | Angled Side Nails | Vapor Barrier | 3½ x 4 x 3¼ D | 50 |
| **FN-354-V** | 54.0 | Angled Side Nails | Vapor Barrier | 3½ x 5⅝ x 3¼ D | 20 |
| **FN-460-V*** | 60.0 | Angled Side Nails | Vapor Barrier | 3½ x 7½ x 2¾ D | 10 |

**Not UL Classified for fire wall and/or fire ceiling.*



*FN-426-C-V*

### Ceiling Fixture Box 26.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **FN-426-C-V** | 26.0 | Angled Side Nails | — | 4 L x 4 W x 2¾ D | 50 |

*Listed for fixture support up to 50 lbs.*



*FN-CFB*

### Ceiling Fan/Fixture 26.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **FN-CFB** | 26.0 | #3 Bracket | — | 4 L x 4 W x 2¾ D | 50 |

*Listed for fan support up to 35 lbs. and fixture support up to 50 lbs.*

### Voltage Partition

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FNP** | Voltage Partition for NG & FN Series Multi-Gang Boxes | 50 |



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# Polycarbonate Boxes

## Saddle-Type Fan/Fixture 16.0 Cu. In.



CFB-16-F

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **CFB-16-F** | 16.0 | Center Screw | Ceiling Fan/Fixture | 4 L x 4 W x 3⁵⁄₁₆ D | 50 |

*Listed for fan support up to 70 lbs. and fixture support up to 70 lbs.*

## Universal Flanged Nail-On Boxes



NG-236-V



NG-354-V

### Two-, Three- and Four-Gang

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **NG-236-V •** | 36.0 | Angled Side Nails | 2-Gang Wall | 3½ L x 4 W x 3¼ D | 50 |
| **NG-354-V •** | 54.0 | Angled Side Nails | 3-Gang Wall | 3½ L x 5¾ W x 3¼ D | 20 |
| **NG-460-V •*** | 60.0 | Angled Side Nails | 4-Gang Wall | 3½ L x 7½ W x 2¾ D | 10 |

*• NG Boxes have ½" offset wallboard flange and V-type cable entry.*

** Not UL Classified for fire wall and/or fire ceiling.*



NG-460-V

## Voltage Partition

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FNP** | Voltage Partition for NG & FN Series Multi-Gang Boxes | 50 |

## Polycarbonate Boxes

# Ceiling Boxes

All ceiling boxes are produced from a high heat-resistant material developed specifically for fixture support applications.

- Meets NEMA OS-2
- UL Listed to UL 514C



*N-321-GC*



*N-321-C*

### 3½" 20.5 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **N-321-C •** | 20.5 | Angled Side Nails | Molded Fast Clamps | 3½ Dia. x 3⅛ D | 50 |
| **N-321-GC •** | 20.5 | Angled Side Nails | Molded Fast Clamps, Ground Strap Installed | 3½ Dia. x 3⅛ D | 50 |

• *Listed for fixture support up to 50 lbs.*



*N-423-C-V*



*N-423-GC-V*

### 4" 22.5 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **N-423-C-V •** | 22.5 | Angled Side Nails | Molded V-Clamps | 4 Dia. x 2½ D | 50 |
| **N-423-GC-V •** | 22.5 | Angled Side Nails | Molded Fast Clamps | 4 Dia. x 2½ D | 50 |

• *Listed for fixture support up to 50 lbs.*



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# Polycarbonate Boxes





*B518P-UPC*

## 3/0 18 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B518A-UPC •** | 18.0 | Captive Nails | — | 3 Dia. x 2¾ D | 75 |
| **B518P-UPC •** | 18.0 | Captive Nails | Ground Lug and Screw Attached | 3 Dia. x 2¾ D | 75 |

*• Listed for fixture support up to 50 lbs.*



*B520A-UPC*



*B620L-UPC*



*B520P-UPC*



*B720R-SHK*
*35 lbs. maximum fan weight*

## 3/0–4/0 Combination 20 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B520A-UPC •** | 20.0 | Captive Nails | Ground Lug and Screw Attached<br>Fixture Spacing for 2¾" and 3" | 4 Dia. x 2¼ D | 75 |
| **B520P-UPC •** | 20.0 | Captive Nails | Ground Lug and Screw Attached | 4 Dia. x 2¼ D | 75 |
| **B620L-UPC •** | 20.0 | Metal L Bracket | Fixture Spacing for 2¾" and 3½" | 4 Dia. x 2¼ D | 100 |
| **B720R-SHK •** | 20.0 | Mounting Screws | — | 4 Dia. x 2¼ D | 18 |

*• Listed for fixture support up to 50 lbs.*

## Polycarbonate Boxes

# Ceiling Boxes with Bar Hanger

- Meets NEMA OS-2



*N-321-C-94*



*N-321-GC-94*



*N-321-C-95*



*N-321-GC-95*

### 3½" 20.5 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **N-321-C-94 •** | 20.5 | 16" Bar Hanger, 12¼" Min.–19" Max. | Molded Fast Clamps | 3½ Dia. x 3⅛ D | 50 |
| **N-321-GC-94 •** | 20.5 | 16" Bar Hanger, 12¼" Min.–19" Max. | Molded Fast Clamps, Ground Strap Installed | 3½ Dia. x 3⅛ D | 50 |
| **N-321-C-95 •** | 20.5 | 24" Bar Hanger, 16½" Min.–27" Max. | Molded Fast Clamps | 3½ Dia. x 3⅛ D | 50 |
| **N-321-GC-95 •** | 20.5 | 24" Bar Hanger, 16½" Min.–27" Max. | Molded Fast Clamps, Ground Strap Installed | 3½ Dia. x 3⅛ D | 50 |

• *Listed for fixture support up to 50 lbs.*



*N-423-C-94-V*



*N-423-GC-94-V*



*N-423-C-95-V*



*N-423-GC-95-V*

### 4" 22.5 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **N-423-C-94-V •** | 22.5 | 16" Bar Hanger, 12¼" Min.–19" Max. | Molded Fast Clamps | 4 Dia. x 2½ D | 50 |
| **N-423-GC-94-V •** | 22.5 | 16" Bar Hanger, 12¼" Min.–19" Max. | Molded Fast Clamps, Ground Strap Installed | 4 Dia. x 2½ D | 50 |
| **N-423-C-95-V •** | 22.5 | 24" Bar Hanger, 16½" Min.–27" Max. | Molded Fast Clamps | 4 Dia. x 2½ D | 50 |
| **N-423-GC-95-V •** | 22.5 | 24" Bar Hanger, 16½" Min.–27" Max. | Molded Fast Clamps, Ground Strap Installed | 4 Dia. x 2½ D | 50 |

• *Listed for fixture support up to 50 lbs.*



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# Polycarbonate Boxes





B620DC



B620HG-UPC



B620K



B620H-UPC



B620KG-UPC

## 3/0–4/0 Combination 20.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B620DC** • | 20.0 | 24" T-Grid Bar Hanger | Ceiling Box Fixture Spacing for 2¾" and 3½" | 4 Dia. x 2¼ D | 18 |
| **B620HG-UPC** • | 20.0 | 11.50"–14.50" Adjustable Bar Hanger Ground Lug and Screw Attached | Ceiling Box Fixture Spacing for 2¾" and 3½" | 4 Dia. x 2¼ D | 75 |
| **B620H-UPC** • | 20.0 | 11.50"–14.50" Adjustable Bar Hanger | Ceiling Box Fixture Spacing for 2¾" and 3½" | 4 Dia. x 2¼ D | 75 |
| **B620K** • | 20.0 | 14.38"–22.50" Adjustable Bar Hanger | Ceiling Box Fixture Spacing for 2¾" and 3½" | 4 Dia. x 2¼ D | 75 |
| **B620KG-UPC** • | 20.0 | 14.38"–22.50" Adjustable Bar Hanger Ground Lug and Screw Attached | Ceiling Box Fixture Spacing for 2¾" and 3½" | 4 Dia. x 2¼ D | 75 |

• *Listed for fixture support up to 50 lbs.*

## Polycarbonate Boxes

# Ceiling Boxes



3R-16-N



3R-16-NGP

### 3½" Nail-On 16.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **3R-16-N •** | 16.0 | Angled Nails | POSI-WEDGE® Cable Clamps | 2¼ | 50 |
| **3R-16-NGP •** | 16.0 | Angled Nails | POSI-WEDGE® Cable Clamps | 2¼ | 50 |

• *Listed for fixture support up to 50 lbs.*



3R-16-BH



3R-16-BHGP

### 3½" Ceiling Box with Bar Hanger 16.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **3R-16-BH •** | 16.0 | Adjustable 16"–24" Bar Hanger | POSI-WEDGE® Cable Clamps | 2¼ | 25 |
| **3R-16-BHGP •** | 16.0 | Adjustable 16"–24" Bar Hanger | POSI-WEDGE® Cable Clamps | 2¼ | 25 |

• *Listed for fixture support up to 50 lbs.*

NEW!



3R-16-N-RED

### 3½" Fire Alarm Nail-On 16.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **3R-16-N-RED •** | 16.0 | Angled Nails | POSI-WEDGE® Cable Clamps | 2¼ | 50 |

• *Red ceiling box for fire alarm applications.*

• *Listed for fixture support up to 50 lbs.*



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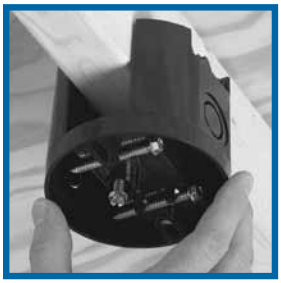
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## Polycarbonate Boxes

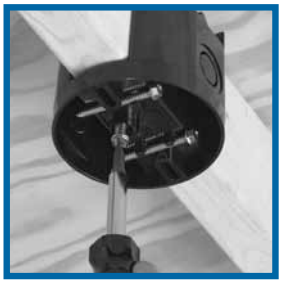
# Saddle-Type Ceiling Fan Boxes



*CFB-12*



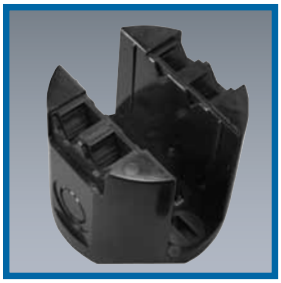
Easy press-fit onto the joist. Integrally molded ribs grip the joist and stop the box from falling.



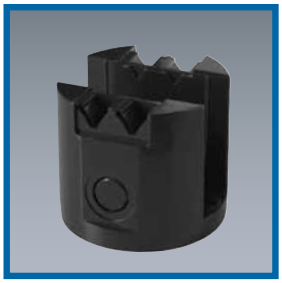
Just one hand is required to mount the box using the pre-located mounting screw.



*CFB-16*



Integrally molded cable V-clamps provide easy and secure clamping for non-metallic cables.



CFB-16 features ½" KOs in addition to V-clamps.

### Saddle-Type Fan 12.0–16.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DEPTH (IN.) | STD. CTN. |
|---|---|---|---|---|
| **CFB-12 •** | 12.0 | Non-Metallic Saddle-Type Ceiling Fan Box with V-Clamps for Non-Metallic Sheathed Cable | 2¼ | 50 |
| **CFB-16 •** | 16.0 | Non-Metallic Saddle-Type Ceiling Fan Box with V-Clamps for Non-Metallic Sheathed Cable and Two ½" KOs | 2¼ | 50 |

• *Listed for fan support up to 70 lbs. and fixture support up to 70 lbs.*

# Old Work

### 4" Round 18.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **B618R-UPC •** | 18.0 | Swing Clamps | — | 4¼ Dia. | 100 |
| **B618RP-UPC •** | 18.0 | Swing Clamps | Ground Lug | 4¼ Dia. | 100 |

• *Not UL Classified for Fire Resistance or used for fixture support in the ceiling.*



*B618R-UPC*

## Phenolic Boxes

# Carlon® Brown Phenolic Boxes

New Fire Rating! Carlon® phenolic boxes can be installed in the same stud cavity of a shared two-hour wall. They may also face opposite directions with only a 3" horizontal separation — ideal for multi-family construction!

- All Phenolic boxes are listed to UL514C
- All Phenolic boxes are listed for masonry walls
- All Phenolic boxes are UL® Classified for 2-hr. fire wall and/or fire ceiling
- All Phenolic boxes meet NEMA OS-2
- All Phenolic boxes are permissible for use with 90° C conductors
- UL® File E11461 and R9140

## One-Gang Nail-On 9.0–18.0 Cu. In.



*2050-UB*



*2070*



*2030*



*1040*



*1240*



*2000*

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **2050-UB** | 9.0 | Bottom Nails | — | 3 9/16 L x 2 1/4 W x 1 13/16 D | 100 |
| **2070** | 14.0 | Bottom Nails | — | 3 9/16 L x 2 1/4 W x 2 5/8 D | 100 |
| **2030** | 16.0 | Bottom Nails | — | 3 9/16 L x 2 15/32 W x 2 13/16 D | 100 |
| **1040** | 18.0 | Compound Angled Nails | — | 3 9/16 L x 2 1/8 W x 3 1/8 D | 100 |
| **1240** | 18.0 | Recessed Angled Nails | — | 3 11/16 L x 2 1/4 W x 3 5/16 D | 100 |
| **2000** | 18.0 | Bottom Nails | "Classic" | 3 11/16 L x 2 1/4 W x 3 1/8 D | 100 |

## One-Gang Nail-On 20.3–22.5 Cu. In.



*1250-UB*



*1250-UB-S*



*1050-UB*



*1260*



*1260-S*

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **1250-UB** | 20.3 | Recessed Angled Nails | — | 3 7/8 L x 2 3/8 W x 3 3/8 D | 100 |
| **1250-UB-S** | 20.3 | Recessed Angled Nails | — | 3 7/8 L x 2 3/8 W x 3 3/8 D | 100 |
| **1050-UB** | 21.0 | Compound Angled Nails | — | 3 5/8 L x 2 5/16 W x 3 1/2 D | 50 |
| **1260** | 22.5 | Recessed Angled Nails | — | 3 7/8 L x 2 3/8 W x 3 21/32 D | 50 |
| **1260-S** | 22.5 | Recessed Angled Nails | — | 3 7/8 L x 2 3/8 W x 3 21/32 D | 50 |



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# Phenolic Boxes

## One-Gang Brackets 16.0–20.3 Cu. In.



2030-502



2030-702



2000-738



1250-112

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **2030-502** | 16.0 | ½" Offset Bracket for Wood/Steel Studs | — | 3⅝ L x 2¼ W x 2¾ D | 100 |
| **2030-702** | 16.0 | ¼" Offset Bracket for Wood/Steel Studs | — | 3⅝ L x 2¼ W x 2¾ D | 100 |
| **2000-738** | 18.0 | ⅜" Offset Bracket for Wood/Steel Studs | — | 3⅝ L x 2¼ W x 2¾ D | 100 |
| **1250-112** | 20.3 | ½" Offset Bracket for Wood/Steel Studs | — | 3⅝ L x 2¼ W x 2¾ D | 50 |

## Two-Gang Nail-On 27.5–40.5 Cu. In.



1032-C



1032-UB



1052-C



1052-C-SQ



1052-PC



1052-UB



1072



1072-C

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **1032-C** | 27.5 | Compound Angled Nails | High Clamps | 3⅝ L x 4 1⁄16 W x 2 11⁄16 D | 50 |
| **1032-UB** | 27.5 | Compound Angled Nails | #36 Clamps, Bulk Packed | 3⅝ L x 4 1⁄16 W x 2 11⁄16 D | 50 |
| **1052-C** | 32.5 | Compound Angled Nails | High Clamps | 3⅝ L x 4 1⁄16 W x 2 11⁄16 D | 50 |
| **1052-C-SQ** | 32.5 | Angled Screws | High Clamps | 3⅝ L x 4 1⁄16 W x 2 11⁄16 DD | 50 |
| **1052-PC** | 32.5 | Compound Angled Nails | Non-Metallic Clamps | 3⅝ L x 4 1⁄16 W x 2 11⁄16 D | 50 |
| **1052-UB** | 32.5 | Compound Angled Nails | #36 Clamps, Bulk Packed | 3⅝ L x 4 1⁄16 W x 2 11⁄16 D | 50 |
| **1072** | 40.5 | Compound Angled Nails | #36 Clamps, Bulk Packed | 3⅝ L x 4 1⁄16 W x 2 11⁄16 D | 50 |
| **1072-C** | 40.5 | Compound Angled Nails | High Clamps | 3⅝ L x 4 1⁄16 W x 2 11⁄16 D | 50 |
| **1072-C-SQ** | 40.5 | Angled Screws | High Clamps | 3⅝ L x 4 1⁄16 W x 2 11⁄16 D | 50 |
| **1072-PC** | 40.5 | Compound Angled Nails | Non-Metallic Clamps | 3⅝ L x 4 1⁄16 W x 2 11⁄16 D | 50 |

## Phenolic Boxes

# Two-Gang Brackets 24.0–34.0 Cu. In.



*7072-2*



*7072-202*



*7072-N02*



*6062-402*



*6062-4-UB*



*7002-2*



*7002-202*



*2002-738*



*2002-738-C*



*2002-R-C*

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **7072-2** | 24.0 | #2 Bottom Bracket and Wire Support | High Clamps | 3 5/16 L x 4 W x 2 3/4 D | 50 |
| **7072-202** | 24.0 | #2 Bottom Bracket and Wire Support | #36 Clamps, Bulk Packed | 3 5/16 L x 4 W x 2 3/4 D | 50 |
| **7072-N02** | 24.0 | "N" Bracket | #36 Clamps | 3 5/16 L x 4 W x 2 3/4 D | 50 |
| **6062-402** | 25.0 | Ears, #4 Swing Bracket | #36 Clamps, Bulk Packed | 3 3/8 L x 4 3/16 W x 2 1/2 D | 50 |
| **6062-4-UB** | 25.0 | Ears, #4 Swing Bracket | High Clamps | 3 3/8 L x 4 3/16 W x 2 1/2 D | 50 |
| **6062-4-UB-SQ** | 25.0 | Angled Screws | High Clamps | 3 3/8 L x 4 3/16 W x 2 1/2 D | 50 |
| **7002-2** | 32.5 | #2 Bottom Bracket and Wire Support | High Clamps | 3 1/4 L x 4 W x 3 3/8 D | 50 |
| **7002-202** | 32.5 | #2 Bottom Bracket and Wire Support | #36 Clamps, Bulk Packed | 3 1/4 L x 4 W x 3 3/8 D | 50 |
| **2002-738** | 34.0 | 3/8" Offset Brackets for Wood/Steel Studs & #36 Clamps, Bulk Packet | 3/8" Offset Wallboard Tabs | 3 11/16 L x 4 3/16 W x 3 1/4 D | 50 |
| **2002-738-C** | 34.0 | 3/8" Offset Brackets for Wood/Steel Studs Tabs & High Clamps | 3/8" Offset Wallboard | 3 11/16 L x 4 3/16 W x 3 1/4 D | 50 |
| **2002-R-C** | 34.0 | "R" Bracket | High Clamps | 3 3/8 L x 4 3/32 W x 3 1/4 D | 50 |



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# Phenolic Boxes

## Three-Gang Nail-On 42.9–58.5 Cu. In.


1043


1043-C


1043-C-SQ


1063


1063-C


1063-C-SQ

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **1043** | 42.9 | Compound Angled Nails | #36 Clamps, Bulk Packed | 3⅝ L x 5⅞ W x 2¾ D | 20 |
| **1043-C** | 42.9 | Compound Angled Nails | High Clamps | 3⅝ L x 5⅞ W x 2¾ D | 20 |
| **1043-C-SQ** | 42.9 | Angled Screws | High Clamps | 3⅝ L x 5⅞ W x 2¾ D | 20 |
| **1063** | 58.5 | Compound Angled Nails | #36 Clamps, Bulk Packed | 3²¹⁄₃₂ L x 5¹⁵⁄₁₆ W x 3²¹⁄₃₂ D | 20 |
| **1063-C** | 58.5 | Compound Angled Nails | High Clamps | 3²¹⁄₃₂ L x 5¹⁵⁄₁₆ W x 3²¹⁄₃₂ D | 20 |
| **1063-C-SQ** | 58.5 | Compound Angled Screws | High Clamps | 3²¹⁄₃₂ L x 5¹⁵⁄₁₆ W x 3²¹⁄₃₂ D | 20 |

## Three-Gang Brackets 35.5–37.0 Cu. In.


7073-2


7073-202


7073-238-02


6063-4


6063-402

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **7073-2** | 35.5 | #2 Bottom Bracket and Wire Support | High Clamps | 3⅜ L x 5¹³⁄₁₆ W x 2⅝ D | 100 |
| **7073-202** | 35.5 | #2 Bottom Bracket and Wire Support | #36 Clamps, Bulk Packed | 3⅜ L x 5¹³⁄₁₆ W x 2⅝ D | 100 |
| **7073-238-02** | 35.5 | Two ⅜" Offset Brackets for Wood/Steel Studs | #36 Clamps, Bulk Packed | 3⅜ L x 5¹³⁄₁₆ W x 2⅝ D | 100 |
| **6063-4** | 37.0 | Ears, #4 Swing Bracket | High Clamps | 3⅜ L x 5¹³⁄₁₆ W x 2½ D | 100 |
| **6063-402** | 37.0 | Ears, #4 Swing Bracket | #36 Clamps, Bulk Packed | 3⅜ L x 5¹³⁄₁₆ W x 2½ D | 50 |

## Phenolic Boxes

# Four-Gang Brackets 48.0–60.0 Cu. In.



7074-02-BH



7074-BH



2004-02-BH



2004-BH



2004-238



2004-238-02

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **7074-02 BH** | 48.0 | Side Bracket & Stabilizing Bar | #36 Clamps, Bulk Packed | 3 5/16 L x 7 7/8 W x 2 5/8 D | 10 |
| **7074 BH** | 48.0 | Side Bracket & Stabilizing Bar | High Clamps | 3 5/16 L x 7 7/8 W x 2 5/8 D | 10 |
| **2004-02-BH** | 60.0 | Side Bracket & Stabilizing Bar | #36 Clamps, Bulk Packed | 3 5/8 L x 7 23/32 W x 3 1/16 D | 10 |
| **2004-BH** | 60.0 | Side Bracket & Stabilizing Bar | High Clamps | 3 5/8 L x 7 23/32 W x 3 1/16 D | 10 |
| **2004-238** | 60.0 | Two 3/8" Offset Brackets for Wood/Steel Studs | High Clamps | 3 5/8 L x 7 23/32 W x 3 1/16 D | 20 |
| **2004-238-02** | 60.0 | Two 3/8" Offset Brackets for Wood/Steel Studs | #36 Clamps, Bulk Packed | 3 5/8 L x 7 23/32 W x 3 1/16 D | 20 |



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## Phenolic Boxes

# 4" Square Boxes Nail-On Brackets 16.0–30.0 Cu. In.



4020-1



4020-1-02



4000-02



4000-1-UB



4000-N



4000-N02

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **4020-1** | 16.0 | ½" Raised Face Bracket for Wood/Steel Studs | High Clamps | 4⁵⁄₁₆ L x 4⁵⁄₁₆ W x 1¼ D | 50 |
| **4020-1-02** | 16.0 | ½" Raised Face Bracket for Wood/Steel Studs | #36 Clamps, Bulk Packed | 4⁵⁄₁₆ L x 4⁵⁄₁₆ W x 1¼ D | 50 |
| **4000-02** | 30.0 | Nails or Screws, Bulk Packed | #36 Clamps, Bulk Packed | 4¼ L x 4¼ W x 2⅜ D | 50 |
| **4000-1-UB** | 30.0 | ½" Raised Face Bracket for Wood/Steel Studs | High Clamps | 4¼ L x 4¼ W x 2⅜ D | 50 |
| **4000-N** | 30.0 | "N" Bracket | High Clamps | 4¼ L x 4¼ W x 2⅜ D | 50 |
| **4000-N02** | 30.0 | "N" Bracket with Nails | #36 Clamps, Bulk Packed | 4¼ L x 4¼ W x 2⅜ D | 50 |

# Plaster Rings and Covers for 4" Square Boxes



4041



4042-12



4043



4022-12

| CAT. NO. | SIZE CU. IN. | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|
| **4041** | — | 4" Square Flat Back | 4¼ L x 4¼ W x 4¼ D | 100 |
| **4042-12** | 4.0 | 4" Square Single-Gang Plaster Ring, ½" Offset | 4¼ L x 4¼ W x 4¼ D | 100 |
| **4043** | 4.5 | 4" Square Plaster Ring for 3¼" Fixture, ½" Offset | 4⁹⁄₁₆ L x 4⁹⁄₁₆ W x 4⁹⁄₁₆ D | 100 |
| **4022-12** | 7.0 | 4" Square Two-Gang Plaster Ring, ½" Offset | 4⁹⁄₁₆ L x 4⁹⁄₁₆ W x 4⁹⁄₁₆ D | 50 |

## Phenolic Boxes

# One-Gang Brackets


6000-402


6010-402


6010-4-PC


6010-4-UB


6060-02


6060-402


6070-402

### 16.0–18.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **6000-402 •** | 16.0 | Ears, #8 Swing Brackets | No Clamp Blocks | 2⅜ L x 2⅜ W x 2³⁄₁₆ D | 50 |
| **6010-402** | 16.0 | Ears, #4 Swing Brackets | Bulk PK Clamps | 3⅜ L x 2³⁄₃₂ opening; 4¹¹⁄₁₆ overall x 2⅞ D | 100 |
| **6010-4-PC** | 16.0 | Ears, #4 Swing Brackets | Non-Metallic Clamps | 3⅜ L x 2⅜ W x 2⅞ D | 100 |
| **6010-4-UB** | 16.0 | Ears, #4 Swing Brackets | High Clamps | 3⅜ L x 2⅜ W x 2⅞ D | 100 |
| **6060-02** | 16.0 | Ears | — | 3¼ L x 2³⁄₁₆ W x 2¹¹⁄₁₆ D | 100 |
| **6060-402** | 16.0 | Ears, #4 Swing Brackets | No Clamp Blocks | 3⅜ L x 2⅜ W x 2³⁄₁₆ D | 100 |
| **6070-402** | 18.0 | Ears, #4 Swing Brackets | #36 Clamps, Bulk Packed | 3⅜ L x 2⅜ W x 3¼ D | 50 |
| **6070-4-UB** | 18.0 | Ears, #4 Swing Brackets | High Clamps | 3⅜ L x 2⅜ W x 3¼ D | 50 |

• *Not UL Listed, UL Recognized component.*


7090


6020-402


7060


7020-8


6050-4-UB


7010


7010-8


6090-402

### 7.5–14.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **7090** | 7.5 | Ears | — | 3¼ L x 2¼ W x 1⁷⁄₁₆ D | 100 |
| **6020-402** | 8.0 | Ears, #4 Swing Brackets | Ears | 3⁷⁄₁₆ L x 2¼ W x 1¾ D | 100 |
| **7060** | 9.0 | Ears | Ears | 3⁷⁄₁₆ L x 2¼ W x 1¾ D | 100 |
| **7020-8** | 10.0 | Ears, #8 Swing Brackets | High Clamps | 3¼ L x 2³⁄₁₆ W x 2¼ D | 50 |
| **6050-4-UB** | 10.5 | Ears, #4 Swing Brackets | High Clamps | 3½ L x 2¼ W x 2⅛ D | 100 |
| **7010** | 12.5 | Ears Clamps | High | 3¼ L x 2³⁄₁₆ W x 2¹¹⁄₁₆ D | 100 |
| **7010-8** | 12.5 | Ears, #8 Snap-In Bracket | High Clamps | 3¼ L x 2³⁄₁₆ W x 2¹⁄₁₆ D | 50 |
| **6090-402** | 14.0 | Ears, #4 Swing Brackets | No Clamp Blocks | 3⅜ L x 2⅜ W x 2½ D | 100 |



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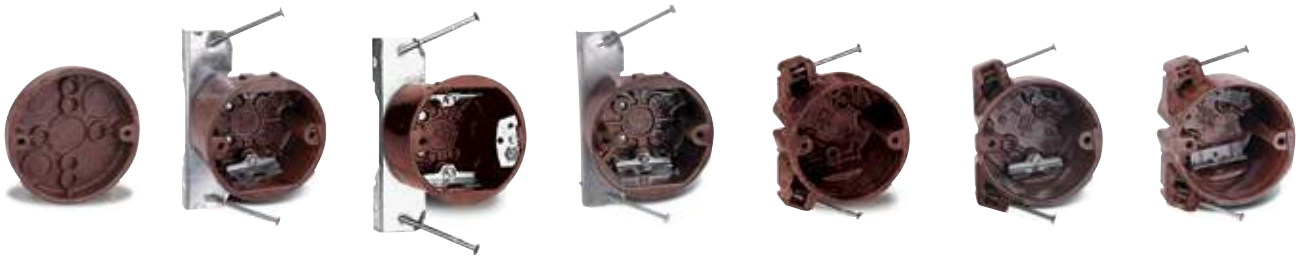
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# Phenolic Boxes



## Nail-On



3060 3090-N 3090-N-40 3090-N-S 3190 3190-C 3190-PC

### 3½" Nail-On 13.5–22.8 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **3060** † | 3.5 | Nails or Screw Mount, 3⁷⁄₁₆" O.D. | See NEC-725-2, 725-51, 725-52, Class 2 | 3½ Dia. x ⅝ D | 100 |
| **3090-N** • | 13.5 | "N" Bracket | High Clamps | 3½ Dia. x 2⅛ D | 50 |
| **3090-N-40** • | 13.5 | "N" Bracket | High Clamps & #40 Ground Strap | 3½ Dia. x 2⅛ D | 50 |
| **3090-N-S** • | 13.5 | "N" Bracket with Screws | High Clamps & #36 Clamps, Bulk Packed | 3½ Dia. x 2⅞ D | 50 |
| **3190** • | 22.8 | Compound Angled Nails | #36 Clamps, Bulk Packed | 3½ Dia. x 3¼ D | 50 |
| **3190-C** • | 22.8 | Compound Angled Nails | High Clamps | 3½ Dia. x 3¼ D | 50 |
| **3190-PC** • | 22.8 | Compound Angled Nails | Non-Metallic Clamps | 3½ Dia. x 3¼ D | 50 |

• *Listed for fixture support up to 50 lbs.*

† *Not UL Listed.*

## Flanged



3030-02-40 3030 3030-02 3030PC 3000 3000-02 3000-PC

### 3½" Flanged for Manufactured Housing 11.5–20.5 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **3030-02-40** • | 11.5 | Screw Mount (4⅜" O.D. Flange or Flash Ring) Box O.D. 3½" | #36 Clamps, Bulk Packed & #40 Ground Strap | 3½ Dia. x 1¾ D | 100 |
| **3030** • | 14.0 | | High Clamps | 3½ Dia. x 1¾ D | 100 |
| **3030-02** • | 14.0 | | #36 Clamps, Bulk Packed | 3½ Dia. x 1¾ D | 100 |
| **3030PC** • | 14.0 | | Non-Metallic Clamps | 3½ Dia. x 1¾ D | 100 |
| **3000** • | 20.5 | | High Clamps | 3½ Dia. x 2⅞ D | 50 |
| **3000-02** • | 20.5 | | #36 Clamps, Bulk Packed | 3½ Dia. x 2⅞ D | 50 |
| **3000-PC** • | 20.5 | | Non-Metallic Clamps | 3½ Dia. x 2⅞ D | 50 |

• *Listed for fixture support up to 50 lbs.*

# Phenolic Boxes

## 4" Nail-On Brackets


4060-02


4060-N02


4160-UB


4070-302


4070-N


4070-N02


4070-N-SQ


4170


4170-C

### 13.5–21.5 Cu. In

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **4060-02 •** | 13.5 | Nail or Screws | #36 Clamps, Bulk Packed | 4 Dia. x 1⅝ D | 100 |
| **4060-N02 •** | 13.5 | "N" Bracket, Bulk Packed with Nails | #36 Clamps | 4 Dia. x 1⅝ D | 50 |
| **4160-UB •** | 16.0 | Compound Angled Side Nails | #36 Clamps, Bulk Packed | 4 Dia. x 1 15/16 D | 50 |
| **4070-302 •** | 20.8 | #3 Bracket | #36 Clamps, Bulk Packed | 4 Dia. x 2⅜ D | 50 |
| **4070-N •** | 20.8 | "N" Bracket with Nails | High Clamps | 4 Dia. x 2⅜ D | 50 |
| **4070-N02 •** | 20.8 | "N" Bracket with Nails | #36 Clamps, Bulk Packed | 4 Dia. x 2⅜ D | 50 |
| **4070-N-SQ •** | 20.8 | "N" Bracket with screws | High Clamps | 4 Dia. x 2⅜ D | 50 |
| **4170 •** | 21.5 | Compound Angled Side Nails | #36 Clamps, Bulk Packed | 4 Dia. x 2 7/16 D | 50 |
| **4170-C •** | 21.5 | Compound Angled Side Nails | High Clamps | 4 Dia. x 2 7/16 D | 50 |

• *Listed for fixture support up to 50 lbs.*

## 4" Round Outlet Box


4170-CFB


4170-CFB-S


4170-3-CFB

### 21.5 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|
| **4170-CFB •** | 21.5 | — | 4 1/16 Dia. | 10 |
| **4170-CFB-S •** | 21.5 | Steel Stud Screws | 4 1/16 Dia. | 10 |
| **4170-3-CFB •** | 21.5 | 3" Bracket | 4 1/16 Dia. | 10 |

• *UL Listed for support of light fixtures of up to 50 lbs. or ceiling fans up to 35 lbs.*



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# Phenolic Boxes

## 3½" Ceiling Box with Bar Hanger



3090-94



3090-94-40



3090-95



3090-95-40



3190-C-94



3190-C-95

### 13.5–22.8 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **3090-94** • | 13.5 | 16" Bar Hanger, 12¼" Min.–19" Max. | High Clamps | 3½ Dia. x 2⅛ D | 50 |
| **3090-94-40** • | 13.5 | 16" Bar Hanger, 12¼" Min.–19" Max. | High Clamps & #40 Ground Strap | 3½ Dia. x 2⅛ D | 50 |
| **3090-95** • | 13.5 | 24" Bar Hanger, 16½" Min.–27" Max. | High Clamps | 3½ Dia. x 2⅛ D | 50 |
| **3090-95-40** • | 3.5 | 24" Bar Hanger, 16½" Min.–27" Max. | High Clamps & #40 Ground Strap | 3½ Dia. x 2⅛ D | 50 |
| **3190-C-94** • | 22.8 | 16" Bar Hanger | High Clamps | 3½ Dia. x 2⅛ D | 25 |
| **3190-C-95** • | 22.8 | 24" Bar Hanger | High Clamps | 3½ Dia. x 2⅛ D | 25 |

• *Listed for fixture support up to 50 lbs.*

## 4" Outlet Boxes with Bar Hanger



4060-9402



4060-9502



4070-94



4070-9402



4070-95



4070-9502



4070-95-40



4070-95-PC



4070-CFB-BHL

### 13.5–20.8 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **4060-9402** • | 13.5 | 16" Bar Hanger | #36 Clamps, Bulk Packed | 4 Dia. x 1⅝ D | 50 |
| **4060-9502** • | 13.5 | 24" Bar Hanger | #36 Clamps, Bulk Packed | 4 Dia. x 1⅝ D | 50 |
| **4070-94** • | 20.8 | 16" Bar Hanger, 12¼" Min.–19" Max. | High Clamps | 4 Dia. x 2⅜ D | 50 |
| **4070-9402** • | 20.8 | 16" Bar Hanger, 12¼" Min.–19" Max. | #36 Clamps, Bulk Packed | 4 Dia. x 2⅜ D | 50 |
| **4070-95** • | 20.8 | 24" Bar Hanger, 16½" Min.–27" Max. | High Clamps | 4 Dia. x 2⅜ D | 50 |
| **4070-9502** • | 20.8 | 24" Bar Hanger, 16½" Min.–27" Max. | #36 Strap, Bulk Packed | 4 Dia. x 2⅜ D | 50 |
| **4070-95-40** • | 20.8 | 24" Bar Hanger, 16½" Min.–27" Max. | Ground Strap | 4 Dia. x 2⅜ D | 50 |
| **4070-95-PC** • | 20.8 | 24" Bar Hanger, 16½" Min.–27" Max. | Non-Metallic Clamps | 4 Dia. x 2⅜ D | 50 |
| **4070-CFB-BHL** † | 20.8 | 24" Bar Hanger, 12" to 24" Maximum Center | — | 4 1/16 Dia. x 2⅜ D | 10 |

• *Listed for fixture support up to 50 lbs.*

† *UL Listed for support of light fixtures of up to 50 lbs. or ceiling fans up to 35 lbs.*

## Phenolic Boxes

# Plaster Rings and Covers for 4" Outlet Boxes


3051


4051


4052 BROWN


4052 IVORY


4052 WHITE


4061


4062 IVORY, 4062 BROWN, 4062 WHITE

| CAT. NO. | SIZE CU. IN. | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|
| **3051** | — | Round Flat Blank, Fits #3000, #3020 & #3030 Boxes Only | 3¼ Dia. | 100 |
| **4051** | — | Round Blank or Pendant, $^{25}/_{64}$" Diameter Knockout | 3¼–4 Dia. | 100 |
| **4052 BROWN** | — | Round Flat Blank with 4" O.D. | 3¼–4 Dia. | 100 |
| **4052 IVORY** | — | Round Flat Blank with 4" O.D. | 3¼–4 Dia. | 100 |
| **4052 WHITE** | — | Round Flat Blank with 4" O.D. | 3¼–4 Dia. | 100 |
| **4061** | 4.5 | Round Plaster Ring, ½" Offset for 3¼ Mounting | 4 Dia. | 100 |
| **4062 BROWN** | — | Round Flat Blank with 4½" O.D. | 4 Dia. | 100 |
| **4062 IVORY** | — | Round Flat Blank with 4½" O.D. | 4 Dia. | 100 |
| **4062 WHITE** | — | Round Flat Blank with 4½" O.D. | 4 Dia. | 100 |

# Ceiling Boxes — Old Work


3080


3080-9


3080-902


3080-9-40


3080-9-SQ


3080-SQ


3080-9-PC


3000-9-UB

### 3½" Brackets 14.0–20.5 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **3080** † | 14.0 | Ears | High Clamps | 3½ Dia. x 2⅛ D | 50 |
| **3080-9** • | 14.0 | #9 Snap-In Bracket | High Clamps | 3½ Dia . x 2⅛ D | 50 |
| **3080-902** • | 14.0 | #9 Snap-In Bracket | #36 Clamps Bulk Packed | 3½ Dia. x 2⅛ D | 50 |
| **3080-9-40** • | 14.0 | #9 Snap-In Bracket | High Clamps & #40 Ground Strap | 3½ Dia. x 2⅛ D | 50 |
| **3080-9-PC** • | 14.0 | #9 Snap-In Bracket | Non-Metallic Clamps | 3½ Dia. x 2⅛ D | 50 |
| **3080-9-SQ** | 14.0 | #9 Snap-In Bracket | High Clamps | 3½ Dia. x 2⅛ D | 50 |
| **3080-SQ** | 14.0 | Ears | High Clamps | 3½ Dia. x 2⅛ D | 50 |
| **3000-9-PC** | 20.5 | #9 Snap-In Bracket | Non-Metallic Clamps | 3½ Dia. x 2⅛ D | 50 |
| **3000-9-UB** • | 20.5 | #9 Snap-In Bracket | High Clamps | 3½ Dia. x 2⅛ D | 50 |

• *Listed for fixture support up to 15 lb. in walls only.*

† *Listed for fixture support up to 50 lbs.*



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# Phenolic Boxes



## One-Gang

### 9.8–14.0 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|
| **5060 BROWN •** | 9.8 | Screws | 4½ L x 2¾ W x 1⅛ D | 100 |
| **5060 IVORY** | 9.8 | Screws | 4½ L x 2¾ W x 1⅛ D | 100 |
| **5060 WHITE** | 9.8 | Screws | 4½ L x 2¾ W x 1⅛ D | 100 |
| **5070 BROWN •** | 14.0 | Screws | 4½ L x 2¾ W x 1⅛ D | 100 |
| **5070 IVORY** | 14.0 | Screws | 4½ L x 2¾ W x 1⅛ D | 100 |
| **5070 WHITE** | 14.0 | Screws | 4½ L x 2¾ W x 1⅛ D | 100 |

• ***Note***: *Only the "Brown" is Phenolic — the White and Ivory are a urea material.*


*5060 BROWN*


*5060 IVORY*


*5060 WHITE*


*5070 BROWN*


*5070 IVORY*


*5070 WHITE*

## Two-Gang

### 23.8 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|
| **5072 BROWN •** | 23.8 | Screws | 4⁹⁄₁₆ L x 4½ W x 1⅝ D | 50 |
| **5072 IVORY** | 23.8 | Screws | 4⁹⁄₁₆ L x 4½ W x 1⅝ D | 50 |
| **5072 WHITE** | 23.8 | Screws | 4⁹⁄₁₆ L x 4½ W x 1⅝ D | 50 |

• ***Note***: *Only the "Brown" is Phenolic — the White and Ivory are a urea material.*


*5072 BROWN*


*5072 IVORY*


*5072 WHITE*

## 6½" Outside Diameter

### 3.8 Cu. In.

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|
| **5080 BROWN •** | 3.8 | Screws, Box O.D. | 6¼ L x 3⅛ W x ¾ D | 50 |
| **5080 IVORY** | 3.8 | Screws, Box O.D. | 6¼ L x 3⅛ W x ¾ D | 50 |
| **5080 WHITE** | 3.8 | Screws, Box O.D. | 6¼ L x 3⅛ W x ¾ D | 50 |

• ***Note***: *Only the "Brown" is Phenolic — the White and Ivory are a urea material.*


*5080 BROWN*


*5080 IVORY*


*5080 WHITE*

## Phenolic Boxes

# AO Round Conduit Boxes and Covers



A04-12

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **A04-12 •** | 12.0 | Four ½" Threaded KOs | Round Box | 4⅛ Dia. x 1⅞ D | 10 |
| **A04-34 •** | 12.0 | Four ¾" Threaded KOs | Round Box | 4⅛ Dia. x 1⅞ D | 10 |
| **A0-51 •** | — | Stainless Steel Screws | Black Cover with Gaskets | — | 10 |

• *Not UL Listed.*



A04-34



A0-51

# Weatherproof Device Boxes and Covers



FSC-12



FSC-34

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **FSC-12** | 16.0 | One ½" Threaded KO in Each End | Device Box | 4⁷⁄₁₆ L x 1²⁵⁄₃₂ W x 2⁹⁄₁₆ D | 10 |
| **FSC-34** | 16.0 | One ¾" Threaded KO in Each End | Device Box | 4⁷⁄₁₆ L x 1²⁵⁄₃₂ W x 2⁹⁄₁₆ D | 10 |
| **FSC-51 •** | — | Stainless Steel Screws | Blank Cover with Gaskets | — | 10 |
| **FSC-53 •** | — | Stainless Steel Screws | Duplex Receptacle Cover with Gasket | — | 10 |
| **FSC-54 •** | — | Stainless Steel Screws, 1.409" Dia. | Single Receptacle Cover with Gasket | — | 10 |
| **FSC-55 •** | — | Stainless Steel Screws | Switch Cover with Gasket | — | 10 |

• *Not UL Listed.*



FSC-51



FSC-53



FSC-54



FSC-55



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# Non-Metallic Covers and Accessories



## One-Gang

| CAT. NO. | SIZE CU. IN. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **A410 •** | 3.5 | ½" Rise | 100 |
| **A411 •** | 4.2 | ⅝" Rise | 50 |
| **A412 •** | 5.0 | ¾" Rise | 50 |
| **A413 •** | 6.6 | 1" Rise | 40 |
| **A414 •** | 8.1 | 1¼" Rise | 30 |

• *UL Listed E11461.*



*A410*

## Two-Gang

| CAT. NO. | SIZE CU. IN. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **A400 •** | — | Blank | 100 |
| **A420 •** | 6.1 | ½" Rise | 75 |
| **A421 •** | 7.4 | ⅝" Rise | 50 |
| **A422 •** | 8.8 | ¾" Rise | 50 |

• *UL Listed E11461.*



*A400*



*A420*

## Round Plaster Ring

| CAT. NO. | SIZE CU. IN. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **A471 •** | 3.2 | ⅝" Rise | 100 |
| **A472 •** | 4.0 | ½" Rise | 100 |

• *UL Listed E11461.*

*Listed for fixture support up to 50 lbs.*



*A471*

## Round Blank Cover

| CAT. NO. | SIZE CU. IN. | COLOR | DESCRIPTION | STD. CTN. |
|---|---|---|---|---|
| **A470D •** | — | Blue | Blank with ½" KO | 100 |
| **E460R-CAR •** | — | Blue | Blank | 35 |
| **CPC4WH •** | — | White | Ceiling Box Cover | 12 |

• *UL Listed E11461.*

*Listed for fixture support up to 50 lbs.*



*A470D*



*E460R-CAR*



*CPC4WH*

# Non-Metallic Covers and Accessories

## Box Extender

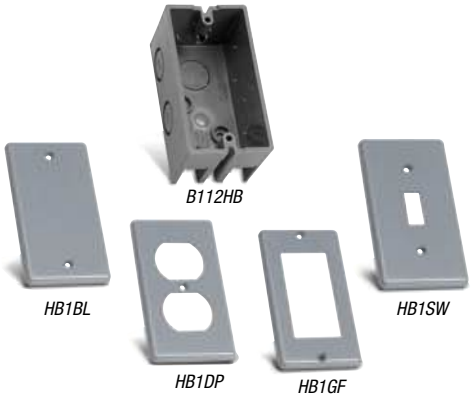


B1EXTB

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | STD. CTN. |
|---|---|---|---|---|
| **B1EXTB** | — | Screws | 3¼ L x 2¼ W | 25 |

*UL Listed E11461.*

## Handy Box and Covers



B112HB

HB1BL

HB1DP

HB1GF

HB1SW

| CAT. NO. | SIZE CU. IN. | DESCRIPTION | STD. CTN.QTY. |
|---|---|---|---|
| **B112HB** | 1⅞ x 4 x 2⅛ | Handy Box – One-Gang | 50 |
| **HB1BL** | .25 x 4.30 x 2.38 | Blank Cover | 25 |
| **HB1DP** | .25 x 4.30 x 2.38 | Duplex Receptacle Cover | 25 |
| **HB1GF** | .25 x 4.30 x 2.38 | GFCI Cover | 25 |
| **HB1SW** | .25 x 4.30 x 2.38 | Toggle Switch Cover | 25 |

## Accessory Clamps and Ground Strap

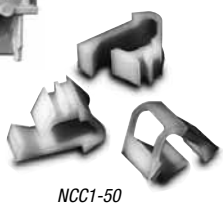
| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **36** | Metal Stamped Clamp and Screw, Unassembled | 50 |
| **36-PFC** | Non-Metallic Clamp | 50 |
| **NCC1-50** | Non-Metallic Cable Lock Clamp for Strain Relief of Non-Metallic Cable | 500 (10 bags of 50) |
| **40-UB** | Ground Strap for Phenolic Boxes | 50 |



36



36-PFC



NCC1-50

## NEC® Box Requirements* *Cubic Inches for 1–40 Conductors*

| WIRE SIZE (AWG) | CUBIC-INCH CAPACITY BY NUMBER OF CONDUCTORS | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** |
| #18 | 1.50 | 3.00 | 4.50 | 6.00 | 7.50 | 9.00 | 10.50 | 12.00 | 13.50 | 15.00 | 16.50 | 18.00 | 19.50 | 21.00 | 22.50 | 24.00 | 25.50 | 27.00 | 28.50 | 30.00 |
| #16 | 1.75 | 3.50 | 5.25 | 7.00 | 8.75 | 10.50 | 12.25 | 14.00 | 15.75 | 17.50 | 19.25 | 21.00 | 22.75 | 24.50 | 26.25 | 28.00 | 29.75 | 31.50 | 33.25 | 36.00 |
| #14 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 | 32.00 | 34.00 | 36.00 | 38.00 | 40.00 |
| #12 | 2.25 | 4.50 | 6.75 | 9.00 | 11.25 | 13.50 | 15.75 | 18.00 | 20.25 | 22.50 | 24.75 | 27.00 | 29.25 | 31.50 | 33.75 | 36.00 | 38.25 | 40.50 | 42.75 | 45.00 |
| #10 | 2.50 | 5.00 | 7.50 | 10.00 | 12.50 | 15.00 | 17.50 | 20.00 | 22.50 | 25.00 | 27.50 | 30.00 | 32.50 | 35.00 | 37.50 | 40.00 | 42.50 | 45.00 | 47.50 | 50.00 |
| | **21** | **22** | **23** | **24** | **25** | **26** | **27** | **28** | **29** | **30** | **31** | **32** | **33** | **34** | **35** | **36** | **37** | **38** | **39** | **40** |
| #18 | 31.50 | 33.00 | 34.50 | 36.00 | 37.50 | 39.00 | 40.50 | 42.00 | 43.50 | 45.00 | 46.50 | 48.00 | 49.50 | 51.00 | 52.50 | 54.00 | 55.50 | 57.00 | 58.50 | 60.00 |
| #16 | 36.75 | 38.50 | 40.25 | 42.00 | 43.75 | 45.50 | 47.25 | 49.00 | 50.75 | 52.50 | 54.25 | 56.00 | 57.75 | 59.50 | 61.25 | 63.00 | 64.75 | 66.50 | 68.25 | 70.00 |
| #14 | 42.00 | 44.00 | 46.00 | 48.00 | 50.00 | 52.00 | 54.00 | 56.00 | 58.00 | 60.00 | 62.00 | 64.00 | 66.00 | 68.00 | 70.00 | 72.00 | 74.00 | 76.00 | 78.00 | 80.00 |
| #12 | 47.25 | 49.50 | 51.75 | 54.00 | 56.25 | 58.50 | 60.75 | 63.00 | 65.25 | 67.50 | 69.75 | 72.00 | 74.25 | 76.50 | 78.75 | 81.00 | 83.25 | 85.50 | 87.75 | 90.00 |
| #10 | 52.50 | 55.00 | 57.50 | 60.00 | 62.50 | 65.00 | 67.50 | 70.00 | 72.50 | 75.00 | 77.50 | 80.00 | 82.50 | 85.00 | 87.50 | 90.00 | 92.50 | 95.00 | 97.50 | 100.00 |

** Make allowance of two additional conductors for each device, one for clamps if required and one for one or more grounding conductors entering the box. See NEC® 314.16(B).*



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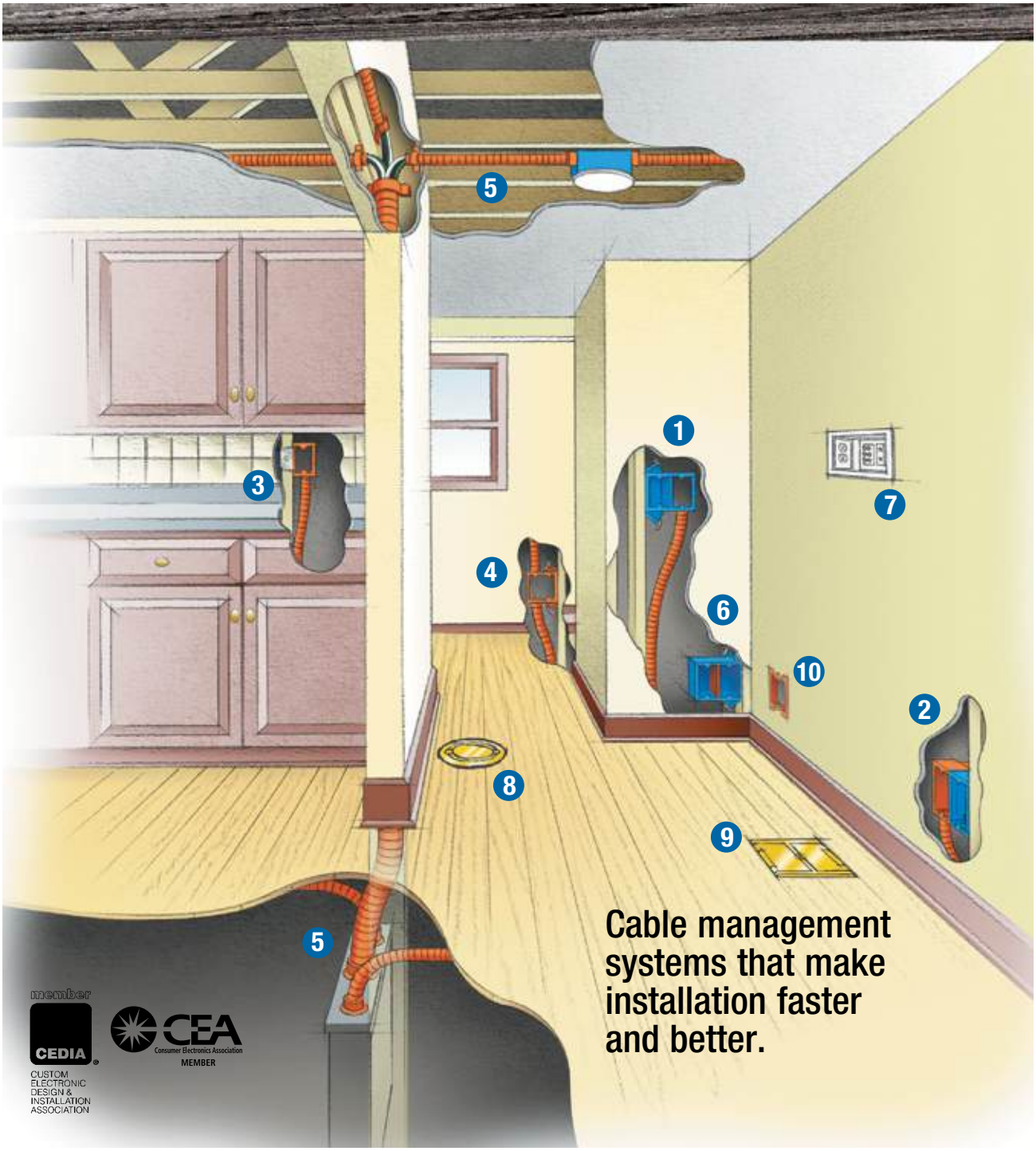
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## Low-Voltage Structured Cable Management System

# Carlon® Orange Structured Cable Management System

Carlon® Structured Cable Management System (SCMS) is designed for general-purpose low-voltage residential wire and cable management. This series of boxes and brackets are accompanied by a corrugated conduit system and accessories to future-proof your home.





# Low-Voltage Structured Cable Management System

## 1 Dual-Voltage Box/Bracket



Here's a smart alternative for where you would normally use separate high- and low-voltage boxes. Designed to fit a standard two-gang faceplate, this component combines an electrical box and low-voltage bracket into a single unit for fast, easy installation. No alignment tools are required and easy nail-on mounting provides precise placement and a professionally finished appearance. Resi-Rings accept ¾" Resi-Gard® fittings only...SC200DV

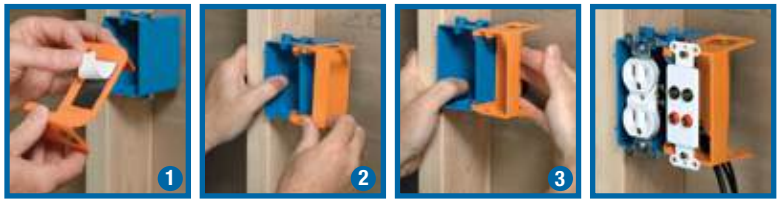


*Why waste time mounting, then trying to line up separate high-voltage and low-voltage boxes, and still end up with something not quite right? Our Dual-Voltage Box/Bracket lets you do it all in one fast, easy step with perfect alignment every time.*

## 2 Low-Voltage Add-On Bracket



This low-voltage bracket provides a low-voltage outlet next to a previously installed high-voltage outlet. Great for both new construction and rework, it attaches easily to most electrical boxes and is designed to fit a standard two-gang faceplate. Resi-Rings accept ¾" Resi-Gard® fittings only…SC100SC




*Attaching the Add-On Bracket is a "snap." You just remove the back of the double-sided tape (1), clip the bracket in place (2) and press on the bracket to secure it against the box (3). Enables the installation of most rectangular yoke plates.*

## 3 Low-Voltage Adjustable Brackets

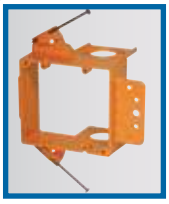


Our Low-Voltage Adjustable Brackets are the perfect solution for tile, paneling or stucco. A bracket enables quick, easy stud mounting and a turn of the screw adjusts to any wall thickness. It's great for retrofit/installation upgrades. Replace the single-gang bracket with a two-gang bracket or switch services to a high-voltage Adjust-A-Box™ device… SC100ADJC (shown) and SC200ADJC




*Our Low-Voltage Adjustable Brackets simplify installation with tile, paneling or stucco to save you time and effort. Just use the quick-mount bracket to clip it to the stud (1), add a screw for extra support if you want it (2), then use the adjustment screw to accommodate wall thickness (3). Also available in a two-gang version.*

## 4 Low-Voltage Brackets



Here's the fast installation choice when only low voltage is required. Designed to fit a standard one-, two- or three-gang faceplate, these low-voltage brackets feature an easy nail-on mounting or screw-in bracket, while a hard shell provides increased durability and no racking. Resi-Rings accept ¾", 1" and 1¼" Resi-Gard® fittings (one- and two-gang versions only)… SC100A, SC200A (shown) and SC300A



*Our Low-Voltage Brackets are open-backed to easily accommodate the bend radiuses required for low-voltage cabling and deep devices such as volume controls, while molded-in ports make it easy to connect flexible raceway for future-proofing. Or, you can use them to tie off cable to the bracket. They can also be attached to wood or steel studs.*



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# Low-Voltage Structured Cable Management System



**5**



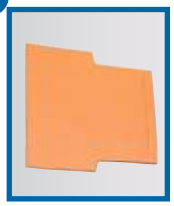
### Resi-Gard® Flexible Raceway and Fittings

Available in five sizes from ¾" to 2", with factory-installed pull tape in sizes 1" to 2", our Resi-Gard® Flexible Raceway provides a main chase from the main distribution panel to a secondary hub in the attic or basement. Ideal for easy access to add cable or service upgrades or leave empty for future expansion.



*Our complete line of quick-connect couplings, adapters, cable clips, conduit clamps and solvent cement make for quick, easy professional installation of Resi-Gard® Flexible Raceway.*

**6**



### Dual-Voltage Box/Bracket

For applications where a combined high- and low-voltage closed-back box is needed, such as placement in a fire-rated wall, we offer our Carlon® SuperBlue® two-, three- and four-gang wiring boxes with a slip-in-place divider to give you the split box you need for the low-voltage outlet… SCDIV



*What could be easier than converting one of our Carlon® SuperBlue® boxes for both high- and low-voltage use? Just slip the divider into place and you're ready to go. Great for situations requiring a dual-voltage fire-rated box.*

**7**



### Recessed Dual-Voltage 3-Gang Old Work Plate

The New Carlon® RDV 3-Gang Old Work Plate has been developed to simplify today's in-home entertainment/networking needs. The box is designed to accommodate the wires, cables and cords used with flat-panel display installations. It features a two-gang low-voltage opening and a one-gang opening for an outlet/switch box (boxes, devices and plates not included)… SC300PRB and SC300PRR



*The high-gloss, recessed design eliminates unsightly wires, cables and cords and blends with any décor. The RDV Old Work Plate makes installing flat panel displays faster and easier!*

**8**



### Drop-In Floor Box

The Carlon® Drop-In Floor Box with Brass Cover combines many of the same features of our existing floor box line with the strength, durability and style necessary to accommodate today's residential electrical/telecommunication needs. The Carlon® Drop-In Floor Box is the fastest, easiest way for contractors to put a floor socket anywhere they need it! It's designed to accommodate line voltage and low-voltage applications… E971FBDI-2 and E971FBDIB-2



*Turn off electricity before starting. Drill hole in floor using hole saw. Pull romex through floor. Connect receptacle wires to romex. Brass cover snaps into place. Use a small screwdriver to pry open brass cover to plug in appliance.*

*For more information about this floor box, refer to* ***www.tnb.com*** *or the Thomas & Betts Residential catalog.*

# Low-Voltage Structured Cable Management System

**9**



### Adjust-A-Box® Floor Box

Carlon® Adjust-A-Box® Floor Boxes make installing floor outlets fast and easy by providing maximum installation flexibility. The box features an adjustment screw designed to adjust the box from 0" to 1¾" by simply turning the screw clockwise or counterclockwise, providing a flush mount every time… B234BFBB (brass cover) and B234BFSS (stainless steel)







*Install clip over subfloor. Screw in to adjust to height of flooring or carpet. Beautiful flush fit every time!*

*For more information about this floor box, refer to* ***www.tnb.com*** *or the Thomas & Betts Residential catalog.*

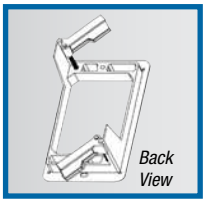
**10**



### Old Work Bracket

Carlon® Low-Voltage Old Work Brackets are specifically designed for the installation of low-voltage devices such as cable television, data communications or telephone jacks in an existing wall. The backless feature provides the space needed for the bend radius requirements of coaxial or data/communication cables. It also eliminates the need for metal plates, lags or screws… SC100RR (shown) and SC200RR






*1. Use the holes in the corners to mark the opening.*
*2. Cut out the drywall.*
*3. Place box in wall.*
*4. Secure box to wall.*



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# Low-Voltage Structured Cable Management System



## Dual-Voltage Box/Bracket

- Dual-voltage capability
- Accepts a two-gang faceplate
- ¾" Resi-Rings®
- Backless design accommodates large/deep low-voltage devices
- Eliminates cutting the backs off electrical boxes
- Accommodates bend-radius requirements for low-voltage cabling
- Provides ample space for installation



E-18-4-DV



SB-21-DV



SC200DV



SN-21-DV

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DIMENSIONS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|
| **E-18-4-DV•** | 18.0 | Dual Voltage | 3¾ L x 4 W x 3 D | 50 |
| **SB-21-DV•** | 20.5 | Molded Bracket for Wood/Steel Studs | 3⅝ L x 4 W x 3 7/16 D | 50 |
| **SC200DV•** | 20.5 | Angled Side Nails | 3.69 L x 4.04 W x 3.67 D | 16 |
| **SN-21-DV•** | 20.5 | Angled Side Nails | 35/8 L x 4 W x 3 7/16 D | 50 |

*• UL Listed E11461.*

*Permissible for use with 90° C insulated conductors.*

*80° C heat-rated material.*

## Low-Voltage Brackets

- Backless design accommodates large/deep low-voltage devices
- Eliminates cutting the backs off electrical boxes
- Accommodates bend-radius requirements for low-voltage cabling
- Provides ample space for installation
- Mount Flange for steel stud application

**One- and two-gang versions only:**

- Resi-Rings® with concentric knockouts
- Accepts ¾", 1" and 1¼" Resi-Gard®
- Horizontal mounting bracket (one-gang only)
- Breakaway drywall support flange provides easy alignment for ½" drywall
- Screw-mount option
- Breakaway vertical mounting flange
- Breakaway feature enables the use of the Low-Voltage Add-On Bracket

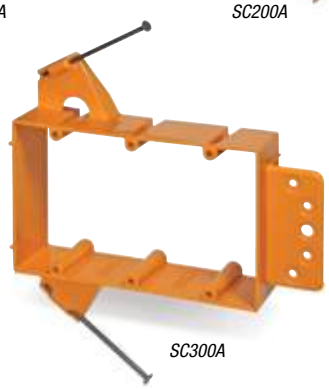
Where noted by ▶



SC100A



SC200A



SC300A

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **SC100A•** | N/A | Captive Nails | ¾", 1", 1¼" Resi-Rings® | 3.73 L x 2.32 W x 3.15 D | 24 |
| **SC200A•** | N/A | Captive Angled Nails | ¾", 1", 1¼" Resi-Rings® | 3.77 L x 4.07 W x 3.15 D | 24 |
| **SC300A•▶** | 44 | Captive Angled Nails | — | 3.69 L x 5.81 W x 1.50 D | 5 |

*• UL Listed E216492.*

## Low-Voltage Add-On Bracket

- Dual-voltage capability accommodates high- and low-voltage devices in the same box
- Attaches to virtually any non-metallic electrical box as long as there's a side for the tape to stick to
- Accepts a two-gang faceplate
- ¾" Resi-Rings®
- Enables the installation of most rectangular yoke plates



*SC100SC*

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **SC100SC•** | N/A | Tape | 1-Gang | 3.68 L x 2.36 W x 3.10 D | 24 |

• *UL Listed E216492.*

## Low-Voltage Adjustable Brackets

- Accommodates varying finished-wall thicknesses — ideal for wood paneling, tile or stucco walls
- With the turn of a screw, adjust to any wall thickness
- Steel mounting bracket provides a secure mount
- Backless design accommodates large/deep low-voltage devices
- Eliminates cutting the backs off electrical boxes
- Accommodates bend-radius requirements for low-voltage cabling
- Provides ample space for installation
- Removable bracket and interchangeable mounting bracket — upgrade from a one-gang to a two-gang anytime

Carlon® Exclusive



*SC100ADJC*

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **SC100ADJC•** | 21 | Adjustable Bracket | 1-Gang | 3.56 L x 3.88 W x 1.69 D | 24 |
| **SC200ADJC•** | 34 | Adjustable Bracket | 2-Gang | 3.56 L x 5.63 W x 1.69 D | 20 |

• *UL Listed E216492.*



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# Low-Voltage Structured Cable Management System



## Old Work Brackets

- Rectangular flange for faster/easier installation
- Shallow bracket — less material, easier to work with
- Marking hole for wall opening
- Thinner flange for less protrusion on the wall
- SINGLE-GANG ONLY — clamps stop at center point to prevent the bracket from twisting or bending out of the wall

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **SC100RR•** | N/A | Adjustable Bracket | 1-Gang | 4.32 L x 2.52 W x 1.66 D | 12 |
| **SC200RR•** | N/A | Adjustable Bracket | 2-Gang | 4.28 L x 4.28 W x 1.66 D | 6 |

• *UL Listed E216492.*



*SC100RR* *SC200RR*

## Low-Voltage Divider Plate

| CAT. NO. | STD. CTN. |
|---|---|
| **SCDIV•** | 50 |

• *For use with Carlon® SuperBlue™ boxes only.*



## Mud Ring (4" Square ½" Raised Cover)

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **SCA410•** | 1-Gang | 20 |

• ***Note:*** *Classified for two-hour fire-resistive wall assemblies when used with Two-Gang Quick-Connect Outlet and Switch Boxes.*

*UL Listed E11461.*



## *Low-Voltage Structured Cable Management System*

# Low-Voltage Adjustable Floor Bracket with Cover

The Carlon® Low-Voltage Adjustable Floor Bracket is specifically designed for the low-voltage, structured cabling market…the floor bracket is industry-standard orange to identify low-voltage applications, the open design provides the space needed for low-voltage bend radius requirements and the Leviton QuickPort® Quad 106® Insert provides up to four low-voltage outlet ports. The Carlon® Low-Voltage Adjustable Floor Bracket is ideal for any residential or commercial low-voltage application.

The floor bracket also features a unique screw design, enabling it to be adjusted to most finished-floor heights by simply turning the screw clockwise or counterclockwise and adjusting flush to the floor.

The floor bracket kit comes complete with a non-metallic (white or ivory) or brass cover, a Leviton QuickPort® Quad 106® Insert, new work and old work metal mounting brackets and mounting screws.

Carlon® Structured Cable Management Systems…Your Total Systems Solution!



Carlon® Exclusive

- White, ivory or brass cover
- Orange — identifies low-voltage installations
- Open-design floor bracket — accommodates low-voltage bend radius requirements
- Adjustable screw — bracket adjusts to most finished-floor depths
- Leviton® QuickPort® Quad 106® Insert — install up to four low-voltage inserts
- Two-door design
- cUL-US Listed

*QuickPort® and Quad 106® are registered trademarks of Leviton Manufacturing Co., Inc.*

### One-Gang Adjustable

| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **SC100FBWC•** | N/A | Adjustable Bracket | Non-Metallic — White | 2.80 L x 4.36 W x 1.72 D | 8 |
| **SC100FBVC•** | N/A | Adjustable Bracket | Non-Metallic — Ivory | 2.80 L x 4.36 W x 1.72 D | 8 |
| **SC100FBBC•** | N/A | Adjustable Bracket | Brass | 2.80 L x 4.36 W x 1.72 D | 8 |

• *UL Listed E216492.*

## Installation:



*Install clip over subfloor.*



*Screw in to adjust to height of flooring or carpet.*



*Beautiful flush fit every time!*



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## *Low-Voltage Structured Cable Management System*

# Recessed Dual-Voltage 3-Gang Old Work Plate





The New Carlon® RDV 3-Gang Old Work Plate has been developed to simplify today's in-home entertainment/networking needs. The box is designed to accommodate the wires, cables and cords used with flat-panel display installations. It features a two-gang low-voltage opening and a one-gang opening for an outlet/switch box (boxes, devices and plates not included). The hi-gloss, recessed design eliminates unsightly wires, cables and cords and blends with any décor. The RDV Old Work Plate makes installing flat-panel displays faster and easier!

# Recessed Dual-Voltage 3-Gang Old Work Plate *(continued)*

**Features:**

- 3-gang dual-service capability: accommodates one line voltage and two low-voltage services using one plate (boxes, devices and plates not included)
- Recessed low-profile design: eliminates unsightly wires and plug heads
- Universal 1-gang outlet/switch opening: select the size box you need
- Pre-assembled box and frame: reduces labor time and saves money
- Shallow design: provides ample room behind the drywall and between the studs and accommodates cable bend requirements
- Four swing-out clamps: locks the plate securely to the wall — horizontal or vertical mount
- Superior hi-gloss, paintable finish: professional appearance and blends with any décor
- Non-metallic, ABS material: lightweight and easy to handle

## Installation:

**Please read these instructions completely before attempting installation.**

***IMPORTANT!*** *Before attempting installation, be sure power is off by removing the fuse or switching the circuit breaker to "off." Make sure the Recessed Dual-Voltage Plate is installed in accordance with the National Electrical Code® (NEC®) and local codes. NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



1. Locate studs and determine if they are 16" or 24" apart. If 16" apart, measure a maximum of 3" from edge of stud to determine plate location. If 24" apart, center plate between studs.

   ***Note:*** *High-voltage side must be 3" from stud.*

2. Place SC300PRB or SC300PRR face down against the wall. Using a hammer, tap around the edge of the plate to mark area to be cut out **(Fig. 1)**. Remove plate from wall, a line should be visible on the drywall. Cutout should be approximately 6.25" x 9.25".
3. Carefully cut out area of drywall with a utility knife or drywall saw.
4. Place SC300PRB or SC300PRR in wall and secure by tightening down all four Zip-Mount retainers **(Fig. 2)**.
5. Select device and outlet/switch box, CAT. NO. B114R (14 cu. in.) or B120R (20 cu. in.), based on wire fill needs **(Fig. 3)**.
6. Insert wires through boxes (B114R or B120R and SC300PRB or SC300PRR). Make sure high- and low-voltage wires do not come in contact with one another.
7. Install Carlon® Old Work Zip Box®, model B114R or B120R **(Fig. 4)**.
8. Install receptacle and faceplate per manufacturer's instructions **(Fig. 5)**.
9. Install low-voltage devices and faceplate per manufacturer's instructions **(Fig. 6** and **Fig. 7)**.

   ***Note:*** *When preparing for later installation of low-voltage devices, use a 2-gang blank plate to cover wall opening for a clean finished look.*



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# Low-Voltage Structured Cable Management System

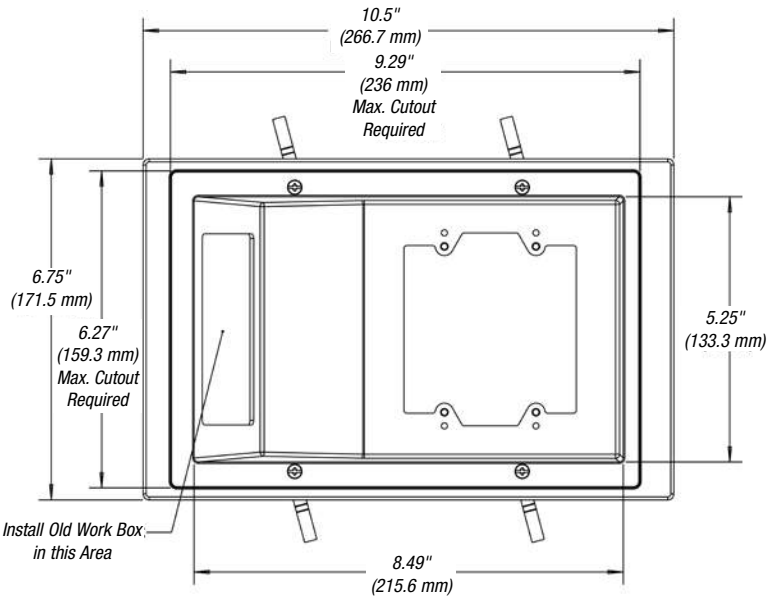


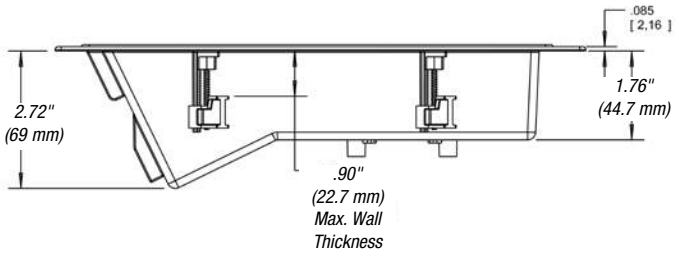
## Installed:





*Top view showing ample room between drywall and studs*




| CAT. NO. | SIZE CU. IN. | MOUNTING MEANS | DESCRIPTION | DIMENSIONS (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **SC300PRB** | N/A | Zip-Mount Retainers | RDV 3-Gang Old Work Plate | 6.75 L x 10.5 W x 2.72 D | 20 |
| **SC300PRR** | N/A | Zip-Mount Retainers | RDV 3-Gang Old Work Plate with Outlet Box (B114R) | 6.75 L x 10.5 W x 2.72 D | 3 |

## Low-Voltage Structured Cable Management System

# Resi-Gard® Flexible Raceway



Ideal for providing a main chase from the main distribution panel to a secondary hub in the attic or basement, Resi-Gard® non-metallic flexible raceway is available in ¾" to 2" diameter sizes with factory-installed pull tape in sizes 1" to 2". The raceway is hand bendable, lightweight and easily cut to length to reduce scrap. Bright orange color clearly signifies a low-voltage installation.

### Standard-Length Coils

| CAT. NO. | SIZE (IN.) | PULL TAPE | DESCRIPTION | REEL LENGTH (FT.) |
|---|---|---|---|---|
| **SCE4X1-100•** | ¾ | Empty* | Flexible Raceway | 100 |
| **SCF4X1C-100•** | 1 | 900 lbs. | Flexible Raceway | 100 |
| **SCG4X1C-100•** | 1¼ | 900 lbs. | Flexible Raceway | 100 |
| **SCH4X1C-50•** | 1½ | 900 lbs. | Flexible Raceway | 50 |
| **SCJ4X1C-100•** | 2 | 900 lbs. | Flexible Raceway | 50 |

*• UL Listed E151168.*

*FT-1 Rated*

** If installing own tape, a lubricated polyester is recommended.*

### Standard-Length Reels*

| CAT. NO. | SIZE (IN.) | PULL TAPE | DESCRIPTION | REEL LENGTH (FT.) |
|---|---|---|---|---|
| **SCE4X1-1000•** | ¾ | Empty | Flexible Raceway | 1000 |
| **SCF4X1C-1500•** | 1 | 900 lbs. | Flexible Raceway | 1500 |
| **SCJ4X1C-500•** | 2 | 900 lbs. | Flexible Raceway | 500 |

** Made to order*

*• UL Listed E151168.*

*FT-1 Rated*



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# Resi-Gard® Fittings

## Quick-Connect Coupling



| CAT. NO. | SIZE (IN.) | STD. CTN. |
|---|---|---|
| SCA240E• | ¾ | 25 |
| SCA240F• | 1 | 20 |

• *UL Listed E86720*

## Male Terminal Adapter*



| CAT. NO. | SIZE (IN.) | STD. CTN. |
|---|---|---|
| SCE943G• | 1¼ | 50 |
| SCE943H• | 1½ | 25 |
| SCE943J• | 2 | 50 |

• *UL Listed E23018.*

** Must be cemented to Resi-Gard® Flexible Raceway using ONLY Resi-Gard® Solvent Cement.*

## Quick-Connect Threaded Adapter



| CAT. NO. | SIZE (IN.) | STD. CTN. |
|---|---|---|
| SCA243E• | ¾ | 25 |
| SCA243F• | 1 | 20 |

• *UL Listed E86720*

## Standard Couplings*



| CAT. NO. | SIZE (IN.) | STD. CTN. |
|---|---|---|
| SCE940G• | 1¼ | 30 |
| SCE940H• | 1½ | 25 |
| SCE940J• | 2 | 30 |

• *UL Listed E23018.*

** Must be cemented to Resi-Gard® Flexible Raceway using ONLY Resi-Gard® Solvent Cement.*

## Quick-Connect Snap-In-Adapter



| CAT. NO. | SIZE (IN.) | STD. CTN. |
|---|---|---|
| SCA253E• | ¾ | 25 |
| SCA253F• | 1 | 20 |

• *UL Listed E86720*

## PVC Lock Nut



| CAT. NO. | SIZE (IN.) | STD. CTN. |
|---|---|---|
| LT9E• | ¾ | 700 |
| LT9F• | 1 | 600 |

• *UL Recognized.*

# Low-Voltage Structured Cable Management System

## Cable Clips

Pre-installed nails provide fast and easy installation for either a single cable, two to three cables or one bundled cable.





*SC34CC* *SC12CC* *SC14CC*

| CAT. NO. | SIZE (IN.) | STANDARD BAG QUANTITY | STD. CTN. |
|---|---|---|---|
| **SC14CC** | ¼ | 1 Ea. (Equals One Bag of 100 Clips) | 10 Bags of 100 |
| **SC12CC** | ½ | 1 Ea. (Equals One Bag of 25 Clips) | 310 Bags of 25 |
| **SC34CC** | ¾ | 1 Ea. (Equals One Bag of 10 Clips) | 20 Bags of 10 |

## Conduit Clamps

Designed to secure Resi-Gard® raceway or bundled cable.



| CAT. NO. | SIZE (IN.) | STANDARD BAG QUANTITY | STD. CTN. |
|---|---|---|---|
| **SCE977EC** | ¾ | 1 Ea. (Equals One Bag of Five Clamps) | 20 Bags of 5 |
| **SCE977FC** | 1 | 1 Ea. (Equals One Bag of Five Clamps) | 12 Bags of 5 |
| **SCE977GC** | 1¼ | 1 Ea. (Equals One Bag of Five Clamps) | 8 Bags of 5 |
| **SCE977HC** | 1½ | 1 Ea. (Equals One Bag of Five Clamps) | 6 Bags of 5 |
| **SCE977JC** | 2 | 1 Ea. (Equals One Bag of Five Clamps) | 6 Bags of 5 |

***Note:*** *Each clamp requires two screws, two nuts and/or two bolts.*

## Resi-Gard® Solvent Cement

| RECOMMENDED PIPE APPLICATION AND SIZES | SET-UP TIME (EVAPORATION RATE) | RECOMMENDED INSTALLATION TEMP. | LAP SHEAR @ 73° F | VISCOSITY AT 75° F AS MANUFACTURED |
|---|---|---|---|---|
| For use with Resi-Gard®, Riser-Gard®, P&C Flex™ and Carlon PVC fittings. *Up through 6" diameter.* | 10°–30° F Use extra caution | 40°–100° F | 2 hrs. 350 psi | 500–900 cps |
| | 30°–50° F 5–6 minutes | | 16 hrs. 800 psi | |
| | 50°–70° F 3–4 minutes | | 72 hrs. 1500 psi | |
| | 70°–90° F 1–2 minutes | | | |

| CAT. NO. | SIZE (IN.) | APPLICATOR | DESCRIPTION | STD. CTN. |
|---|---|---|---|---|
| **VC9963SC** | Pint | Brush | Resi-Gard® Solvent Cement Clear | 24 |

*Meets ASTM D-2564.*




## Cutters

Ideal for fast, smooth field cuts for up to 1" diameter Resi-Gard® non-metallic flexible raceway. The large PVC Cutter is ideal for cuts up to 2" diameter non-metallic rigid and flexible raceway.

### Small Cutter

For fast, smooth field cuts of ½" through 1" innerduct.



| CAT. NO. | SIZE (IN.) | STD. CTN. |
|---|---|---|
| **CC120B** | 8 | 10 |

### Medium Cutter

For fast square, smooth, field cuts on conduit ½" through 1¼".



| CAT. NO. | SIZE (IN.) | STD. CTN. |
|---|---|---|
| **CC125** | 9 | 1 |

### Large Cutter

For clean cuts of conduit ½" through 2".



| CAT. NO. | SIZE (IN.) | STD. CTN. |
|---|---|---|
| **CC122** | 17½ | 1 |



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Steel City®

# Steel City® Floor Boxes

## In this section...



### Steel City® Floor Boxes


Overview ..... A-122–A-128
Recessed Service Floor Boxes ..... A-129–A-142
Flush Service Floor Boxes ..... A-143–A-169
Above-Floor Service Fittings ..... A-170
Replacement Parts and Accessories ..... A-171–A-172
Poke Through Systems ..... A-173–A-185
Access Floor Modules ..... A-186–A-196


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## Overview

# Recessed Service Floor Boxes



The aesthetic and technical needs of today's buildings are as diverse as the equipment that fills them. Small wonder, then, that floor boxes can continue to solve the needs of today and the future as they did in the early 1900s when they were invented. They are still a contemporary, capable and cost-effective wire-management system. Steel City®, a pioneer in both the design and applications of floor boxes since 1904, invites you to discover or rediscover the possibilities.

Visit **www.tnb.com/floorboxselect** to use our online floor box selection tool to quickly and easily identify an appropriate in-floor solution for your needs.





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## Overview

# Recessed Service Floor Boxes — Outlets Below Floor Level

### 663-SC (2-Gang)

- Material: Stamped Steel
- Covers: P62 and P60 Series



*See **page A-129.***

### 664-SC/664-S (2-Gang)

- Material: Stamped Steel
- Covers: MopTite® 664-CST SW Series



*See **page A-130.***

### 664-CI (2-Gang)

- Material: Cast Iron
- Covers: MopTite® 664-CST-SW Series



*See **page A-130.***

### 665-SC/665-CI/ 665-AV2 (4-Gang)

- Material: Stamped Steel/Cast Iron
- Covers: MopTite® 665-CST-SW Series



*See **pages A-132–A-135.***

### 668-S (4-Gang)

- Material: Stamped Steel
- Covers: MopTite® 668-CST



*See **pages A-136–A-137.***

### 667-SC (8-Gang)

- Material: Stamped Steel
- Covers: MopTite® 667-CST-SW Series



*See **pages A-138–A-139.***

### Access Floor Modules

- Material: Stamped Steel
- Covers: MopTite® covers, assembled



*See **pages A-186–A-195.***

# Poke-Through Systems

UL File No. E2969



**Flush Service**

*See **pages A-174–A-179.***



**Furniture Feed**

*See **pages A-180–A-182.***



**Pedestal**

*See **page A-183.***

## Overview

# Flush-Service Floor Boxes — Outlets at Floor Level

### 68-HP Series

- Material: Non-Metallic
- Covers: 68-HP Series



*See **pages A-143–A-146.***

### 68 Series

- Material: Stamped Steel
- Covers: MopTite® P60 Series



*See **pages A-147–A-149.***

### 600 Series

- Material: Cast Iron
- Covers: MopTite® P60 Series



*See **pages A-147–A-149.***

### 68P Series

- Material: Non-Metallic
- Covers: MopTite® P60 & P68 Series



*See **pages A-150–A-153.***

### 78 Series

- Material: Cast Iron
- Covers: MopTite® P90 Series



*See **pages A-154–A-155.***

### 88 Series

- Material: Stamped Steel
- Covers: MopTite® P90 Series



*See **pages A-154–A-155.***

### 640 Series (1-, 2-, 3- & 4-Gang)
### 840 Series (1-, 2- & 3-Gang)

- Material: Cast Iron
- Covers: MopTite® P64 Series



*See **pages A-158–A-161.***



*See **pages A-158–A-161.***

### 640P Series (1-, 2- & 3-Gang)

- Material: Non-Metallic
- Covers: 640P Series Activations with MopTite® P64 Series Covers



*See **pages A-162–A-163.***

### 740 Series (1-, 2- & 3-Gang)

- Material: Stamped Steel
- Covers: 640P Series Activations with MopTite® P64 Series Covers

UL File No. E2969

CSA File No. L12798



*See **pages A-164–A-167.***



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# Overview



## Floor Box Selection Guide

| CAT. NO. | SERVICE CAPABILITIES: RECEPTACLES: SINGLE | DUPLEX | GFCI | MULTIPLE SERVICE CAPABILITIES | FLOOR BOX BODY MATERIAL: CAST IRON | STAMPED STEEL | NON-METALLIC | MINIMUM DEPTH OF POUR: 2" | 2½" | 3" | 3½" | 4" | 4½" | WOOD FLOOR | ADJUSTABILITY: FULLY- | SEMI- | NON- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GAB-4, GAB-6 | | • | • | • | | | | | | | | | • | | | | |
| SFH-40 SERIES | • | • | | Duplex | | | | | | | | | | | | | • |
| SFH-50 SERIES | • | • | | 2 duplexes or low voltage | | | | | | | | | | | | | • |
| SFL-10 SERIES | | | | Com./data only | | | | | | | | | | | | | • |
| 600 | • | • | • | | | | | | | • | | | | | | | |
| 601 | • | • | • | | | | | | | • | | | | | | | |
| 602 | • | • | • | | | | | | • | | | | | | | | |
| 603 | • | • | • | | | | | | • | | | | | | | | |
| 604 | • | • | | | • | | | | | | | | | • | | | |
| 61-W | | • | • | | | • | | | | | | | | • | 13/16" adjustment after installation | | |
| 62-W | | | • | 2 duplexes, 2 com./data or 1 duplex with com./data | | • | | | | | | | | • | | | |
| 641 | • | • | • | 1-gang; 1 service per gang | • | | | | | | | • | | | • | | |
| 641P | • | • | • | 1-gang; 1 service per gang | • | | • | | | | | | | | • | | |
| 642 | • | • | • | 2-gang; 1 service per gang | • | | | | | | | • | | | • | | |
| 642P | • | • | • | 2-gang; 1 service per gang | • | | • | | | | | | | | • | | |
| 643 | • | • | • | 3-gang; 1 service per gang | • | | | | | | | • | | | • | | |
| 643P | • | • | • | 3-gang; 1 service per gang | • | | • | | | | | | | | • | | |
| 644 | • | • | • | 4-gang; 1 service per gang | • | | | | | | | | • | | • | | |
| 663-SC | | • | | Two duplexes, two communications/data or one duplex with com./data | | • | | | | | | • | | | • | | |
| 664-CI | | • | • | | • | | | | | | | • | | | • | | |
| 664-S | | • | | | | • | | | | • | | | | | • | | |
| 664-SC | | • | • | | | • | | | | | | • | | | • | | |
| 665 | | • | • | Up to 4 devices or any combination of pwr. com./data | | • | | | | | • | | | | • | | |
| 665-CI | | • | • | Up to 4 devices or any combination of power/data | • | | | | | | | • | | | • | | |
| 667-SC | | • | • | Up to 8 devices or any combination of pwr. com./data | | • | | | | | | | • | | • | | |
| 668-S | | • | • | Up to 4 devices or any combination of power/data | | • | | | • | | | | | | • | | |
| 671-SC | • | | | • | | | | | | • | | | • | | | • | |
| 672 | • | | | • | | | | | | • | | | • | | | • | |
| 68-D | • | • | • | | • | | | | | • | | | | | | | |
| 68-P | • | • | | 1 duplex, up to 8 data jacks | | | • | | | | | | | | • | | |
| 68-S | • | • | • | | • | | | | • | | | | | | | | |
| 71-W | | • | • | | | • | | | | | | | | • | | | |
| 78-S | • | | | • | | | | | • | | | | | | • | | |
| 78-SC | • | | | • | | | | | • | | | | | | • | | |
| 841-SC | • | • | • | 1-gang; 1 service per gang | • | | | • | | | | | | | | • | |
| 842-SC | • | • | • | 2-gang; 1 service per gang | • | | | • | | | | | | | | • | |
| 843-SC | • | • | • | 3-gang; 1 service per gang | • | | | • | | | | | | | | • | |
| 88-D | • | | | | • | | | | • | | | | | | • | | |
| 88-S | • | | | | • | | | | • | | | | | | • | | |
| GAB-8-S | • | • | • | • | | • | | | | | | | | 6" | | • | |

# Overview

## Floor Box Cover Selection Guide

| FLOOR BOX CAT. NO. | DESCRIPTION | COVER PLATES | CARPET ACTIVATIONS BRASS | CARPET ACTIVATIONS ALUMINUM | CARPET ACTIVATIONS NON-METALLIC | TILE ACTIVATION BRASS | TILE ACTIVATION ALUMINUM | TILE ACTIVATION NON-METALLIC |
|---|---|---|---|---|---|---|---|---|
| **663-SC** | Concealed Service — Steel | P60 Series | P60-CP | P60-CPL | P62-CP | P62-TAR | SP-P62-TAR-A | N/A |
| **664-SC** | Concealed Service — Steel | 664-CST-Series | N/A | N/A | 664-CST-Series | N/A | N/A | N/A |
| **664-S** | Shallow Concealed Service — Steel | 664-CST-Series | N/A | N/A | 664-CST-Series | N/A | N/A | N/A |
| **664-CI** | Concealed Service — Cast Iron | 664-CST-Series | N/A | N/A | 664-CST-Series | N/A | N/A | N/A |
| **68-S** | Flush Service — Steel | P60 Series | P60-CP<br>P60-CACP | P60-CPAL<br>P60-CACPAL | P60-LCP | * | ** | — |
| **68-D** | Flush Service — Steel | P60 Series | P60-CP<br>P60-CACP | P60-CPAL<br>P60-CACPAL | P60-LCP | * | ** | — |
| **68-P** | Flush Service — Non-Metallic | P60 Series | P60-CP<br>P60-CACP | P60-CPAL<br>P60-CACPAL | P68-SRC Color<br>P68-DRC-Color<br>P68-ECC-Color | 68-PAR-W/<br>600-4-FL | 68-PAR-W/<br>600-4-FL-AL | — |
| **600-SC SERIES** | Flush Service — Cast Iron | P60 Series | P60-CP<br>P60-CACP | C60-CPAL<br>P60-CACPAL | N/A | * | ** | — |
| **601-SC SERIES** | Flush Service — Cast Iron | P60 Series | P60-CP<br>P60-CACP | C60-CPAL<br>P60-CACPAL | N/A | * | ** | — |
| **602-SC SERIES** | Flush Service — Cast Iron | P60 Series | P60-CP<br>P60-CACP | C60-CPAL<br>P60-CACPAL | N/A | * | ** | — |
| **603-SC SERIES** | Flush Service — Cast Iron | P60 Series | P60-CP<br>P60-CACP | C60-CPAL<br>P60-CACPAL | N/A | * | ** | — |
| **604-SC SERIES** | Flush Service — Cast Iron | P60 Series | P60-CP<br>P60-CACP | C60-CPAL<br>P60-CACPAL | N/A | * | ** | — |
| **641** | Flush Service — Cast Iron | P64 Series | P64-CP | P64-CPAL | P64-CP Series<br>P-64-LCP | * | ** | N/A |
| **641P** | Flush Service — Non-Metallic | P64 Series<br>P64P Series | 641P-CACB | 641P-CACA | 641P-CAC Series | 641P-TACB | 641P-TACA | 641P-TAC-Series |
| **642** | Flush Service — Cast Iron | P64 Series | P64-2GCP | P64-2GCPAL | P64P-2GCP Series<br>P64-2LCP | * | ** | N/A |
| **642P** | Flush Service — Non-Metallic | P64 Series<br>P64P Series | 642P-CACB | 642P-CACA | 642P-CAC Series | 642P-TACB | 642P-TACA | 642P-TAC Series |
| **643** | Flush Service — Cast Iron | P64 Series | P64-3GCP | P64-3GCPAL | P64P-3GCP Series<br>P64-3LCP | * | ** | N/A |
| **643P** | Flush Service — Non-Metallic | P64 Series<br>P64P Series | 643P-CACB | 643P-CACA | 643P-CAC Series | 633P-TACB | 643P-TACA | 643P-TAC Series |
| **644** | Flush Service — Cast Iron | P64 Series | P64-4GCP | P64-4GCPAL | N/A | * | ** | N/A |
| **841-SC** | Shallow Flush Service — Cast Iron | P64 Series | P64-CP | P64CPAL | P64P-CP Series<br>P64-LCP | * | ** | N/A |
| **842-SC** | Shallow Flush Service — Cast Iron | P64 Series | P64-2GCP | P64-2GCPAL | P64P-2GCP Series<br>P64-2LCP | * | ** | — |
| **843-SC** | Shallow Flush Service — Cast Iron | P64 Series | P64-3GCP | P64-3GCPA | P64-3GCP Series<br>P64-3LCP | * | ** | N/A |
| **78-SC** | Flush Service — Cast Iron | P90 Series | P90-CP | P90-CPAL | N/A | * | ** | N/A |
| **78S** | Flush Service — Cast Iron | P90 Series | P90-CP | P90-CPAL | N/A | * | ** | N/A |
| **671** | Flush Service — Cast Iron | P67 Series | P90-CP | P90-CPAL | N/A | — | ** | N/A |
| **672** | Flush Service — Cast Iron | P67 Series | P90-CP | P90-CPAL | N/A | * | ** | N/A |
| **88D** | Flush Service — Steel | P90 Series | P90-CP | P90-CPAL | N/A | * | ** | N/A |
| **88DA** | Flush Service — Steel | P90 Series | P90-CP | P90-CPAL | N/A | * | ** | N/A |
| **88S** | Flush Service — Steel | P90 Series | P90-CP | P90-CPAL | N/A | * | ** | N/A |
| **98** | Flush Service | P90 Series | P90-CP | P90-CPAL | N/A | * | ** | N/A |
| **665-SC** | Concealed Service | 665-CST Series | N/A | N/A | 665-CST Series | — | — | — |
| **667** | Concealed Service | 665-CST Series | N/A | N/A | 665-CST Series | — | — | — |
| **61W** | Flush Service — Steel | P64 Series | P64-CP | P64-CPAL | P64-CP Series | N/A | N/A | N/A |
| **62W** | Flush Service — Steel | P64 Series | P64-2GCP | P64-2GCPAL | P64-2GCP Series | N/A | N/A | N/A |

** Supplied standard with box.*
*** Supplied standard with -AL suffix box.*
*N/A Not Available.*



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# Overview

## Floor Box Cover Selection Guide

| COVER SERIES | COVER CAT. NO. | DESCRIPTION | STANDARD FINISH |
|---|---|---|---|
| P60 4" Dia. | **P-60-1/2** | ½" N.P.S. Plug | Brushed Brass |
| | **P-60-1/2-AL** | ½" N.P.S. Plug | Brushed Aluminum |
| | **P-60-3/4** | ¾" N.P.S. Plug | Brushed Brass |
| | **P-60-3/4-AL** | ¾" N.P.S. Plug | Brushed Aluminum |
| | **P-60-1** | 1" N.P.S. Plug | Brushed Brass |
| | **P-60-1-AL** | 1" N.P.S. Plug | Brushed Aluminum |
| | **P-60-1 1/4** | 1¼" N.P.S. Plug | Brushed Brass |
| | **P-60-1 1/4-AL** | 1¼" N.P.S. Plug | Brushed Aluminum |
| | **P-60-2** | 2" Dia. Plug | Brushed Brass |
| | **P-60-2-AL** | 2" Dia. Plug | Brushed Aluminum |
| | **P-60-2 5/8** | 2⅝" Dia. Plug | Brushed Brass |
| | **P-60-2 5/8-AL** | 2⅝" Dia. Plug | Brushed Aluminum |
| | **P-60-1/2-2** | ½" N.P.S. & 2" Dia. Plugs | Brushed Brass |
| | **P-60-1/2-2-AL** | ½" N.P.S. & 2" Dia. Plugs | Brushed Aluminum |
| | **P-60-3/4-2** | ¾" N.P.S. & 2" Dia. Plugs | Brushed Brass |
| | **P-60-3/4-2-AL** | ¾" N.P.S. & 2" Dia. Plugs | Brushed Aluminum |
| | **P-60-DU** | Two 1⅞" Dia. Plugs | Brushed Brass |
| | **P-60-DU-AL** | Two 1⅞" Dia. Plugs | Brushed Aluminum |
| | **P-60-DS** | Two Hinged Lift Lids | Brushed Brass |
| | **P-60-DS-AL** | Two Hinged Lift Lids | Brushed Aluminum |
| | **P-60-DR** | Single Hinged Lift Lid | Brushed Brass |
| | **P-60-DR-AL** | Single Hinged Lift Lid | Brushed Aluminum |
| | **P-60-GFCI** | GFCI Hinged Lift Lid | Brushed Brass |
| P60-CACP One-Piece 5¾" Dia. | **P-60-CACP** | One-Piece Carpet Plate with Two Hinged Lift Lids for Duplex | Brushed Brass |
| | **P-60-CACP-AL** | One-Piece Carpet Plate with Two Hinged Lift Lids for Duplex | Brushed Aluminum |
| | **P-60-CACP-GFCI** | One-Piece Carpet Plate with Two GFCI Hinged Lift Lids | Brushed Brass |
| | **P-60-3/4-2-CACP** | One-Piece Carpet Plate with 3⅝2 ¾" N.P.S. & 2" Dia. Plug | Brushed Brass |
| | **P-60-3/4-2-CACP-AL** | One-Piece Carpet Plate with ¾" & 2" N.P.S. Plugs | — |
| | **P-67-1/2** | ½" N.P.S. Plug | Brushed Brass |
| P67 3½" Dia. | **P-67-3/4** | ¾" N.P.S. Plug | Brushed Brass |
| | **P-67-3/4-AL** | ¾" N.P.S. Plug | Brushed Aluminum |
| | **P-67-1** | 1" N.P.S. Plug | Brushed Brass |
| | **P-67-1AL** | 1" N.P.S. Plug | Brushed Aluminum |
| | **P-67-1 1/4** | 1¼" N.P.S. Plug | Brushed Brass |
| | **P-67-2** | 2" Dia. Plug | Brushed Brass |
| | **P-67-2AL** | 2" Dia. Plug | Brushed Aluminum |
| | **P-67-1/2-2** | ½" N.P.S. & 2" Dia. Plugs | Brushed Brass |
| | **P-67-3/4-2** | ¾" N.P.S. & Dia. Plugs | Brushed Brass |

| COVER SERIES | COVER CAT. NO. | DESCRIPTION | STANDARD FINISH |
|---|---|---|---|
| P64 3" x 4 ½" Rectangular | **P-64-1/2** | ½" N.P.S. Plug | Polished Brass |
| | **P-64-1/2AL** | ½" N.P.S. Plug | Brushed Aluminum |
| | **P-64-3/4** | ¾" N.P.S. Plug | Polished Brass |
| | **P-64-3/4AL** | ¾" N.P.S. Plug | Brushed Aluminum |
| | **P-64-1** | 1" N.P.S. Plug | Polished Brass |
| | **P-64-1AL** | 1" N.P.S. Plug | Brushed Aluminum |
| | **P-64-1 1/4** | 1¼" N.P.S. Plug | Polished Brass |
| | **P-64-1 1/4AL** | 1¼" N.P.S. Plug | Brushed Aluminum |
| | **2" N.P.S. PLUG** | 2" N.P.S. Plug | Polished Brass |
| | **2" N.P.S. PLUG** | 2" N.P.S. Plug | Brushed Aluminum |
| | **P-64-1/2-2** | ½" & 2" N.P.S. Plug | Polished Brass |
| | **P-64-1/2-2AL** | ½" & 2" N.P.S. Plug | Brushed Aluminum |
| | **P-64-3/4-2** | ¾" & 2" N.P.S. Plug | Polished Brass |
| | **P-64-3/4-2AL** | ¾" & 2" N.P.S. Plug | Brushed Aluminum |
| | **P-64-2-5/8** | 2⅝" N.P.S. Plug | Polished Brass |
| | **P-64-2-5/8AL** | 2⅝" N.P.S. Plug | Brushed Aluminum |
| | **P-64-DU** | Two 1⅞" Dia. Plugs | Polished Brass |
| | **P-64-DUAL** | Two 1⅞" Dia. Plugs | Brushed Aluminum |
| | **P-64-D8** | Two Hinged Lift Lids | Polished Brass |
| P64P | **P-64-GFCI** | GFCI Hinged Lift Lid | Polished Brass |
| | **P-64P-BP** | Blank Plate | Non-Metallic |
| | **P-64P-URC** | Universal Cover | Non-Metallic |
| P90 2¾" Dia. | **P-90-1/2** | ½" N.P.S. Plug | Polished Brass |
| | **P-90-1/2AL** | ½" N.P.S. Plug | Brushed Aluminum |
| | **P-90-3/4** | ¾" N.P.S. Plug | Polished Brass |
| | **P-90-3/4AL** | ¾" N.P.S. Plug | Brushed Aluminum |
| | **P-90-1** | 1" N.P.S. Plug | Polished Brass |
| | **P-90-1AL** | 1" N.P.S. Plug | Brushed Aluminum |
| | **P-90-1 1/4** | 1¼" N.P.S. Plug | Polished Brass |
| | **P-90-1 1/4AL** | 1¼" N.P.S. Plug | Brushed Aluminum |
| | **P-90-2** | 2" Dia. Plug | Polished Brass |
| | **P-90-2AL** | 2" Dia. Plug | Brushed Aluminum |
| | **P-90-1/2-2** | ½" N.P.S. & 2" Dia. Plugs | Polished Brass |
| | **P-90-1/2-2AL** | ½" N.P.S. & 2" Dia. Plugs | Brushed Aluminum |
| | **P-90-3/4-2** | ¾" N.P.S. & 2" Dia. Plugs | Polished Brass |
| | **P-90-3/4-2AL** | ¾" N.P.S. & 2" Dia. Plugs | Brushed Aluminum |
| P68 6" Dia. | **P-68-SRC-GRY** | Carpet & Cover Plate for Single Receptacle | Non-Metallic Gray |
| | **P-68-SRC-BRN** | Carpet & Cover Plate for Single Receptacle | Non-Metallic Brown |
| | **P-68-SRC-BGE** | Carpet & Cover Plate for Single Receptacle | Non-Metallic Beige |
| | **P-68-FSC-GRY** | Carpet & Cover Plate with 1" N.P.S. Plug | Non-Metallic Gray |
| | **P-68-FSC-BRN** | Carpet & Cover Plate with 1" N.P.S. Plug | Non-Metallic Brown |
| | **P-68-FSC-BGE** | Carpet & Cover Plate with 1" N.P.S. Plug | Non-Metallic Beige |
| | **P-68-DRC-GRY** | Carpet & Cover Plate for Duplex Receptacle | Non-Metallic Gray |
| | **P-68-DRC-BRN** | Carpet & Cover Plate for Duplex Receptacle | Non-Metallic Brown |
| | **P-68-DRC-BGE** | Carpet & Cover Plate for Duplex Receptacle | Non-Metallic Beige |

# Overview

## Standard Specification — Flush Floor Boxes

### Cast Iron Formed Steel

Considerations when writing specifications:

Floor boxes are manufactured in various sizes, configurations and materials, The specifier should determine the most suitable product for his application. Refer to the T&B floor box catalog and select the appropriate paragraphs listed below. Plans should supply wiring capacity, conduit sizes, adjustability and floor finish. Construction Specifications Institute (CSI) references sections: 16132 Floor Boxes; 16141 Wiring Devices; Part 2-206 Floor Mounted Service Fittings; and 16741 Telephone Raceway Systems, Part 2-201 G Floor Boxes. Section 16132 Floor Boxes is preferable.

**PART 2: PRODUCTS**

**2.01 ACCEPTABLE MANUFACTURERS — FLOOR BOXES**

A. Shall be as manufactured by Thomas & Betts, Memphis, TN

**2.02 MATERIALS — FLOOR BOXES**

**2.02.1**

A. Shall be cast iron, painted inside and out with weatherproof paint intended for use on metal as indicated on the plans.

**2.02.1**

B. Shall be formed steel with a zinc plating at least .0005 in. thick on the outside and .00015 in. thick on the inside as indicated on the plans.

**2.02.2**

A. Construction shall be as required by UL 514A.

**2.02.2**

B. Carpet or tile frame shall be (brass, aluminum, polycarbonate, nylon).

**2.02.2**

C. Cover assembly shall protect against the ingress of water or foreign material with a gasket and shall be UL Listed as moptight.

**2.03 GENERAL DESIGN — FLOOR BOXES**

A. Shall deliver electric power from receptacles installed at the surface of the floor or from service fittings (Reference 16141 as shown on the plans).

B. 640/840 Series shall deliver power and telephone/data cable without interference from electric power delivery (see Section 16741).

C. Cubic inch capacity shall be as shown on the plans.

D. Boxes shall accept conduit sizes as required on the plans.

E. Shall be listed by Underwriters Laboratories.

**PART 3: EXECUTION**

**3.01 GENERAL**

A. Locate position for floor boxes and runs of conduit as shown on the plans.

**3.01 INSTALLATION**

A. Position floor boxes and conduit runs.

B. After concrete pour, pull wires and install devices according to manufacturers recommendations.

C. Activate in accordance with the National Electrical Code®.

D. Coordinate with floor covering contractor to complete installation.

## Standard Specification — Concealed Service

### Service Floor Outlet Multiple Service, Power and Communications

Considerations when writing specifications:

The 664 Concealed Service Floor Box provides both electric power and telephone (data) services from the same device for economy of space and cost, as well as affording a flush delivery (no above floor service fitting). For these reasons, your specification may reference this product in three sections: Floor Boxes, Wiring Devices and Telephone Raceway Systems. Construction Specifications Institute (CSI) references them in: 16132 Floor Boxes; 16141 Wiring Devices; Part 2 — 2.06 Floor Mounted Service Fittings; and 16741 Telephone Raceway Systems, Part 2 — 2.01 G Floor Boxes. Section 16132 Floor Boxes is preferable. For clarification include a reference in 16141, Part 2, 2.06 Floor Mounted Service Fittings as follows: Surface type service fittings are not acceptable.

**PART 2: PRODUCTS**

**2.01 ACCEPTABLE MANUFACTURERS — FLOOR BOXES, MULTIPLE SERVICE**

A. Shall be series 664 concealed service floor box as manufactured by Thomas & Betts.

**2.02 MATERIALS — FLOOR BOXES, MULTIPLE SERVICE.**

A. Shall be electrogalvanized, 14 gauge sheet steel. (Alternate A shall be cast iron).

B. Construction shall be as required by UL 514A.

C. Carpet frame shall be nylon UL Recognized Component QMFZ2.

D. Hinged outer cover shall be reinforced with a 5⁄32" steel plate.

**2.03 GENERAL DESIGN — FLOOR BOXES, MULTIPLE SERVICE.**

A. Shall deliver electric power from one or two duplex receptacles installed below the surface of the floor.

B. Shall deliver telephone or data cable without interference from the electric power delivery.

C. Shall protect delivery of both services by a hinged cover with a retractable opening and foam plastomer dust seal.

D. Hinged cover shall accept carpet or tile to match floor covering and be 180 degrees reversible.

E. Shall have 90 cubic inch total capacity with 24 cubic inch power chambers.

F. Shall accept conduit sizes up to 1¼ inches.

G. Shall afford 18 square inches of access with cover open.

H. Box shall be listed by Underwriters Laboratories.

I. When hinged cover is closed and no services in place, device shall have no obstructions above surface of floor.

**PART 3: EXECUTION**

**3.01 GENERAL**

A. Locate position for floor boxes and runs of conduit as shown on the plans.

**3.02 INSTALLATION**

A. Position floor boxes and conduit runs.

B. After concrete pour pull wires and install devices according to manufacturer's recommendations.

C. Activate in accordance with the National Electrical Code®.

D. Coordinate with floor covering contractor to complete installation.

## Standard Specification — Above-Floor Service

### Service Floor Outlet Multiple Service, Power and Communications

Considerations when writing specifications: The 664 Concealed Service Floor Box provides both electric power and telephone (data) services from the same device for economy of space and cost, as well as affording a flush delivery (no above floor service fitting). For these reasons, your specification may reference this product in three sections: Floor Boxes, Wiring Devices and Telephone Raceway Systems. Construction Specifications Institute (CSI) references them in: 16132 Floor Boxes; 16141 Wiring Devices; Part 2 — 2.06 Floor Mounted Service Fittings; and 16741 Telephone Raceway Systems, Part 2 — 2.01 G Floor Boxes. Section 16132 Floor Boxes is preferable. For clarification include a reference in 16141, Part 2, 2.06 Floor Mounted Service Fittings as follows: Surface type service fittings are not acceptable.

**PART 2: PRODUCTS**

**2.01 ACCEPTABLE MANUFACTURERS — FLOOR BOXES, MULTIPLE SERVICE**

A. Shall be series 664 concealed service floor box as manufactured by Thomas & Betts.

**2.02 MATERIALS — FLOOR BOXES, MULTIPLE SERVICE.**

A. Shall be electrogalvanized, 14 gauge sheet steel. (Alternate A shall be cast iron).

B. Construction shall be as required by UL 514A.

C. Carpet frame shall be nylon UL Recognized Component QMFZ2.

D. Hinged outer cover shall be reinforced with a 5⁄32" steel plate.

**2.03 GENERAL DESIGN — FLOOR BOXES, MULTIPLE SERVICE.**

A. Shall deliver electric power from one or two duplex receptacles installed below the surface of the floor.

B. Shall deliver telephone or data cable without interference from the electric power delivery.

C. Shall protect delivery of both services by a hinged cover with a retractable opening and foam plastomer dust seal.

D. Hinged cover shall accept carpet or tile to match floor covering and be 180 degrees reversible.

E. Shall have 90 cubic inch total capacity with 24 cubic inch power chambers.

F. Shall accept conduit sizes up to 1¼ inches.

G. Shall afford 18 square inches of access with cover open.

H. Box shall be listed by Underwriters Laboratories.

I. When hinged cover is closed and no services in place, device shall have no obstructions above surface of floor.

**PART 3: EXECUTION**

**3.01 GENERAL**

A. Locate position for floor boxes and runs of conduit as shown on the plans.

**3.02 INSTALLATION**

A. Position floor boxes and conduit runs.

B. After concrete pour pull wires and install devices according to manufacturer's recommendations.

C. Activate in accordance with the National Electrical Code®.

D. Coordinate with floor covering contractor to complete installation.

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# Recessed Service Floor Boxes

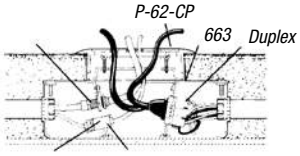


## 663-SC Floor Box

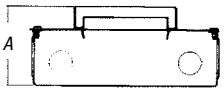
- Multiple service floor box that delivers power, communications and data from standard conduit with no exposed service fittings
- Result: Open office planning flexibility
- Ideal for workstations that require power, communications and data service
- Stamped steel, concrete-tight, semi-adjustable
- Electro-galvanized body and hardware
- Shipped complete with expendable cap to prevent ingress of concrete
- Blank- and duplex-face plates can be mounted at either end of the box
- Does not include duplex faceplate; faceplate is included with P-62-CP and P-60-3B cover plates
- Uses P-62 and P-60 Series covers*

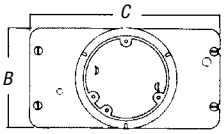


663-SC




Communications Connector




**Engineering Data for 663 Series Floor Box**

| CAT. NO. | DIMENSIONS (IN.) A | B | C | BEFORE POUR ADJ. | AFTER POUR ADJ. | MAXIMUM CAPACITY (CU. IN.) | CONDUIT KOS SIDES | BOTTOM |
|---|---|---|---|---|---|---|---|---|
| 663-SC | 3⅜ | 4¹¹⁄₁₆ | 8¹³⁄₁₆ | None | ¾" | 25 per gang<br>90 Total | (2) 1–1¼"<br>(4) ¾" | None |

| CAT. NO. | COVERS AND CARPET PLATES | WIRING DEVICE | STD. CTN. |
|---|---|---|---|
| 663-SC | P-62 Series<br>P-60* Series | Duplex and/or<br>Data/Voice | 4 |

**P-62-TAR is required when using P-60 series covers.*

***Caution:*** *To abandon 663 you must use a P-60 series brass cover plate.*

## Covers, Carpet Plates and Adjusting Rings for 663 Series

### P-60-3B

- Polished brass finish with non-metallic bronze insert
- Plastic insert has one ⅞" cutout and two ½" cutouts
- Furnished complete with sealing gasket, 8-32 x 7⁄16" brass screws and one P-60-Q device plate
- Split cover sections have access notch for screwdriver lift



*P-60-3B*

### P-62-CP

- High-strength polycarbonate
- Furnished with one ⅞" cutout and two ½" cutouts and P-60-Q device plate
- 5⅝" outside diameter



*P-62-CP*

### P-62-TAR

- Gives ¾" adjustment when mounted on 663 Floor Box
- Accepts P-60-3B,P-60-CP and all P-60 Series cover plates



*P-62-TAR*

### P-60-CP

- Polished-brass finish
- P-62-TAR is required when used on 663 floor box
- 5¹¹⁄₁₆" outside diameter



*P-60-CP*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| P-60-3B*[1] | Brass Cover Plate — Includes 1 P60Q | 4 |
| P-62-CP-AS*[2] | Polycarbonate Cover and Carpet Plate (charcoal) — Includes 1 P60Q | 4 |
| P-62-CP-BRN*[2] | Polycarbonate Cover and Carpet Plate (brown) — Includes 1 P60Q | 4 |
| P-62-CP-G*[2] | Polycarbonate Cover and Carpet Plate (gold) — Includes 1 P60Q | 4 |
| P-60-CP | Carpet Plate (polished brass) | 4 |
| P-60-CP-AL | Carpet Plate (aluminum) | 4 |
| P-62-TAR | Flange and Adjusting Ring for 663 Box (brass) | 4 |
| P-62-TAR-AL | Flange and Adjusting Ring for 663 Box (aluminum) | 4 |
| P-60-Q | Duplex Receptacle Plate for 663 Floor Box | 4 |
| P-60-QB | Blank Plate for 663 Floor Box | 4 |
| P-60-Q-GFCI | GFCI Plate for 663 Floor Box | 4 |

** For use as cover only when box is in service.*

*[1] When not in use, replace P-60-3B Grommet with 697 Plug.*

*[2] When not in use, the P-62-CP Series Cover should be replaced by P-60-CP, P-60 and P-62 TAR Series Covers.*

***Caution:*** *These covers are not to be used in high traffic areas.*

*For communications accessories, see* ***page A-140.***

## Recessed Service Floor Boxes

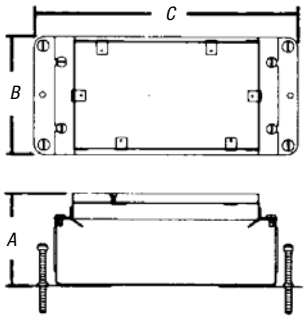
# Multiple-Service Floor Boxes for Power, Communications and Data: 664 Series

Multiple-service floor boxes deliver power, communications and data from standard conduit with no exposed service fittings. Result: Open office planning flexibility. Ideal for the modern office with workstations that have power, communications and data equipment. Power receptacles and low-voltage connections can be enclosed underfloor in either steel or cast-iron bodies. Galvanized 14-gauge steel boxes are provided with knockouts from ¾" to 1¼" (see engineering data). Cast-iron bodies have threaded openings for ¾" and 1" conduit.

- Two-compartment box is available in three configurations: stamped steel (664-SC), shallow (664-S) and cast iron (664-CI)
- Durable non-metallic covers include a steel reinforcement plate for added strength
- NEW! Metallic covers in solid brass and aluminum provide aesthetics and durability
- Four leveling screws enable quick leveling to desired concrete depth
- Cover flange self-levels with the finished floor for easy installation










664-SC



664-S



664-CI

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **664-SC** | Stamped-Steel Box which Accepts Two Plates, One Duplex Plate Provided | 4 |
| **664-CI** | Cast-Iron Box which Accepts Two Plates, One Duplex Plate Provided | 1 |
| **664-S** | Shallow Stamped-Steel Box which Accepts Two Plates, One Duplex Plate Provided | 4 |

***Note:*** *When ordering a 664 Series box, the cover must be ordered separately. See* ***page A-131****.*

*For communications accessories, see* ***page A-140****.*

### Engineering Data for 664 Series

| CAT. NO. | DIMENSIONS (IN.) A | B | C | BEFORE POUR ADJ. (IN.) | AFTER POUR ADJ. (IN.) | MAXIMUM CAPACITY (CU. IN.) | CONDUIT HUBS | CONDUIT KOS SIDES | BOTTOM | COVERS |
|---|---|---|---|---|---|---|---|---|---|---|
| **664-SC** | 3¾ | 4 11/16 | 10¼ | 2½ | ¾ | 24 per gang, 90 total | — | (4) 1"–1¼" (4) ¾" | None | 664-CST Series |
| **664-CI** | 3¾ | 5 3/32 | 9 15/16 | 2½ | ¾ | 24 per gang, 90 total | (4) ¾" (4) 1" | — | — | 664-CST Series |
| **664-S** | 2⅞ | 4 11/16 | 10¼ | 1½ | ¾ | 16.5 per gang, 70 total | — | (6) ¾" | None | 664-CST Series |

***CAUTION:*** *When using the center side KOs, Cat. No. 664-RP must be assembled to the box prior to installing the conduit.*



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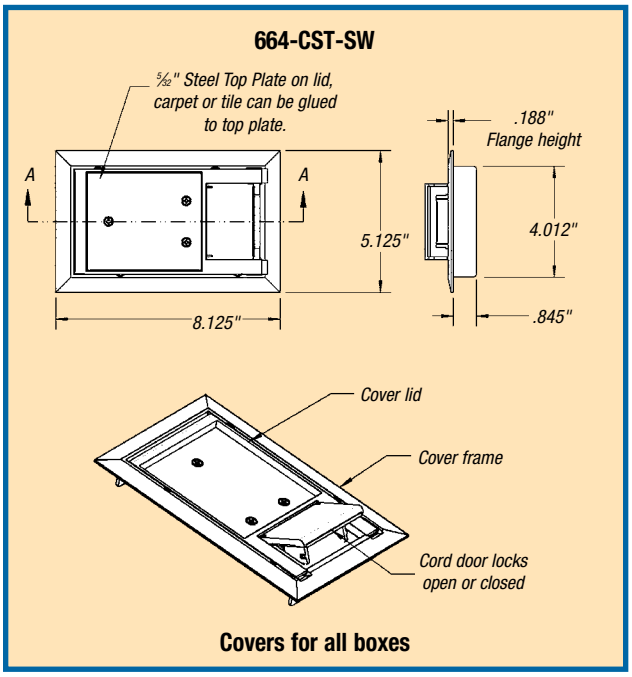
www.tnb.com

# Recessed Service Floor Boxes

NEW!



## Non-Metallic Covers for 664 Series Floor Boxes

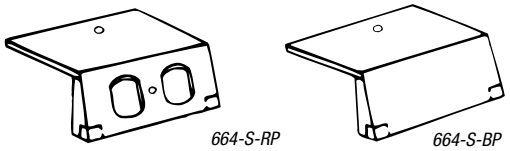



*MopTite® covers meet UL scrubwater exclusion requirements for carpet, tile and wood.*

| CAT. NO. | DESCRIPTION | LOAD RATING | STD. CTN. |
|---|---|---|---|
| **664-CST-SW-GRY** | Gray Cover | 1,500 lbs. | 1 |
| **664-CST-SW-BRN** | Brown Cover | 1,500 lbs. | 1 |
| **664-CST-SW-BGE** | Beige Cover | 1,500 lbs. | 1 |
| **664-CST-SW-BLK** | Black Cover | 1,500 lbs. | 1 |

*Material: Polycarbonate with 5/32" steel plate.*

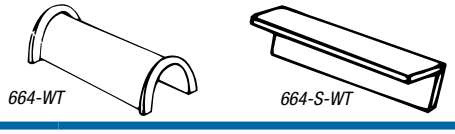
## Device Plates — 664-S




| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **664-S-RP** | Blank Plate for Use with 664-S Floor Box | 4 |
| **664-S-BP** | Blank Plate for Use with 664-S Floor Box | 4 |

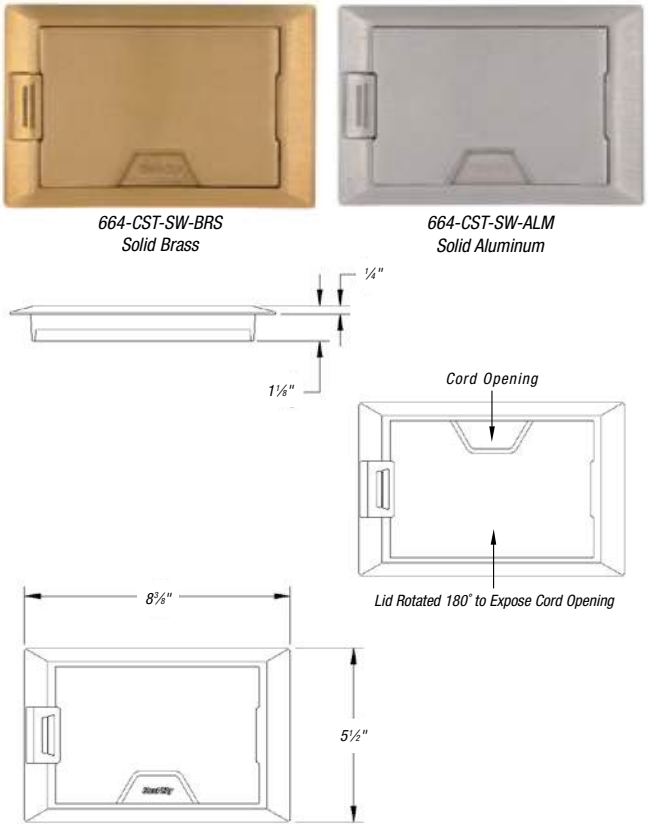
## Wire Tunnel for 664 Series

- Wire tunnel for protecting electrical connections between the two duplex receptacles when the box is used for power/power application




| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **664-WT** | For Use with 664 and 664-CI Floor Boxes | 4 |
| **664-S-WT** | For Use with 664-S Floor Box | 4 |

## Metallic Covers for 664 Series Floor Boxes

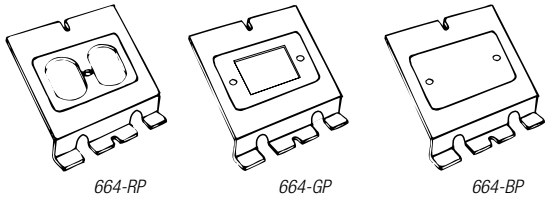



*MopTite® covers meet UL scrubwater exclusion requirements for carpet, tile and wood.*

| CAT. NO. | DESCRIPTION | LOAD RATING | STD. CTN. |
|---|---|---|---|
| **664-CST-SW-BRS** | Solid Brass Cover for 664 Series Floor Boxes | 2,250 lbs. | 1 |
| **664-CST-SW-ALM** | Solid Aluminum Cover for 664 Series Floor Boxes | 2,250 lbs. | 1 |

## Device Plates — 664-SC & 664-CI

- Duplex receptacle face plate for 664 Series floor box for additional power service
- Does not include duplex receptacle. Can be placed at either end of floor box



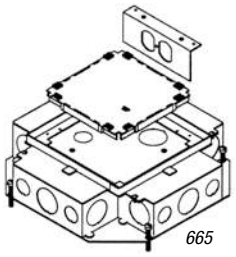

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **664-RP** | For Use with 664 and 664-CI Floor Boxes | 4 |
| **664-BP** | Blank Plate for Use with 664 & 664-CI Floor Boxes | 4 |
| **664-GP** | GFCI Receptacle Plate | 4 |

***CAUTION:*** *When using the center side KOs, all 664 plates must be assembled to the box prior to installing the conduit.*

## Recessed Service Floor Boxes

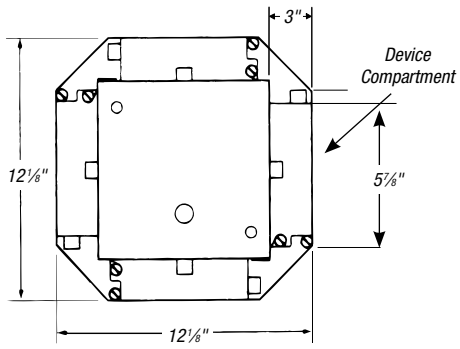
# 665 Series Floor Boxes: 665-SC



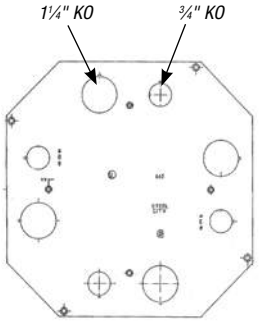





- Four (4) device compartments can accommodate any combination of devices. For example: (3) duplex power devices and (1) duplex telephone device, or (2) voice and data connectors and (1) GFCI device and (1) blank, etc.
- Overall height of 3½" allows for shallow pours when needed
- High-strength polycarbonate cover with a 5/32" steel plate assures structural integrity
- Metallic Covers also available in solid brass and aluminum
- Four-side feed-through allows installer to feed through power or data/comm service from any orientation
- Non-metallic wire tunnels aesthetically clean. Full-width tunnel provides maximum feed-through capacity; non-metallic material prevents conductor damage
- Total access area of 126 cu. in. allows for friendly installation of workstation cables
- Contains 28 knockouts (16–1¼" and 12¾" KOs) that provide increased flexibility when installed
- The 665 line is an extension of the industry-leading 664 Series; our concealed service line now allows the customer to install up to four device panels in one box
- Through the use of a unique non-metallic wire tunnel, the installer can easily partition the power, voice/data requirements
- This UL Listed, stamped-steel floor box can be installed with Thomas & Betts voice and data connector products
- Four 2½" levelling screws provided with all boxes
- Device panels ordered separately




**Top View**



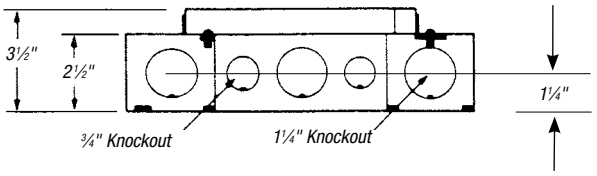

**Bottom Plate**

| CAT. NO. | DESCRIPTION | DEVICE COMPARTMENTS (IN.) LENGTH | WIDTH | HEIGHT | AREA | DEVICE ACCESS AREA | STD. CTN. |
|---|---|---|---|---|---|---|---|
| **665-SC** | Stamped Steel Box | 5¾ | 2¾ | 2½ | 40 cu. in. | 126 cu. in. | 1 |

*665-SC floor box does not include device plates or covers. Order separately (see **page A-135**).*

*Material: Pre-Galvanized Steel.*

*For communication accessories, see **page A-140**.*






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## Recessed Service Floor Boxes

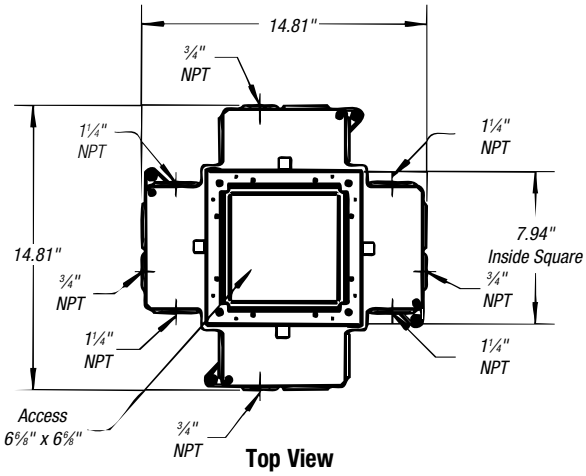
# Cast Iron for Slab-On-Grade Applications

# 665 Series Floor Boxes: 665-CI

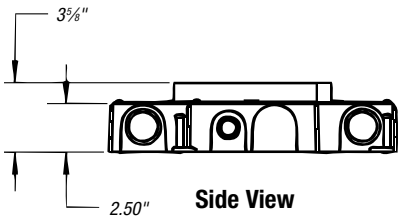
The new Steel City® 665 Cast Iron Floor Box provides a high-capacity power and data solution for ground-floor installations. This 4-gang recessed-service floor box is ideal for slab-on-grade applications. Removable voltage dividers enable users to customize wiring configurations by feeding two or more adjacent compartments with a single conduit. Aesthetic covers feature a recess to accept floor covering to match the surrounding floor.

- 4-gang, recessed service for a high-capacity aesthetic floor-box solution
- Removable voltage dividers between compartments enable a single conduit to feed two or more adjacent compartments
- Heavy-duty, non-metallic covers with steel-reinforcement plates are available in a wide variety of colors to match any decor (black, gray, brown and beige)
- Metallic Covers
- Separate cord door in the cover latches firmly in the open position to prevent damage to cables
- MopTite® covers meet UL scrubwater exclusion requirements for carpet, tile and wood
- Largest cubic-inch capacity of any cast iron recessed 4-gang floor box
- Inline 1¼" hubs allow high-capacity straight runs for communicator wiring
- Custom device panels and hub sizes are available — contact technical service about these offerings





Top View



Side View

### Specifications

- Material: Box — Cast Iron
  Cover — Polycarbonate with steel reinforcement plate
- Listing: UL and CSA Listed

| CAT. NO. | DESCRIPTION | DEVICE COMPARTMENTS (IN.) LENGTH | WIDTH | HEIGHT | AREA | DEVICE ACCESS AREA | STD. CTN. |
|---|---|---|---|---|---|---|---|
| **665-CI** | Cast Iron Box | 5¾ | 3½ | 2¼ | 45 cu. in. | 126 cu. in. | 1 |

*665-CI floor box does not include device plates or cover. Order separately. (See **page A-135**)*
*Material: Pre-Galvanized Steel.*

*For communications accessories, see **page A-140**.*

## Recessed Service Floor Boxes

# 2" KOs for Audio Visual Applications

NEW!

# 665 Series Floor Boxes: 665-AV2

- 2" KOs enable pre-terminated AV cables and connectors to be pulled directly through the conduit
- Accepts standard 665 Series covers and device plates for power, voice, data and audio visual connections
- **NEW!** Rectangular adapters allow voice, data and AV connectors to be mounted in a standard GFCI device plate
- **NEW!** Keystone style voice, data and AV connectors meet a wide range of low-voltage applications. All connectors are recessed for flush mounting in floor box applications
- **NEW!** Device plates are available that accept Extron® MAAP plates to accommodate any AV requirements (Extron® MAAP plates purchased from an authorized Extron distributor)
- **NEW!** Metallic covers provide a durable, aesthetic installation, including industry-exclusive solid brass covers (not painted or plated), aluminum also available



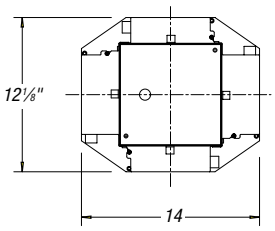


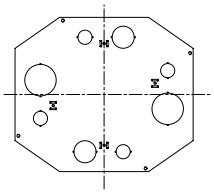
*Rectangular adapters and Keystone Inserts for GFCI Device Plates (see **page A-140**)*

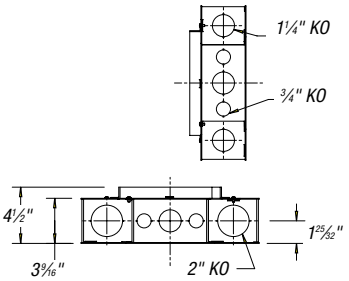
| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **665-AV2** | 4-Compartment Recessed Service Floor Box with 2" KOs for AV Applications | 1 |

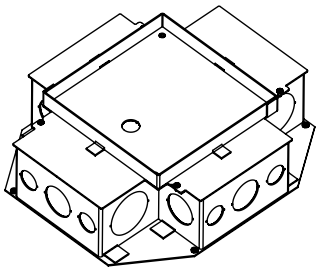
*665-AV2 floor box does not include device plates or cover. Order separately. (See **page A-135**)*
*Extron® is a registered trademark of RGB Systems, Inc.*
*For communication accessories, see **page A-140***

## Engineering Information





### 665-AV2 Floor Box Engineering Data

| CAT. NO. | BEFORE POUR ADJ. (IN.) | AFTER POUR ADJ. (IN.) | LENGTH (IN.) | COMPARTMENT SIZE & CAPACITY (QTY = 4) WIDTH (IN.) | HEIGHT (IN.) | VOLUME | CONDUIT KOS (IN.) SIDES | BOTTOM |
|---|---|---|---|---|---|---|---|---|
| **665-AV2** | 2½ | ¾ | (2) 5¾ | 3¾ | 3⅜ | 72 cu. in. | (4) 2 | (2) 2 |
| | | | (2) 5¾ | 2¾ | 3⅜ | 52 cu. in. | (8) 1¼ | (2) 1¼ |
| | | | | | | | (8) ¾ | (4) ¾ |



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# Recessed Service Floor Boxes



## Metallic Covers for 665 Series Floor Boxes

NEW!

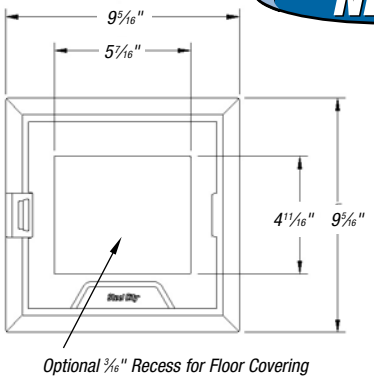


665-CST-SW-BRS
Solid Brass

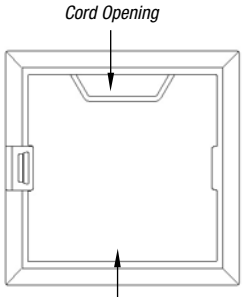


665-CST-SWR-ALM
Solid Aluminum with Recess for Floor Covering




Optional 3⁄16" Recess for Floor Covering

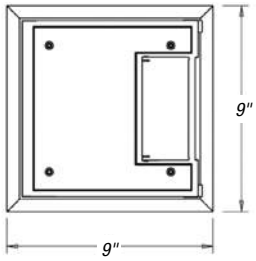


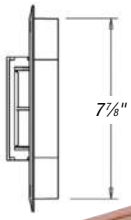

Lid Rotated 180° to Expose Cord Opening

| CAT. NO. | DESCRIPTION | LOAD RATING (LBS.) | STD. CTN. |
|---|---|---|---|
| **665-CST-SW-BRS** | Solid Brass Cover for 665 Series Floor Boxes | 1,500 | 1 |
| **665-CST-SWR-BRS** | Solid Brass Cover with Recess for Floor Covering, 665 Series | 1,500 | 1 |
| **665-CST-SW-ALM** | Solid Aluminum Cover for 665 Series Floor Boxes | 1,500 | 1 |
| **665-CST-SWR-ALM** | Solid Aluminum Cover with Recess for Floor Covering, 665 Series | 1,500 | 1 |

## Non-Metallic Covers for 665 Series Floor Boxes

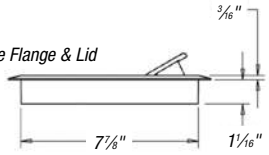
5⁄32" Steel Top Plate on Lid. Carpet or Tile can be Glued to Top Plate.












665-CST-SW-BLK
Black Non-Metallic Cover

| CAT. NO. | DESCRIPTION | LOAD RATING | STD. CTN. |
|---|---|---|---|
| **665-CST-SW-BLK** | Non-Metallic Cover for 665 Series Floor Boxes, Black | 750 lbs. | 1 |
| **665-CST-SW-GRY** | Non-Metallic Cover for 665 Series Floor Boxes, Gray | 750 lbs. | 1 |
| **665-CST-SW-BGE** | Non-Metallic Cover for 665 Series Floor Boxes, Beige | 750 lbs. | 1 |
| **665-CST-SW-BRN** | Non-Metallic Cover for 665 Series Floor Boxes, Brown | 750 lbs. | 1 |

*Material: Polycarbonate with 5⁄32" steel plate.*
*Furnished with (4) #8-32 x 5⁄8" mounting screws.*
*Contact T&B Technical Service for Color Chip samples.*

## Device Plates and Accessories for 665 Series Floor Boxes



665-RP
Duplex Plate



665-GP
GFCI Plate



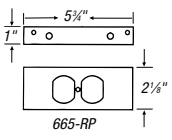
665-BP
Blank Plate



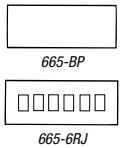
665-6RJ
Data Plate for 6 Keystone Jacks

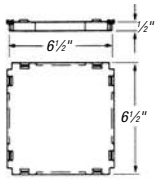
665-WT
Wire Tunnel feeds multiple compartments from a single conduit (one included with each 665-AV2 and 665-SC)



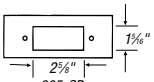



665-RP

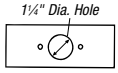



665-WT




665-GP




665-STEL

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **665-RP** | Duplex Plate for 665 Series Floor Boxes | 4 |
| **665-GP** | GFCI Plate for 665 Series Floor Boxes | 4 |
| **665-BP** | Blank Plate for 665 Series Floor Boxes | 4 |
| **665-6RJ** | Data Plate for 665 Series Floor Boxes, Accepts 6 Keystone Jacks | 4 |
| **665-STEL** | Telephone Data Plate for 665 Series Floor Boxes | 4 |
| **665-WT** | Replacement Wire Tunnel for 665-SC & 665-AV2 Floor Boxes | 4 |

*Each box requires (4) device plates. Material: Pre-galvanized steel.*

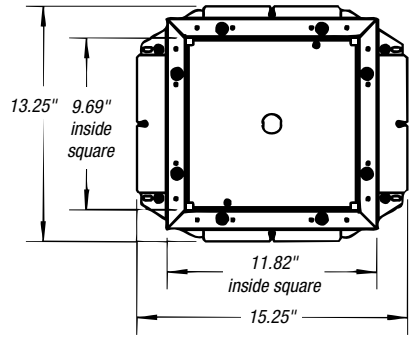
## Recessed Service Floor Boxes

# 668-S Ultra-Shallow Floor Box

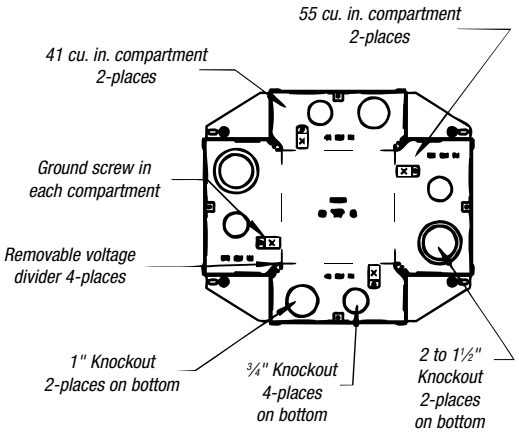


The new 668-S Ultra-Shallow Floor Box from Thomas & Betts provides a high-capacity power and data solution for shallow concrete floors. The low-profile 4-gang box is constructed of galvanized stamped steel. Removable voltage dividers enable users to customize wiring configurations by feeding two or more adjacent compartments with a single conduit. Metallic covers with durable powder-coat finish are designed to match any decor, while optional trim rings enable covers to be mounted completely flush with the floor in tile or wood floor applications.

- Low profile (2½" height) for shallow concrete pours
- 4-gang, recessed service for a high-capacity, aesthetic floor box solution
- Stamped-steel box construction
- Removable voltage dividers between compartments enable a single conduit to feed two or more adjacent compartments
- Metallic covers feature durable powder-coat paint to match any decor (black, gray, brown and beige)
- Heavy-duty cord door in the cover latches firmly in the open position to prevent damage to cables
- Optional tile trim enables flush mounting for tile and wood floor applications
- MopTite® covers meet UL scrubwater exclusion requirements for carpet, tile and wood
- Largest cubic-inch capacity of any shallow, recessed 4-gang floor box
- Additional KOs (up to 2") on the bottom of the box enable installation flexibility
- Custom device panels are available — contact technical service about these offerings

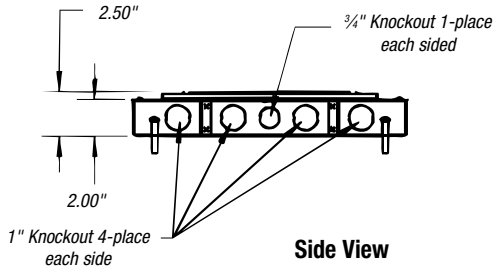



**Top View**




**Top View — Compartment Layout**

***Note**: Shown with Top Plate Removed*




**Side View**

## Specifications

- Material: Box — Galvanized Steel; Cover — Die-Cast Zinc
- Listing: UL and CSA Listed

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **668-S** | Shallow, Concealed Service Floor Box | 1 |

*For covers and device plates, see **page A-137**.*

*For communications accessories, see **page A-140**.*



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# Recessed Service Floor Boxes



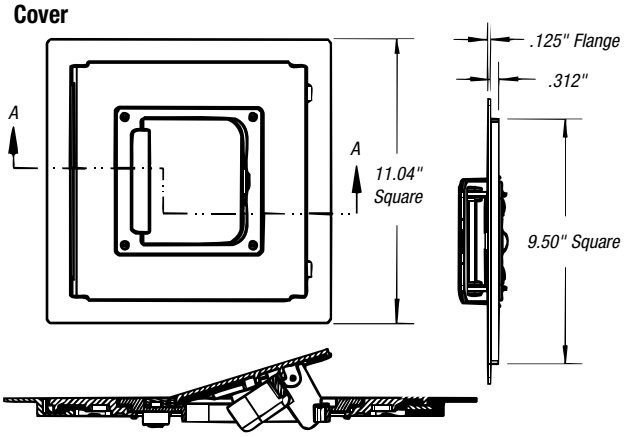
## Covers and Tile Trims for 668-S Floor Box

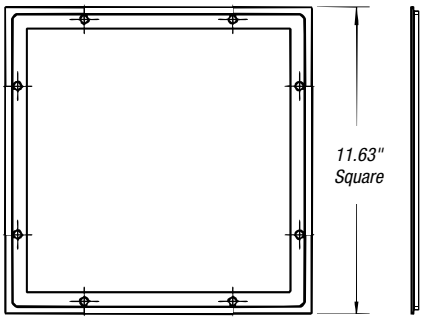


Standard mounting configuration: Flange on cover overlaps carpet, tile or wood floors.



Flush mounting configuration: Optional trim ring allows cover to be mounted flush with tile or wood floors.




| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **668-CST-ALM** | 668-S Metal Cover — Aluminum Powder Coat | 1 |
| **668-CST-BRS** | 668-S Metal Cover — Brass Powder Coat | 1 |
| **668-CST-BLK** | 668-S Metal Cover — Black Powder Coat | 1 |
| **668-CST-BRN** | 668-S Metal Cover — Brown Powder Coat | 1 |
| **668- CST-BGE** | 668-S Metal Cover — Beige Powder Coat | 1 |
| **668-TRIM-ALM** | 668-S Trim Ring — Aluminum Powder Coat | 4 |
| **668-TRIM-BRS** | 668-S Trim Ring — Brass Powder Coat | 4 |
| **668-TRIM-BLK** | 668-S Trim Ring — Black Powder Coat | 4 |
| **668-TRIM-BRN** | 668-S Trim Ring — Brown Powder Coat | 4 |
| **668-TRIM-BGE** | 668-S Trim Ring — Beige Powder Coat | 4 |

*Contact Technical Service for color samples.*

## Device Plates for 668-S Floor Box

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **668-S-1RP** | 668-S Single-Gang Duplex Plate | 1 |
| **668-S-1G** | 668-S Single-Gang GFCI Plate | 1 |
| **668-S-BP** | 668-S Blank Plate | 1 |

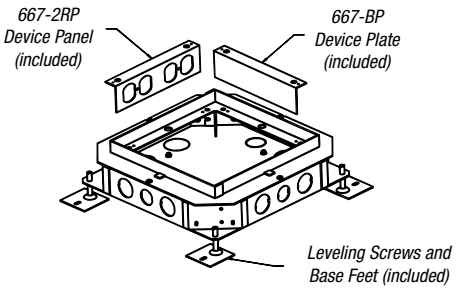
| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **668-S-6RJ** | 668-S Data Plate — 6 Keystone Jacks | 1 |
| **668-S-6PAN** | 668-S Data Plate — 6 Panduit® Jacks | 1 |
| **668-S-6ORT** | 668-S Data Plate — 6 Ortonics® Jacks | 4 |
| **668-S-6AVA** | 668-S Data Plate — 6 Avaya® Jacks | 4 |

## Recessed Service Floor Boxes

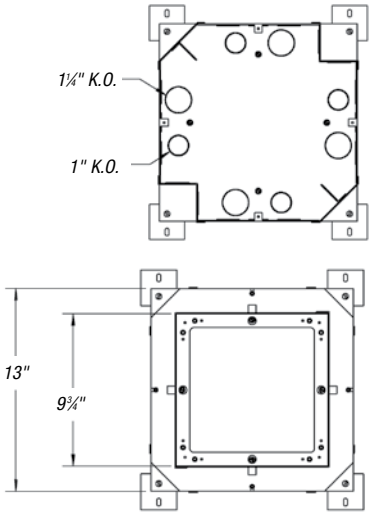
# 667-SC Floor Box



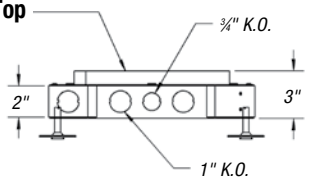
- Largest capacity concealed-service floor box on the market
  - Four "double-gangs" allow for two duplex receptacles per gang, for a total of eight receptacles per box
  - Each gang has 40 cu. in. of capacity
  - Box interior has 128 cu. in. of capacity
- Standard box configuration is for up to eight power and/or low-voltage devices
  - Box design allows for feed-through cabling for power and low-voltage conductors
- Shallow design
  - 3" overall height is ideal for renovations and upper level floor installations
- Full line of low-profile covers
  - Utilizes same quality cover as AFM-8 Access Floor Module
  - High-strength polycarbonate
  - Steel reinforced for added durability
  - Two retractable cable exit ports
  - 64 sq. in. opening provides easy access to device panels
  - ¼" recess for carpet/tile insert
  - Available in gray, black, brown and beige
- Box is manufactured with (1) ¾", (3) 1" and (1) 1¼" KOs per gang
  - This includes a 1" and 1¼" KO located in the bottom
- Full complement of device panels
  - Device panels available with one or two duplex openings, one or two GFI openings, six standard "keystone" with Omni 110 bezels and blanks
- Provided with leveling legs and base feet
  - Base feet can be attached to form preventing box movement during concrete pour
  - Leveling legs provide up to 1½" pre-pour adjustment
- Manufactured from 14-gauge pre-galvanized steel
  - Quality construction provides added durability and rust protection
- MopTite® covers meet UL® scrubwater exclusion requirements for carpet, tile and wood




**Floor Box Bottom**




**Floor Box Top**




| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **667-SC** | Four-Gang Recessed Floor Box | 1 |

*Supplied with (1) 667-2RP for 2 duplex receptacles and (1) 667-BP Blank Plate. For covers and other device plates, see* ***page A-139****.*

*For communications accessories, see* ***page A-140****.*



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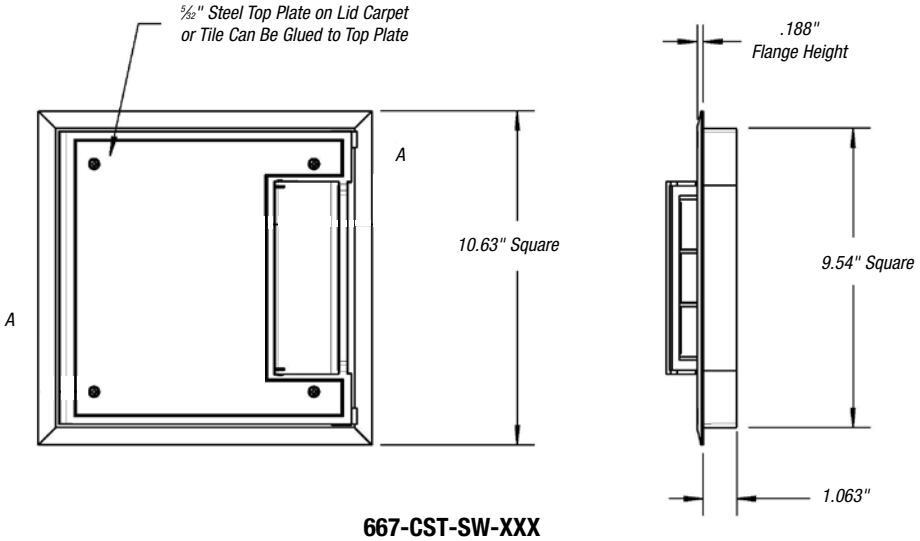
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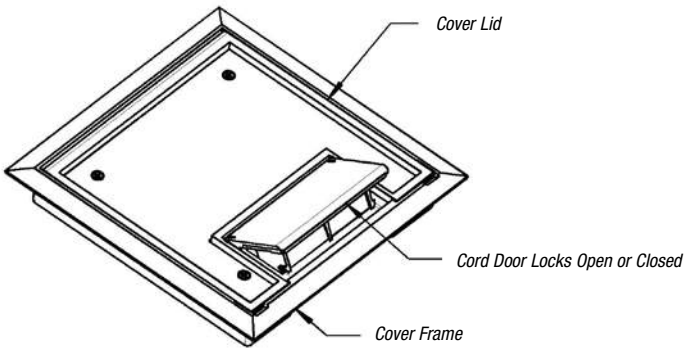
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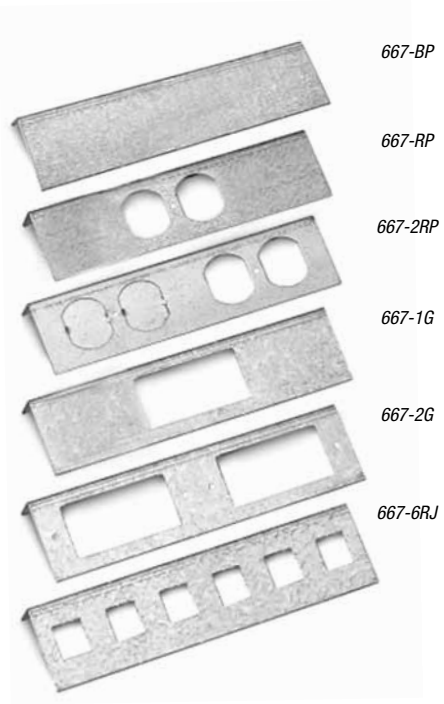
# Covers and Device Plates for 667-SC






**667-CST-SW-XXX**




| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **667-BP*** | Blank Device Panel | 4 |
| **667-RP** | Single Duplex Receptacle Plate | 4 |
| **667-2RP*** | Device Panel for 2 Duplex Receptacles with Duplex KOs | 4 |
| **667-1G** | Device Panel for 1 GFCI Receptacle | 4 |
| **667-2G** | Device Panel for 2 GFCI Receptacles | 4 |
| **667-6RJ**** | Device Panel for 6 Keystone Data Jacks | 4 |
| **667-CST-SW-GRY** | Cover and Flange — Gray | 4 |
| **667-CST-SW-BLK** | Cover and Flange — Black | 4 |
| **667-CST-SW-BRN** | Cover and Flange — Brown | 4 |
| **667-CST-SW-BGE** | Cover and Flange — Beige | 4 |

***For data connectors and adapters, see **page A-140**.*

*New MopTite® Covers exceed UL® scrubwater exclusion requirements.*

## Recessed Service Floor Boxes

# Communication Accessories

## Rectangular/Duplex Adapters


OPODEC1-WH


OPODEC2-WH


OPODEC3-WH


OPODEC4-WH


OPODEC6-WH


OPOD4-WH


OPODEC-XLRF-WH


OPODEC XLRM-WH


OPODEC VGA-WH

### Rectangular/Duplex Adapters for Use with Standard Floor Box Device Plates

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **OPODEC1-WH** | Rectangular Adapters for GFCI Device Plate, 1-Port, Keystone, White | 5 |
| **OPODEC2-WH** | Rectangular Adapters for GFCI Device Plate, 2-Port, Keystone, White | 5 |
| **OPODEC3-WH** | Rectangular Adapters for GFCI Device Plate, 3-Port, Keystone, White | 5 |
| **OPODEC4-WH** | Rectangular Adapters for GFCI Device Plate, 4-Port, Keystone, White | 5 |
| **OPODEC6-WH** | Rectangular Adapters for GFCI Device Plate, 6-Port, Keystone, White | 5 |
| **OPOD4-WH** | Duplex Adapter, 4-Port, Keystone, White | 10 |
| **OPODEC-XLRF-WH** | Rectangular Adapters, Female XLR Microphone Jack, Solder Leads, White | 5 |
| **OPODEC-XLRM-WH** | Rectangular Adapters, Male XLR Microphone Jack, Solder Leads, White | 5 |
| **OPODEC-VGA-WH** | Rectangular Adapters, VGA Connector, Female-to-Female, White | 5 |

## Keystone Inserts


OPJDU5EL-WH


OPJU6L-WH


OPJV6C-WH


OPA35-WH*


OPARCAW*


OPARCAR*


OPARCAY*


OPAFR*


OPAS-WH*


OPAHDMI-WH


OPAB-WH

### Keystone Inserts for Data, Voice and Audio Visual Applications

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **OPJDU5EL-WH** | CAT5e Data Jack, Keystone, White | 5 |
| **OPJDU6L-WH** | CAT6 Data Jack, Keystone, White | 5 |
| **OPJV6CL-WH** | Phone Jack, 6-Conductor, Keystone, White | 5 |
| **OPA35-WH*** | 3.5mm Stereo Connector, Recessed, Keystone, Female-to-Female, White | 5 |
| **OPARCAW*** | RCA Connector — White, Recessed, Keystone, Female-to-Female | 5 |
| **OPARCAR*** | RCA Connector — Red, Recessed, Keystone, Female-to-Female | 5 |
| **OPARCAY*** | RCA Connector — Yellow, Recessed, Keystone, Female-to-Female | 5 |
| **OPAFR*** | F-Connector, Recessed, Keystone, 1 GHz, Female-to-Female, Red | 5 |
| **OPAS-WH** | S-Video Connector, 4-Pin, Recessed, Keystone, Female-to-Female, White | 5 |
| **OPAHDMI-WH** | HDMI Connector, Recessed, Keystone, Female-to-Female, White | 5 |
| **OPAB-WH** | Blank Insert, Keystone, White | 25 |

***Special Installation Note:** When using these AV connectors with OPODEC4-WH & OPODEC6-WH Rectangular Adapters, only a Blank Insert (OPABL-WH) can be used in the same horizontal row. Trim the ears off one side of the Blank Insert and install prior to installing the AV connector in the row.*



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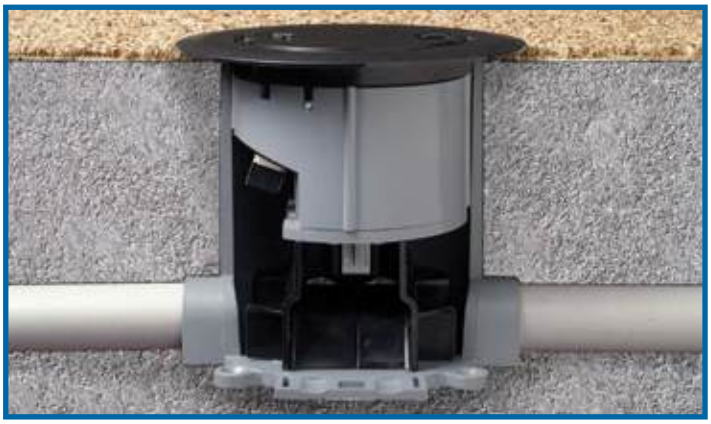
## Recessed Service Floor Boxes

# 68R Recessed Covers

NEW!

Plug in power and communication cords, and then close the lid to hide unsightly plugs and receptacles below the floor!

- Unique cover provides aesthetic recessed service with cost-effective box options for concrete, wood sub-floor and raised-floor applications
- Lid can be rotated to expose a small opening for cords, enabling the lid to close flush with the floor while in use
- Cover accepts one duplex or GFCI receptacle — no special device plates required (receptacle purchased separately)
- Cover accepts up to two communications jacks — includes one 2-port keystone data plate and one blank data plate for custom cut-outs or power-only applications (communications jacks purchased separately)
- Non-metallic covers are available in black, gray, beige and brown. Black covers are available with an optional brass or aluminum flange
- Two set screws lock the cover in place — no gluing required



*Concrete applications*



*Wood sub-floor/raised floor applications*



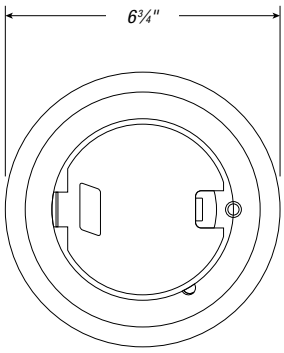
*Use a Steel City® Round PVC Floor Box, catalog number 68-P (purchased separately)* *See* ***page A-150***

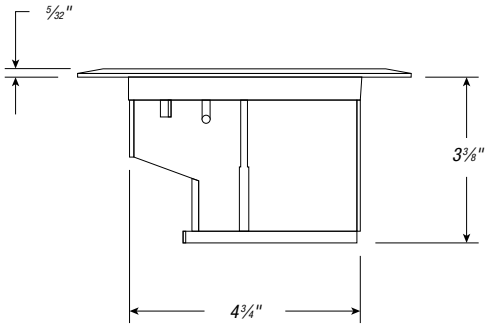


*Use an appropriate Steel City® 3" x 2" Metal Switch Box with mounting ears (purchased separately).* *See* ***pages A-19–22***



*Lid closes flush with the floor, even with cords plugged in.*




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## Recessed Service Floor Boxes

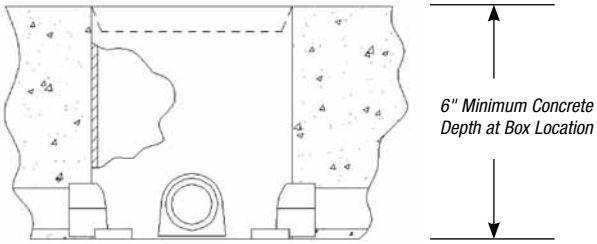
# 68R Recessed Covers (continued)

**Cover kit includes:**

- Cover assembly
- Receptacle mounting plate
- Duplex receptacle insert
- 2-port keystone data plate
- Blank data plate
- Voltage divider



**Technical Information**






*Power and Communications*

**Important Application Note:**

When using the 68R Recessed Cover with the 68-P floor box for concrete applications, the entire box depth (6") is required. Prior to concrete pour, level the top of the box with the screed line of the concrete.

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **68R-CST-BLK** | Non-Metallic Recessed Floor Box Cover Kit, Black | 4 |
| **68R-CST-GRY** | Non-Metallic Recessed Floor Box Cover Kit, Gray | 4 |
| **68R-CST-BGE** | Non-Metallic Recessed Floor Box Cover Kit, Beige | 4 |
| **68R-CST-BRN** | Non-Metallic Recessed Floor Box Cover Kit, Brown | 4 |
| **68R-CST-BRS** | Non-Metallic Recessed Floor Box Cover Kit, Black with Brass Flange | 4 |
| **68R-CST-ALM** | Non-Metallic Recessed Floor Box Cover Kit, Black with Aluminum Flange | 4 |
| **68-P** | Round PVC Floor Box for Concrete Applications | 8 |
| **CXWOW** | 3" x 2" Metal Switch Box, 3½" Deep, for Non-Metallic Sheathed Cable, Wood Subfloors | 25 |
| **CY 1/2** | 3" x 2" Metal Switch Box, 3½" Deep, ½" KOs | 25 |



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## Flush Service Floor Boxes

# Innovative 3-Gang Round Floor Box for Power, Data and AV.

## Round Floor Boxes for Power and Communications: 68-HP Series

NEW!

### Unmatched **Flexibility** to configure any combination of power and communications devices

- Accepts standard devices from any manufacturer, including duplex, GFCI, locking, hospital grade or isolated ground receptacles
- Accommodates a wide variety of multi-media devices through the use of rectangular adapters

### Combines the **Capacity** of a 3-gang box with the **Affordability** of a round non-metallic floor box

- 6" diameter round non-metallic floor box — the largest in the industry
- Large inline hubs for power and data wiring: 1" for power, 1½" for data





### No leveling, gluing or aligning for an **Easy Installation**

- No wasted time leveling the box before the concrete is poured — simply cut the box at the appropriate height after the pour
- No gluing — stainless steel retention barbs secure the mounting frame to the box
- Round design — no need to align the box with walls during installation



*Stainless Steel Barbs*

### Easy-to-Use Covers Made of **Durable** solid brass and aluminum

- Stands up to heavy carts, cleaning equipment, and general floor traffic
- Convenient slide latch provides tool-less access to devices
- Lid lies flat while in use to minimize obstructions above floor level






*Slide Latch for Tool-less Access*

### Furniture-Feed and Cast Iron options for a **Comprehensive** floor box solution

- Dual-voltage furniture-feed covers transition power and communications wiring from the floor into modular furniture
- Cast iron box with a non-metallic collar for slab-on-grade or metallic conduit applications



*1" Hub for Power, 1½" Hub for Data*



# Flush Service Floor Boxes

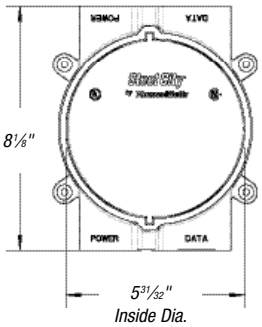
## 68-HP Floor Boxes *(continued)*

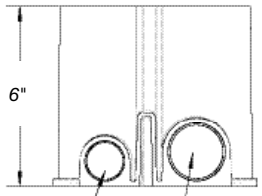


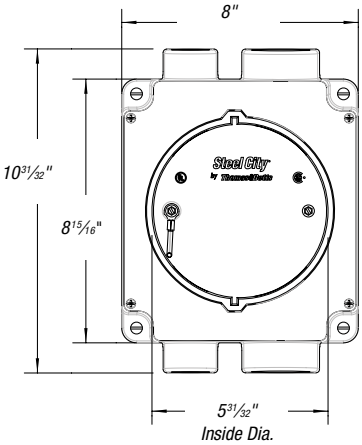
***68-HP***
*6" Round Non-Metallic Floor Box*

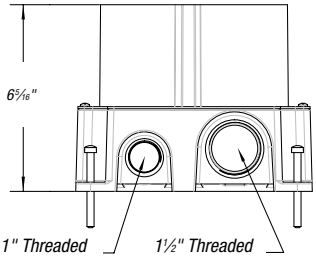


***68-HP-CI***
*Cast Iron Floor Box with 6" Round Non-Metallic Collar*



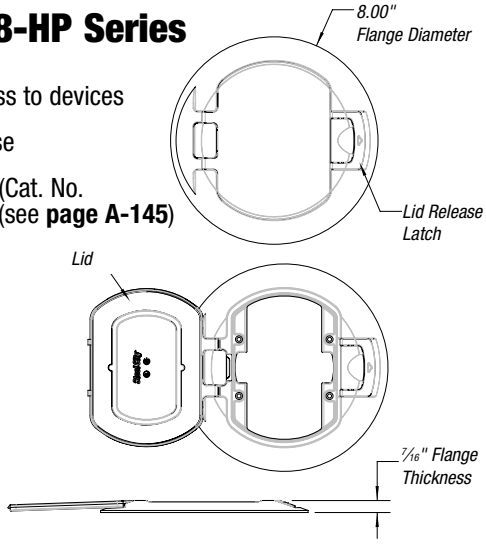




| CAT. NO. | DESCRIPTION | MINIMUM CONCRETE DEPTH | | STANDARD PACK QTY. |
|---|---|---|---|---|
| | | FLUSH | FURNITURE FEED | |
| **68-HP** | 6" Round Non-Metallic Floor Box | 4" | 3½" | 4 |
| **68-HP-CI** | Cast Iron Floor Box with 6" Round Non-Metallic Collar | 4½" | 4" | 1 |

## Flush Covers for 68-HP Series

- Slide latch for tool-less access to devices
- Lid lies flat when box is in use
- Requires Flush Mounting Kit (Cat. No. 68-HP-FMK) to mount cover (see **page A-145**)








***68-HP-FC-ALM***
*Solid brass cover with brushed finish*



*Pull slide latch to release lid*

| CAT. NO. | DESCRIPTION | STD. PACK QTY. |
|---|---|---|
| **68-HP-FC-ALM** | Flush Cover — Solid Aluminum with Brushed Finish, 1,000 lb. Load Rating | 4 |
| **68-HP-FC-BRS** | Flush Cover — Solid Brass with Brushed Finish, 1,500 lb. Load Rating | 4 |
| **68-HP-FC-BLK** | Flush Cover — Solid Aluminum with Black Powder-Coated Finish, 1,000 lb. Load Rating | 4 |



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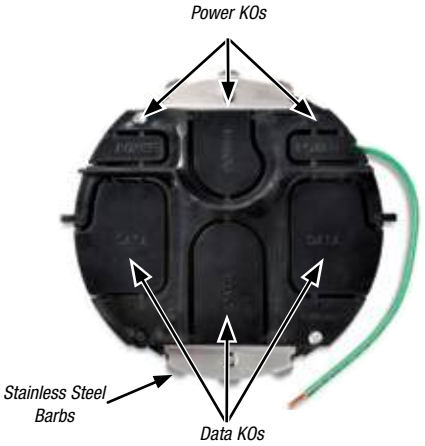
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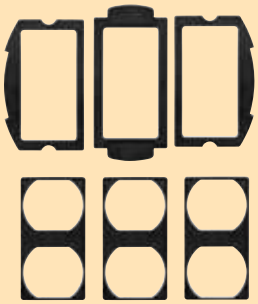
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# Flush Mounting Kit and Accessories for 68-HP Series

- Flush Mounting Kit required in order to mount devices and covers to the 68-HP Series floor box
- Stainless steel barbs — no gluing required
- Includes (3) compartments for standard devices
- Voltage dividers allow any combination of power and communications devices
- Each compartment includes (1) knockout for power and (1) knockout for data for access to either power or communications wiring





68-HP-FMK

**Kit Includes:**

- Mounting Frame
- Voltage Divider
- (3) Device Plates
  - (1) Center Plate: GFCI/Rectangular
  - (2) Side Plates: Rectangular
- (3) Duplex Inserts



Divider

68-HP-FMK
Flush Mounting Kit

## Optional Accessories

### Device Plates



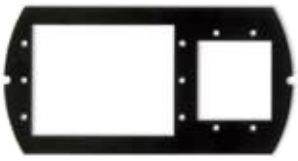
68-HP-DPC-GFCI | 68-HP-DPS-DEC | 68-HP-DPC-R | 68-HP-DPC-2MAAP | 68-HP-DPS-2MAAP

### Regular Inserts



68-HP-BI | 68-HP-DI | OPODEC6-WH**

### Extron® AV Plate



68-HP-DPAV-EXT
(Low Voltage Only)

| CAT. NO. | DESCRIPTION | STD. PACK QTY. |
|---|---|---|
| **68-HP-FMK** | Mounting Kit for Flush Covers | 4 |
| **68-HP-DPC-GFCI** | Center Device Plate — GFCI/Rectangular Receptacle | 10 |
| **68-HP-DPS-DEC** | Side Device Plate — Rectangular Receptacle | 10 |
| **68-HP-DPC-R** | Center Device Plate — Single Round Receptacle, 1⅝" Opening | 10 |
| **68-HP-DPC-2MAAP** | Center Device Plate — 2 Extron® MAAP Plates* | 10 |
| **68-HP-DPS-2MAAP** | Side Device Plate — 2 Extron® MAAP Plates* | 10 |
| **68-HP-BI** | Rectangular Insert — Blank (for unused compartments) | 10 |
| **68-HP-DI** | Rectangular Insert — Duplex Receptacle | 10 |
| **OPODEC6-WH** | Rectangular Adapter for GFCI/Rectangular Device Plate — 6-Port Data, Keystone, White** | 5 |
| **68-HP-DPAV-EXT** | Extron® AV Plate — 3 AAP Plates, 2 MAAP Plates* | 1 |

** Extron® MAAP Plates purchased from an authorized Extron® distributor. Extron® is a registered trademark of RGB Systems, Incorporated.*
*** Additional rectangular adapters available for low voltage applications — see Communications Accessories on* ***page A-140.***

## Flush Service Floor Boxes

# Furniture Feed Covers and Mounting Kit for 68-HP Series

- Dual-voltage covers for feeding power and communications wiring to modular furniture
- Furniture Feed Mounting Kit required to mount covers to 68-HP Series floor box



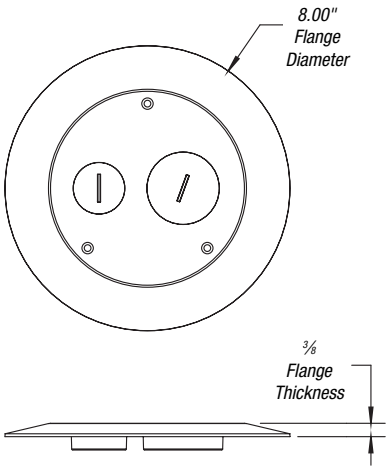
***68-HP-FFC-ALM***
*Solid brass cover with brushed finish*

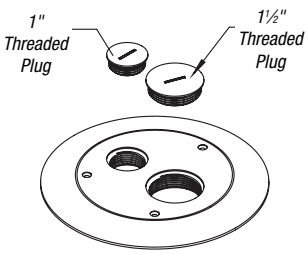


***68-HP-FFC-BRS***
*Aluminum cover with brushed finish*



***68-HP-FFC-BLK***
*Aluminum cover with powder-coated black finish*






***68-HP-FFMK***
*Furniture Feed Mounting Kit*

| CAT. NO. | DESCRIPTION | STANDARD PACK QTY. |
|---|---|---|
| **68-HP-FFC-ALM** | Furniture Feed Cover — Solid Aluminum with Brushed Finish | 4 |
| **68-HP-FFC-BRS** | Furniture Feed Cover — Solid Brass with Brushed Finish | 4 |
| **68-HP-FFC-BLK** | Furniture Feed Cover — Solid Aluminum with Black Powder-Coated Finish | 4 |
| **68-HP-FFMK** | Mounting Kit for Furniture Feed Covers | 4 |



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## Flush Service Floor Boxes

# Round Floor Boxes for Power or Communications: 68 and 600 Series

68 and 600 Series Floor Boxes provide flush service for power or communications/data.
68 and 600 Series Floor Boxes can be used for carpet or tile applications.

### Features — 68 Series


68-D

- **Stamped steel**, concrete-tight, fully adjustable
- Electro-galvanized body and hardware
- Interior and exterior leveling screws permit adjustment to meet finished floor
- Shipped complete with expendable cap to prevent ingress of concrete during pour ½", ¾" and 1" knockouts — all bottom knockouts are accessible
- Uses P60 Series MopTite® covers and carpet plate
- For brushed aluminum, add AL after catalog number

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **68-D** | Stamped-Steel Floor Box, Deep | 4 |
| **68-D-AL** | Stamped-Steel with Aluminum Trim Ring, Deep | 4 |
| **68-S** | Stamped-Steel Floor Box, Shallow | 4 |
| **68-S-AL** | Stamped-Steel with Aluminum Trim Ring, Shallow | 4 |

### Features — 600 Series


600

- **Cast iron**, watertight body, fully adjustable
- Painted silver enamel inside and out for additional corrosion resistance
- Interior and exterior leveling screws permit adjustment to meet finished floor
- Shipped complete with expendable cap to prevent ingress of concrete during pour
- ¾" threaded conduit openings are standard
- Uses P60 Series MopTite® covers and carpet plate
- For brushed aluminum, add AL after catalog number

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **600-SC** | Cast-Iron Floor Box ¾" Conduit Tapping | 4 |
| **600-AL-SC** | Cast-Iron Floor Box ¾" Conduit Tapping with Aluminum Trim Ring | 4 |
| **600-1-SC** | Cast-Iron Floor Box 1" Conduit Tapping | 4 |
| **600-2-SC** | Cast-Iron Floor Box 2" Conduit Tapping | 4 |
| **601-1/2-SC** | Cast-Iron Floor Box ½" Conduit Tapping | 4 |
| **601-AL-SC** | Cast-Iron Floor Box ¾" Conduit Tapping with Aluminum Trim Ring | 4 |
| **601-SC** | Cast-Iron Floor Box ¾" Conduit Tapping | 4 |
| **601-1** | Cast-Iron Floor Box 1" Conduit Tapping | 4 |
| **601-1-1/4** | Cast-Iron Floor Box 1¼" Conduit Tapping | 4 |
| **602-SC** | Cast-Iron Floor Box ¾" Conduit Tapping | 4 |
| **602-AL-SC** | Cast-Iron Floor Box ¾" Conduit Tapping with Aluminum Trim Ring | 4 |
| **602-1** | Cast-Iron Floor Box 1" Conduit Tapping | 4 |
| **603-SC** | Cast-Iron Floor Box ¾" Conduit Tapping | 4 |
| **603-AL-SC** | Cast-Iron Floor Box ¾" Conduit Tapping with Aluminum Trim Ring | 4 |
| **604-SC** | Cast-Iron Floor Box ¾" Conduit Tapping | 4 |
| **604-AL-SC** | Cast-Iron Floor Box ¾" Conduit Tapping with Aluminum Trim Ring | 4 |

*P-60 Covers sold separately.*


601


602


603


604

# Flush Service Floor Boxes

## Engineering Data — 68 and 600 Series

| CAT. NO. | DIMENSIONS (IN.) A | B | C | BEFORE POUR ADJ. (IN.) | AFTER POUR ADJ. (IN.) | MAXIMUM CAPACITY KOS (CU. IN.) | CONDUIT HUBS | CONDUIT KOS (IN.) SIDES | BOTTOM |
|---|---|---|---|---|---|---|---|---|---|
| **68-D** | 4¼ | 3⅜ | 4 1/16 | 2½ | ½ | 60 | — | (4) ¾<br>(4) 1 | (2) ½<br>(2) ¾ |
| **68-S** | 4¼ | 2¾ | 4 1/16 | 1½ | ½ | 47 | — | (4) ¾ | (2) ¾ |
| **600-SC** | 4¼ | 4¼ | 5⅛ | 2½ | 15/16 | 64 | ¾ | — | — |
| **600-1-SC** | 4¼ | 4¼ | 5⅛ | 2½ | 15/16 | 64 | 1 | — | — |
| **600-11/4** | 4¼ | 4¼ | 5⅛ | 2½ | 15/16 | 64 | 1¼ | — | — |
| **600-2-SC** | 4¼ | 4¼ | 5⅛ | 2½ | 15/16 | 64 | 2 | — | — |
| **601-SC** | 4¼ | 3 3/16 | 5⅛ | 2½ | 15/16 | 56 | ¾ | — | — |
| **601-1** | 4¼ | 3 3/16 | 5⅛ | 2½ | 15/16 | 56 | 1 | — | — |
| **601-11/4** | 4¼ | 3 3/16 | 5⅛ | 2½ | 15/16 | 56 | 1¼ | — | — |
| **602-SC** | 4¼ | 3 1/32 | 4 | 2½ | 15/16 | 36 | ¾ | — | — |
| **602-1** | 4¼ | 3 1/32 | 4 | 2½ | 15/16 | 36 | ¾ | — | — |
| **603-SC** | 4¼ | 2½ | 4 | 2½ | 11/16 | 27 | ¾ | — | — |
| **604-SC** | 4¼ | 2 | 4 | 1½ | — | 15 | ¾ | — | — |

*Use P60 Series covers and carpet plates.*

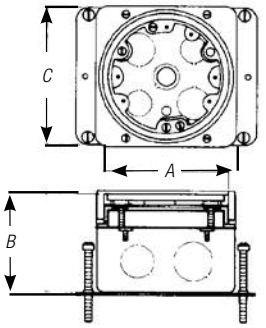
*Wiring Device: Duplex, single or voice/data plates.*



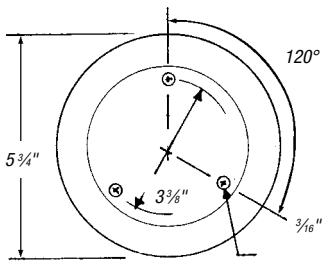
*600-SC*



*68-D*




## MopTite® Carpet Plates for 68 and 600 Series




*P-60-CACP*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **P-60-CP** | Brass Carpet Plate, 5 11/16" Diameter | 4 |
| **P-60-CPAL** | Aluminum Carpet Plate | 4 |
| **P-60-LCP** | Polycarbonate Carpet Plate, 5⅜" Diameter | 4 |
| **P-60-CACP** | Brass One-Piece Carpet Cover Plate | 4 |
| **P-60-CACP-AL** | Aluminum One-Piece Carpet | 4 |
| **P-60-3/4-2-CACP** | Brass One-Piece Carpet Plate with ¾"–2" Plugs | 4 |
| **P60-3/4-2-CACP-AL** | Aluminum One-Piece Carpet Plate with ¾"–2" Plugs | 4 |
| **P60-CACP-GFCI** | Brass One-Piece Carpet Plate for GFCI Devices | 4 |
| **P60-CACP-GFCI-AL** | Aluminum One-Piece Carpet Plate for GFCI Devices | 4 |

*New MopTite® Covers exceed UL® scrubwater exclusion requirements.*



*P-60-3/4-2-CACP*

- Polished brass finish
- Integrated carpet plate and ¾"–2" floor plate in one unit
- Furnished complete with sealing gasket and 8-32 x 1" brass screws
- 5¾" outside diameter



*P-60-CP*

- Polished brass finish
- Furnished complete with 8-32 x 1" brass screws
- For brushed aluminum, add AL after catalog number



*P-60-LCP*

- Translucent polycarbonate
- Textured finish



*P-60-CACP*

- Polished-brass finish
- Integrated carpet plate and duplex floor plate in one unit



*P-60-CACP-GFCI*

- Furnished complete with sealing gasket and 8-32 x 1" brass screws
- 5¾" outside diameter



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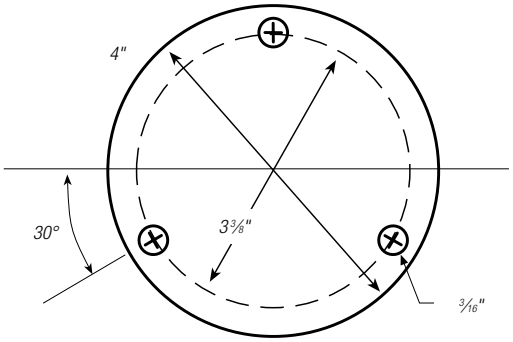
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## Flush Service Floor Boxes

# MopTite® Cover Plates for 68 and 600 Series

- Polished finish
- Furnished complete with sealing gasket and 8-32 x 7/16" brass screws
- 4" outside diameter
- For brushed aluminum, add AL after catalog number

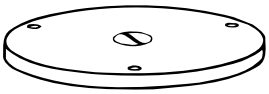



** Also includes steel seating plate for receptacles.*

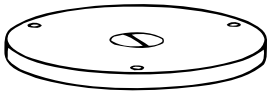
| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| P-60-1/2 | Brass Cover Plate ½" NPS Plug Size | 4 |
| P-60-1/2-AL | Aluminum Cover Plate ½" NPS Plug Size | 4 |
| P-60-3/4 | Brass Cover Plate ¾" NPS Plug Size | 4 |
| P-60-3/4-AL | Aluminum Cover Plate ¾" NPS Plug Size | 4 |
| P-60-1 | Brass Cover Plate 1" NPS Plug Size | 4 |
| P-60-1-AL | Aluminum Cover Plate 1" NPS Plug Size | 4 |
| P-60-1-1/4 | Brass Cover Plate 1¼" NPS Plug Size | 4 |
| P-60-1-1/4-AL | Aluminum Cover Plate 1¼" NPS Plug Size | 4 |
| P-60-2 | Brass Cover Plate 2" Diameter Plug Size | 4 |
| P-60-2-AL | Aluminum Cover Plate 2" Diameter Plug Size | 4 |
| P-60-2-5/8 | Brass Cover Plate 2⅝" Diameter Plug Size | 4 |
| P-60-2-5/8-AL | Aluminum Cover Plate 2⅝" Diameter Plug Size | 4 |
| P-60-1/2-2 | Brass Cover Plate ½"–2" Diameter Plug Size | 4 |
| P-60-1/2-2-AL | Aluminum Cover Plate ½"–2" Diameter Plug Size | 4 |
| P-60-3/4-2 | Brass Cover Plate ¾"–2" Diameter Plug Size | 4 |
| P-60-3/4-2-AL | Aluminum Cover Plate ¾"–2" Diameter Plug Size | 4 |
| P-60-DR | Brass Cover with Duplex Lift Lid | 4 |
| P-60-DR-AL | Aluminum Cover with Duplex Lift Lid | 4 |
| P-60-DS | Brass Cover for Duplex with Individual Lift Lids | 4 |
| P-60-DS-AL | Aluminum Cover for Duplex with Individual Lift Lids | 4 |
| P-60-DU | Brass Cover Plate with Two 17/16" Plugs for Duplex | 4 |
| P-60-DU-AL | Aluminum cover with Two 17/16" Plugs for Duplex | 4 |
| P-60-GFCI | Brass Cover Plate for GFCI Devices | 4 |
| P-60-GFCI-AL | Aluminum Cover Plate for GFCI Devices | 4 |

*68P-FL or 68P-FL-AL required to attach cover plates to 68-P floor box.*

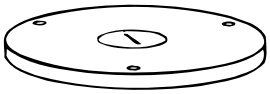
*New MopTite® Covers exceed UL® watertight requirements for 514A, 514C.*



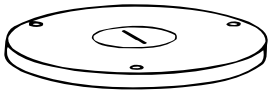
**P-60-1/2**
*½" N.P.S. Plug Size*



**P-60-3/4**
*¾" N.P.S. Plug Size*



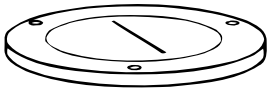
**P-60-1**
*1" N.P.S. Plug Size*



**P-60-1-1/4**
*1¼" N.P.S. Plug Size*



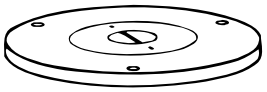
**P-60-2***
*2" dia. Plug Size*



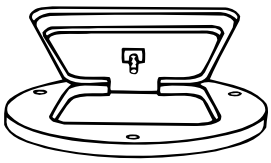
**P-60-2-5/8***
*2⅝" dia. Plug Size*



**P-60-1/2-2***
*½" & 2" dia. Plug Size*



**P-60-3/4-2***
*½" & 2" dia. Plug Size*



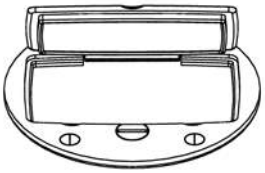
**P-60-DR***
*Duplex Lift Lid*



**P-60-DU***
*Duplex 17/16" Plugs*



**P-60-DS***
*Hinged Lift Lids*



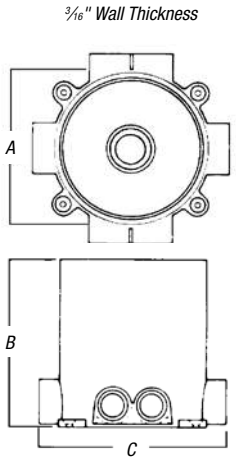
**P-60-GFCI***

## Flush Service Floor Boxes

# 68-P Round Non-Metallic Floor Box

The 68-P floor box provides flush service for power or communications and data. The non-metallic floor box is used in concrete floors and is suitable for carpet, tile or wood applications.

- High-strength rigid PVC construction, non-corrosive
- Easy installation with no leveling required — just cut the box level with the concrete after the pour
- Compatible with standard-schedule PVC conduit (1", ¾" and ½", reducers included)
- Pre-packaged with concrete cap and six hub plugs






| CAT. NO. | DIMENSIONS (IN.) A | B | C | AFTER POUR ADJ. | MAXIMUM CAPACITY (CU. IN.) | STANDARD CONDUIT TAPPING | COVERS AND CARPET PLATES | WIRING DEVICE | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|
| **68-P** | 5 5/32 | 6 | 6 3/8 | None | 100 | (4) ¾" (2) 1" | P60 P68 series | Single duplex or data/voice | 8 |

*Minimum pour 3 inches.*

*Cubic in. capacity is 17 cubic inches per inch of box height.*

***Note:*** *Must use 68-PAR to attach cover plates to 68-P floor box.*



*68-P*

## Adjusting Ring for 68-P Floor Box

- Non-metallic adjusting ring includes pigtail and clips

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **68-PAR** | Non-Metallic Adjusting Ring | 8 |

*Required to mount P60 and P68 Series covers to 68P floor box (not needed for dual-voltage kits).*



*68-PAR*

## Metallic Tile Trims for 68-P Floor Box

- Tile trim rings are available in brass or aluminum for flush installation of metallic plates in linoleum, wood or carpeted floors. Must be used to mount P60 series plates. (Not required for P-68 covers, P60-CACP or P60-3/4-2-CACP)

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **68P-FL** | Tile Trim Ring, Brass | 4 |
| **68P-FL-AL** | Tile Trim Ring, Aluminum | 4 |

*Required to attach P60 Series cover plates to 68-P floor box.*



*68P-FL/68P-FL-AL*



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**Technical Services**
Tel: 888.862.3289

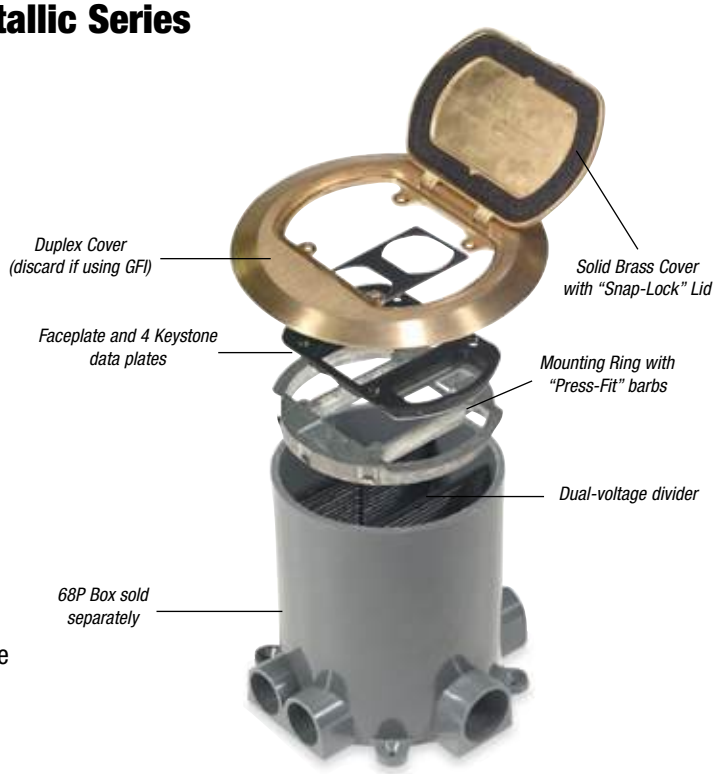
www.tnb.com

# Flush Service Floor Boxes



## Dual-Voltage Kits for 68-P Non-Metallic Series






- Voltage divider has easy-cut score lines to accommodate concrete depths of 3 to 6 inches
- Faceplate has removable data plates and can accommodate GFCI or standard duplex receptacles
- Kit comes equipped with 4 standard keystone-size openings in the data plates. Other styles available include openings sized for Ortronics, Avaya, Panduit and Hubbell
- MopTite® cover uses a "snap-lock" to close the lid. No screws to turn...just push down the lid and it snaps in place. The cover uses a factory-installed gasket and exceeds all UL scrubwater exclusion requirements for carpet, wood and tile floors
- MopTite® cover available in solid brass or aluminum
- Includes everything required for a standard installation (68P floor box, data jacks and receptacles not included)

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **68P-DV-KIT-BRS** | Dual-Voltage Divider Kit with MopTite® Brass Cover | 1 |
| **68P-DV-KIT-AL** | Dual-Voltage Divider Kit with MopTite Aluminum Cover | 1 |
| **68P-DV-DP-ORT** | Ortronics Data Plate to Accommodate 2 Jacks | 10 |
| **68P-DV-DP-AVA** | Avaya Data Plate to Accommodate 4 Jacks | 10 |
| **68P-DV-DP-PAN** | *PANDUIT* Data Plate to Accommodate 2 Jacks | 10 |
| **68P-DV-DP** | Standard Data Plate to Accommodate 4 Keystone Jacks | 10 |
| **68P-EXT** | 6" Extension for 68P Floor Box * | 4 |
| **68P-EXT-DIV** | Voltage Dividers for 68P-EXT * | 4 |

**Keystone data plates come standard with the kit. Other style data plates are available from T&B and can be ordered separately.*

## 6-Inch Extension for 68-P Floor Box



*68-P Floor Box with (2) 68P-EXT Extensions*



*68P-EXT 6" Extension*



*68P-EXT-DIV Voltage Dividers*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **68P-EXT** | 6" Extension for 68-P Floor Box * | 4 |
| **68P-EXT-DIV** | Voltage Dividers for 68P-EXT * | 4 |
| **68-P** | Round PVC Floor Box for Concrete Applications | 8 |

** For use with Steel City® round PVC floor box only, catalog number 68-P.*

# Flush Service Floor Boxes

## MopTite® Metallic Carpet Plates for 68-P Series

- Polished brass finish
- Furnished complete with 8-32 x 1" brass screws
- For brushed aluminum, add AL after catalog number



**P60-CACP**
*One-piece solid-brass duplex plate with screw-lock lids. 5¾" O.D. Mounting holes on a 3⅜" dia.*



**P60-3/4-2-CACP**
*One-piece solid-brass communications carpet plate. 5¾" O.D. Mounting holes on a 3⅜" dia.*



**P60-CACP-GFCI**



**P60-CP**

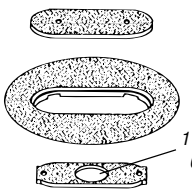
| CAT. NO. | DESCRIPTION | FINISH | STD. CTN. |
|---|---|---|---|
| **P60-CACP** | One-Piece Duplex Cover and Carpet Flange Brass | — | 4 |
| **P60-CACP-AL** | One-Piece Duplex Cover and Carpet Flange Aluminum | — | 4 |
| **P60-3/4-2-CACP** | One-Piece Cover & Carpet Flange with ¾" and 2" Plugs | Brass | 4 |
| **P60-3/4-2-CACP-AL** | One-Piece Cover & Carpet Flange with ¾" and 2" Plugs | Aluminum | 4 |
| **P60-CACP-GFCI*** | One-Piece GFCI Cover and Carpet Flange | Brass | 4 |
| **P60-CACP-GFCI-AL*** | One-Piece GFCI Cover and Carpet Flange | Aluminum | 4 |
| **P60-CP*** | Carpet Flange | Brass | 4 |
| **P60-CP-AL*** | Carpet Flange | Aluminum | 4 |

**Requires 68P-FL or 68P-FL-AL to attach covers to 68-P Floor Box.*

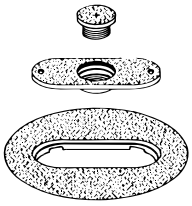
*New MopTite® Covers exceed UL watertight requirements for 514A, 514C.*

## MopTite® Non-Metallic Carpet Plates for 68-P Series

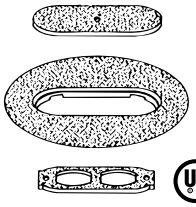
*Non-metallic, single receptacle plate (SRC) with matching carpet plate and cover. 6" O.D.*




*Non-metallic floor service cover (FSC) with 1" NPS screw plug accommodates most above-floor service fittings with matching carpet plate. 6" O.D.*



*Non-metallic, duplex/voice data receptacle plates (DRC) with matching carpet plate and cover. 6" O.D.*



| CAT. NO. | COLOR | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **P-68-SRC-GRY** | Gray | Non-Metallic Carpet Plate and Cover for Single Receptacle | 4 |
| **P-68-SRC-BRN** | Brown | Non-Metallic Carpet Plate and Cover for Single Receptacle | 4 |
| **P-68-SRC-BGE** | Beige | Non-Metallic Carpet Plate and Cover for Single Receptacle | 4 |
| **P-68-SRC-BLK** | Black | Non-Metallic Carpet Plate and Cover for Single Receptacle | 4 |
| **P-68-FSC-GRY** | Gray | Non-Metallic Carpet Plate and Cover with 1" NPS Screw Plug | 4 |
| **P-68-FSC-BRN** | Brown | Non-Metallic Carpet Plate and Cover with 1" NPS Screw Plug | 4 |

*New MopTite® Covers exceed UL watertight requirements for 514A, 514C.*

| CAT. NO. | COLOR | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **P-68-FSC-BGE** | Beige | Non-Metallic Carpet Plate and Cover with 1" NPS Screw Plug | 4 |
| **P-68-FSC-BLK** | Black | Non-Metallic Carpet Plate and Cover with 1" NPS Screw Plug | 4 |
| **P-68-DRC-GRY** | Gray | Non-Metallic Carpet Plate and Cover for Duplex Receptacle | 4 |
| **P-68-DRC-BRN** | Brown | Non-Metallic Carpet Plate and Cover for Duplex Receptacle | 4 |
| **P-68-DRC-BGE** | Beige | Non-Metallic Carpet Plate and Cover for Duplex Receptacle | 4 |
| **P-68-DRC-BLK** | Black | Non-Metallic Carpet Plate and Cover for Duplex Receptacle | 4 |

*New MopTite® Covers exceed UL watertight requirements for 514A, 514C.*



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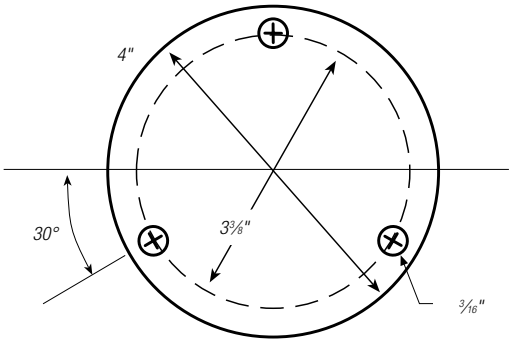
**Technical Services**
Tel: 888.862.3289

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## Flush Service Floor Boxes

# MopTite® Metallic Cover Plates for 68-P Series

- Polished finish
- Furnished complete with sealing gasket and 8-32 x 7/16" brass screws
- 4" outside diameter
- For brushed aluminum, add AL after catalog number

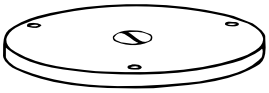



** Also includes steel seating plate for receptacles.*

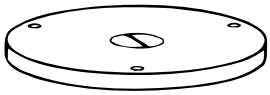
| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **P-60-1/2** | Brass Cover Plate ½" NPS Plug Size | 4 |
| **P-60-1/2-AL** | Aluminum Cover Plate ½" NPS Plug Size | 4 |
| **P-60-3/4** | Brass Cover Plate ¾" NPS Plug Size | 4 |
| **P-60-3/4-AL** | Aluminum Cover Plate ¾" NPS Plug Size | 4 |
| **P-60-1** | Brass Cover Plate 1" NPS Plug Size | 4 |
| **P-60-1-AL** | Aluminum Cover Plate 1" NPS Plug Size | 4 |
| **P-60-1-1/4** | Brass Cover Plate 1¼" NPS Plug Size | 4 |
| **P-60-1-1/4-AL** | Aluminum Cover Plate 1¼" NPS Plug Size | 4 |
| **P-60-2** | Brass Cover Plate 2" Diameter Plug Size | 4 |
| **P-60-2-AL** | Aluminum Cover Plate 2" Diameter Plug Size | 4 |
| **P-60-2-5/8** | Brass Cover Plate 2⅝" Diameter Plug Size | 4 |
| **P-60-2-5/8-AL** | Aluminum Cover Plate 2⅝" Diameter Plug Size | 4 |
| **P-60-1/2-2** | Brass Cover Plate ½"–2" Diameter Plug Size | 4 |
| **P-60-1/2-2-AL** | Aluminum Cover Plate ½"–2" Diameter Plug Size | 4 |
| **P-60-3/4-2** | Brass Cover Plate ¾"–2" Diameter Plug Size | 4 |
| **P-60-3/4-2-AL** | Aluminum Cover Plate ¾"–2" Diameter Plug Size | 4 |
| **P-60-DR** | Brass Cover with Duplex Lift Lid | 4 |
| **P-60-DR-AL** | Aluminum Cover with Duplex Lift Lid | 4 |
| **P-60-DS** | Brass Cover for Duplex with Individual Lift Lids | 4 |
| **P-60-DS-AL** | Aluminum Cover for Duplex with Individual Lift Lids | 4 |
| **P-60-DU** | Brass Cover Plate with Two 1 7/16" Plugs for Duplex | 4 |
| **P-60-DU-AL** | Aluminum cover with Two 1 7/16" Plugs for Duplex | 4 |
| **P-60-GFCI** | Brass Cover Plate for GFCI Devices | 4 |
| **P-60-GFCI-AL** | Aluminum Cover Plate for GFCI Devices | 4 |

*68P-FL or 68P-FL-AL required to attach cover plates to 68-P floor box.*

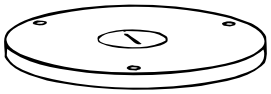
*New MopTite® Covers exceed UL watertight requirements for 514A, 514C.*



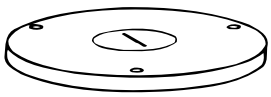
**P-60-1/2**
*½" N.P.S. Plug Size*



**P-60-3/4**
*¾" N.P.S. Plug Size*



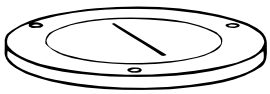
**P-60-1**
*1" N.P.S. Plug Size*



**P-60-1-1/4**
*1¼" N.P.S. Plug Size*



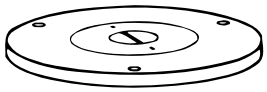
**P-60-2***
*2" dia. Plug Size*



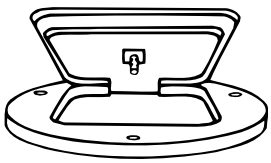
**P-60-2-5/8***
*2⅝" dia. Plug Size*



**P-60-1/2-2***
*½" & 2" dia. Plug Size*



**P-60-3/4-2***
*½" & 2" dia. Plug Size*



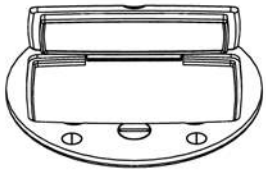
**P-60-DR***
*Duplex Lift Lid*



**P-60-DS***
*Hinged Lift Lids*



**P-60-DU***
*Duplex 1 7/16" Plugs*



**P-60-GFCI***

## Flush Service Floor Boxes

# Floor Boxes for Single Short-Strap Receptacles or Communications

**Service Fitting Application**

78 and 88 Series Floor Boxes provide flush service for power or communications and data. They can be used for either carpet or tile applications.

## 78 Series



*78SC*

- **Cast iron**, watertight body, semi-adjustable
- Painted silver enamel inside and out for additional corrosion resistance
- Exterior leveling screws and threaded vertical adjusting ring permit adjustment to meet finish floor
- Shipped complete with expandable cap to prevent ingress of concrete during pour
- ¾" threaded conduit openings
- Uses P90 Series MopTite® covers

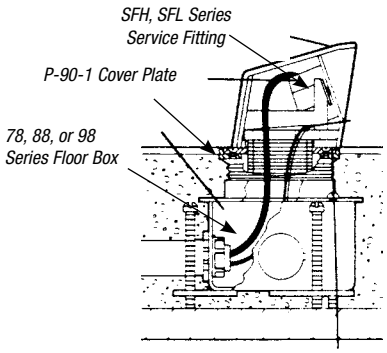
## 88 Series

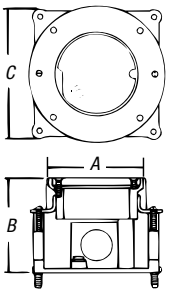


*88-D*

- **Stamped steel**, concrete-tight, semi-adjustable
- Electro-galvanized body and hardware
- Exterior leveling screws and threaded vertical adjusting ring permit adjustment to meet finish floor
- Shipped complete with expandable cap to prevent ingress of concrete during pour
- ½" and ¾" knockouts — all bottom knockouts accessible
- Uses P90 Series MopTite® covers

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **78SC** | Cast-Iron Single-Gang Floor Box with ¾" Conduit Tapping | 4 |
| **78-S** | Cast-Iron Single-Gang Floor Box (shallow) | 4 |
| **88-D** | Stamped-Steel Single-Gang Floor Box with ½" and ¾" Conduit Tapping | 4 |
| **88-S** | Shallow Version Stamped Steel | 4 |




**Engineering Data**

| CAT. NO. | DIMENSIONS (IN.) A | B | C | BEFORE POUR ADJ. (IN.) | AFTER POUR ADJ. (IN.) | MAXIMUM CAPACITY CU. IN. | STANDARD CONDUIT TAPPING (IN.) |
|---|---|---|---|---|---|---|---|
| **78SC** | 3 | 2 13/16 | 3⅜ | 2½ | ¾ | 24 | ¾ |
| **78-S** | 3 | 2⅝ | 3⅜ | 1½ | ¾ | 20 | ¾ |
| **88-D** | 3 | 3¼ | 5¾ | 2½ | ¾ | 29 | — |
| **88-S** | 3 | 2¾ | 5¾ | 1½ | ¾ | 23 | — |



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# Flush Service Floor Boxes

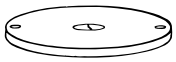


## Engineering Data *(continued)*

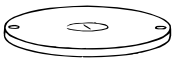
| CAT. NO. | MAXIMUM CONDUIT TAPPING (IN.) W/BUSHING | MAXIMUM CONDUIT TAPPING (IN.) W/O BUSHING | CONDUIT KOS (IN.) SIDES | CONDUIT KOS (IN.) BOTTOM | COVERS AND CARPET PLATES | WIRING DEVICE |
|---|---|---|---|---|---|---|
| **78SC** | ¾ | 1 | — | — | P90 series | Sing. short, Strap rec. |
| **78-S** | ¾ | 1 | — | — | P90 series | Sing. short, Strap rec. |
| **88-D** | — | — | (2) ½ | (3) ½ | P90 series | Sing. short |
| | | | (2) ¾ | (2) ¾ | | Strap rec. |
| **88-S** | — | — | (2) ½ | (3) ½ | P90 series | Sing. short |
| | | | (2) ¾ | (2) ¾ | | Strap rec. |

## MopTite® Cover Plates for 78 and 88 Series

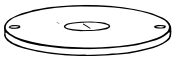
- Polished-brass finish
- Furnished complete with sealing gasket and 6-32 x ½" brass screws
- 2 13/16" outside diameter
- For brushed aluminum, add AL after catalog number



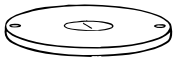
*P-90-1/2*
*½" N.P.S. plug*



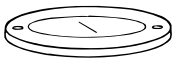
*P-90-3/4*
*¾" N.P.S. plug*



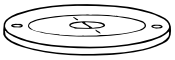
*P-90-1*
*1" N.P.S. plug*



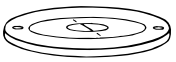
*P-90-1-1/4*
*1¼" N.P.S. plug*



*P-90-2**
*2" dia. plug*



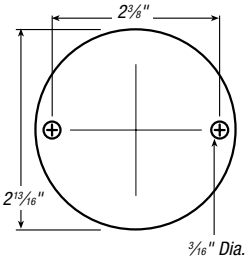
*P-90-1/2-2**
*½" & 2" dia. plugs*



*P-90-3/4-2**
*¾" & 2" dia. plugs*

| CAT. NO. | DESCRIPTION | FINISH | STD. CTN. |
|---|---|---|---|
| **P-90-1/2** | Cover Plate ½" NPS Plug | Brass | 4 |
| **P-90-3/4** | Cover Plate ¾" NPS Plug | Brass | 4 |
| **P-90-3/4-AL** | Cover Plate ¾" NPS Plug | Aluminum | 4 |
| **P-90-1** | Cover Plate 1" NPS Plug | Brass | 4 |
| **P-90-1-AL** | Cover Plate 1" NPS Plug | Aluminum | 4 |
| **P-90-1-1/4** | Cover Plate 1¼" NPS Plug | Brass | 4 |

| CAT. NO. | DESCRIPTION | FINISH | STD. CTN. |
|---|---|---|---|
| **P-90-1-1/4-AL** | Cover Plate 1¼" NPS Plug | Aluminum | 4 |
| **P-90-2** | Cover Plate 2" UN Plug | Brass | 4 |
| **P-90-2-AL** | Cover Plate 2" UN Plug | Aluminum | 4 |
| **P-90-1/2-2** | Cover Plate ½" & 2" Plug | Brass | 4 |
| **P-90-3/4-2** | Cover Plate ¾" & 2" Plug | Brass | 4 |
| **P-90-3/4-2-AL** | Cover Plate ¾" & 2" Plug | Aluminum | 4 |




*New MopTite® Covers exceed UL watertight requirements for 514A, 514C.*

*****Also includes steel seating plates for receptacles.*

*For above-floor service fittings for 78, 88 and 98 series floor boxes, see* ***page A-170***

## Accessories for 78 and 88 Series Floor Boxes

- Extends vertical adjusting ring 1⅛"
- Seven cubic inch capacity
- 15-Amp, 125-Volt, NEMA grounding type
- Mounted on steel seating plate
- For use with 2" diameter-opening floor plate



*478-G-12*

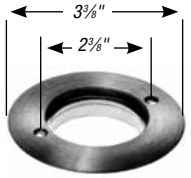


*8805-E*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **8805-E** | Extension Adjusting Ring | 4 |
| **478-G-12** | 15-Amp 125-Volt NEMA Grounding Receptacle | 4 |

## Carpet Plate for 78 and 88 Series Floor Boxes

- Polished-brass finish
- Furnished complete with 6-32 x 1" brass flathead screws and gasket
- Threaded 2-20UN-2B to accept 694 plug
- 3⅜" O.D. with ⅝" flange
- For brushed aluminum, add AL after catalog number




*P-90-CP*

| CAT. NO. | DESCRIPTION | FINISH | STD. CTN. |
|---|---|---|---|
| **P-90-CP** | Carpet Plate | Brass | 4 |
| **P-90-CP-AL** | Carpet Plate | Aluminum | 4 |

*Will not accept P90 covers. Will accept 694 threaded plug.*

## Flush Service Floor Boxes

# Floor Boxes for Single Short-Strap Receptacles or Communications

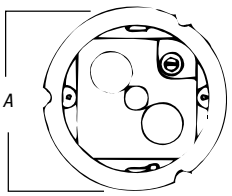
671 and 672 Series Floor Boxes provide flush service for power or communications and data. They can be used in either wood or concrete floors and are suitable for carpet, tile or wood applications.

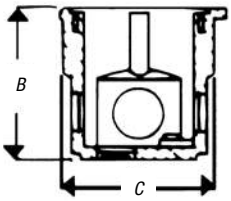


671SC



672




## 671 and 672 Floor Boxes

- Cast iron, watertight, non-adjustable
- Painted silver enamel inside and out for additional corrosion resistance
- For use in wood or concrete floors
- ½" and ¾" threaded conduit openings; uses P67 Series covers
- Cat. No. 672 is the 671 floor box with factory-mounted 15-ampere, 125-volt, NEMA grounding receptacle and P67-2 MopTite® cover plate

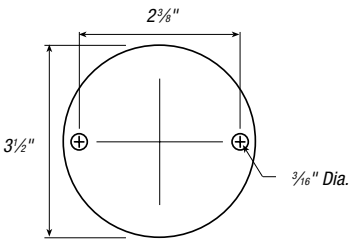
| CAT. NO. | DIMENSIONS (IN.) A | B | C | MAXIMUM CAPACITY (CU. IN.) | STANDARD CONDUIT TAPPING | MAXIMUM CONDUIT TAPPING (IN.) W/BUSHING | W/O BUSHING |
|---|---|---|---|---|---|---|---|
| **671SC** | 3½ | 3 | 2 31/32 | 13 | (2)–¾" | ¾ | ¾ |
| **672** | 3½ | 3 3/16 | 2 31/32 | 13 | (4)–½" | ¾ | ¾ |

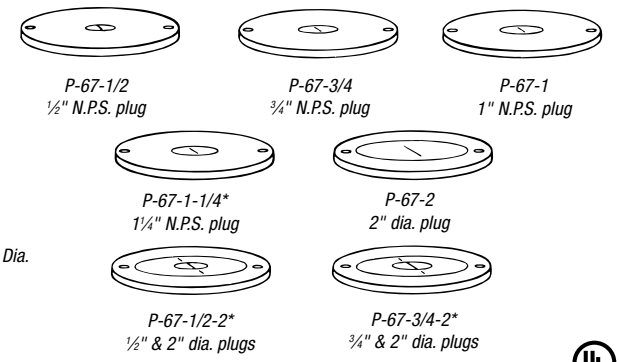
| CAT. NO. | CONDUIT KOS (IN.) SIDES | BOTTOM | COVERS/ CARPET PLATES | WIRING DEVICE | STD. CTN. |
|---|---|---|---|---|---|
| **671SC** | (2) ½ | (2) ½ | P67 | Sing. short | 4 |
| | (2) ¾ | — | series | Strap rec. | |
| **672** | (2) ½ | (2) ½ | P67 | Sing. short | 4 |
| | (2) ¾ | — | series | Strap rec. | |

*New MopTite® Covers exceed UL watertight requirements for 514A, 514C.*

## MopTite® Plates for 671 and 672 Series

- Polished brass finish
- Furnished complete with sealing gasket and 6-32 x ½" brass screws
- 3½" outside diameter



*P-67-1/2*
*½" N.P.S. plug*

*P-67-3/4*
*¾" N.P.S. plug*

*P-67-1*
*1" N.P.S. plug*

*P-67-1-1/4**
*1¼" N.P.S. plug*

*P-67-2*
*2" dia. plug*

*P-67-1/2-2**
*½" & 2" dia. plugs*

*P-67-3/4-2**
*¾" & 2" dia. plugs*

**Also includes seating plate for receptacle.*

| CAT. NO. | DESCRIPTION | FINISH | STD. CTN. |
|---|---|---|---|
| **P-67-1/2** | Cover Plate with ½" NPS Plug | Brass | 4 |
| **P-67-3/4** | Cover Plate with ¾" NPS Plug | Brass | 4 |
| **P-67-3/4-AL** | Cover Plate with ¾" NPS Plug | Aluminum | 4 |
| **P-67-1** | Cover Plate with 1" NPS Plug | Brass | 4 |
| **P-67-1-AL** | Cover Plate with 1" NPS Plug | Aluminum | 4 |
| **P-67-1-1/4** | Cover Plate with 1¼" NPS Plug | Brass | 4 |
| **P-67-2** | Cover Plate with 2" UN Thread Plug | Brass | 4 |
| **P-67-2-AL** | Cover Plate with 2" UN Thread Plug | Aluminum | 4 |
| **P-67-1/2-2** | Cover Plate with ½" & 2" Plug | Brass | 4 |
| **P-67-3/4-2** | Cover Plate with ¾" & 2" Plug | Brass | 4 |

*New MopTite® Covers exceed UL scrubwater exclusion requirements.*



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# Flush Service Floor Boxes



## Carpet Plates for 671 and 672 Floor Boxes

- Polished-brass finish
- Furnished complete with 6-32 x 1"-long brass flathead screws and gasket
- For brushed aluminum, add AL after catalog number
- 3⅜" outside diameter



*P-90-CP*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **P-90-CP** | Carpet Plate — Brass | 4 |
| **P-90-CP-AL** | Carpet Plate — Aluminum | 4 |

## Accessories for 671 and 672 Floor Boxes

- Use brass edge ring for neat appearance when non-adjustable floor box is installed in concrete
- Edge ring has 3¾" OD and adds ⅜" to floor box height
- 15-amp, 125-volt, NEMA grounding type
- Mounted on steel seating plate
- For use with 2" diameter opening floor plate



*P-67-F Edge Ring*



*478-G-12 Short Strap Receptacle*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **P-67-F** | Brass Edge Ring for Concrete | 4 |
| **478-G-12** | 15-Amp, 125-Volt NEMA Grounding Receptacle | 4 |

## Floor Plate Plug Inserts for 78, 88, 671 or 672 Series

| CAT. NO. | SIZE OR DESCRIPTION | STD. CTN. |
|---|---|---|
| **690-SC** | ½"–14" NPS Thread | 4 |
| **691-SC** | ¾"–14" NPS Thread | 4 |
| **692-SC** | 1"–11½" NPS Thread | 4 |
| **693-SC** | 1¼"–11½" NPS Thread | 4 |
| **694** | 2"–20" UN Thread | 4 |
| **695** | ½"–2" | 4 |
| **696-SC** | ¾"–2" | 4 |
| **697** | 2⅛"–20" UN 2A Thread | 4 |
| **698** | 1⅞16" for Duplex P-60-DU | 4 |

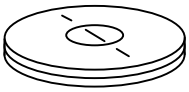
*For standard plug inserts ½" through 2", see* ***page A-155***

*Catalog numbers are for brass.*

*For aluminum, add AL after catalog number.*



*692*



*695*

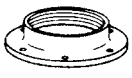


*695*

## Floor Box Body Parts



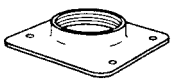
*8805*



*8803*



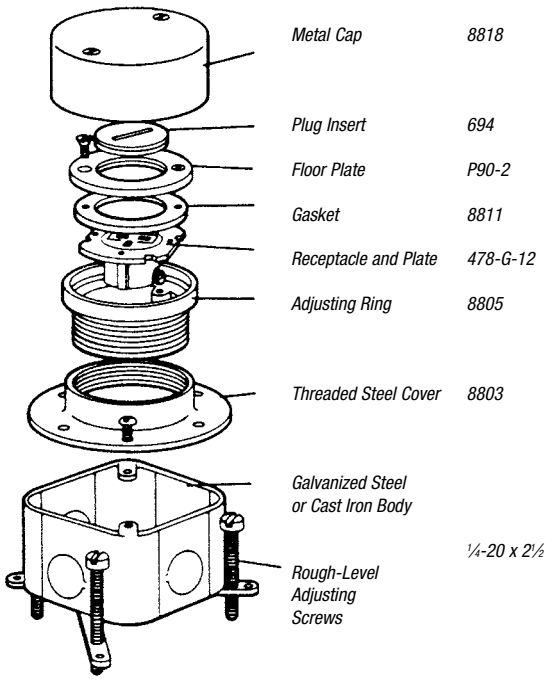
*8818*



*9803*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **8805** | Brass Adjusting Ring | 4 |
| **8803** | Threaded Steel Body Cover of 78 and 88 Series | 4 |
| **8818** | Metal Protective Cap | 4 |
| **9803** | Threaded Steel Body Cover for 98 Series | 4 |

*2⅛–20 UN 2A Thread.*




*Floor Box Assembly with Floor Plate*

## Flush Service Floor Boxes

# Multiple-Gang Floor Boxes for Power and Communications

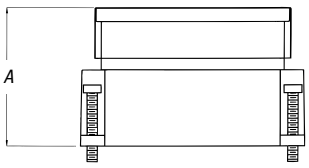
640 and 840 Series Floor Boxes provide flush service for power, communications and data. Multiple-gang boxes enable the user to place high- and low-voltage in a single floor box. Floor boxes up to four-gangs are available. 640 and 840 Series boxes can be used for either carpet or tile applications.

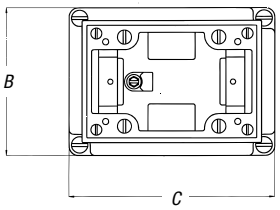


641



842-SC




### 640 Series

- Cast iron, watertight body, fully adjustable
- Painted silver enamel inside and out for additional corrosion resistance
- Interior and exterior leveling screws permit adjustment to finished floor
- Removable partitions for large capacity requirements on 2-, 3- and 4-gang
- Shipped complete with expendable cap to prevent ingress of concrete during pour
- ¾" threaded conduit openings are standard
- Uses P64 Series MopTite® covers (one cover per gang)
- For brushed aluminum, add AL after catalog number

### 840SC Series (Shallow)

- Cast iron, watertight body, semi-adjustable
- Painted silver enamel inside and out for additional corrosion resistance
- Exterior leveling screws for adjustment to finished floor
- Removable partitions for large capacity requirements on 2- and 3-gang
- Shipped complete with expendable cap to prevent ingress of concrete during pour
- ¾" threaded conduit openings are standard
- Uses P64 Series MopTite® covers (one cover per gang)
- For brushed aluminum, add AL after catalog number

### Engineering Data

| CAT. NO. | DIMENSIONS (IN.) A | B | C | BEFORE POUR ADJ. (IN.) | AFTER POUR ADJ. (IN.) |
|---|---|---|---|---|---|
| 641 | 3⅝ | 4 | 5½ | 2½ | ⅝ |
| 642 | 3⅝ | 7 | 5½ | 2½ | ⅝ |
| 643 | 3⅝ | 10 | 5½ | 2½ | ⅝ |
| 644 | 3⅝ | 12 15/16 | 5½ | 2½ | ⅝ |
| 841-SC | 2 | 4 | 5½ | 1½ | — |
| 842-SC | 2 | 7 | 5½ | 1½ | — |
| 843-SC | 2 | 10 | 5½ | 1½ | — |

| CAT. NO. | NUMBER OF GANGS | MAXIMUM CAPACITY (CU. IN.) | CONDUIT HUBS (IN.) |
|---|---|---|---|
| 641 | 1 | 35 | ¾ |
| 642 | 2 | 37 per gang | ¾ |
| 643 | 3 | 37 per gang | ¾ |
| 644 | 4 | 37 per gang | ¾ |
| 841-SC | 1 | 15 | ¾ |
| 842-SC | 2 | 16.5 per gang | ¾ |
| 843-SC | 3 | 16.5 per gang | ¾ |

*Use P64 Series covers and carpet plates.*

*Wiring Device: Duplex, single or voice/data plates.*

**Additional hub sizes available — see **next page**.*



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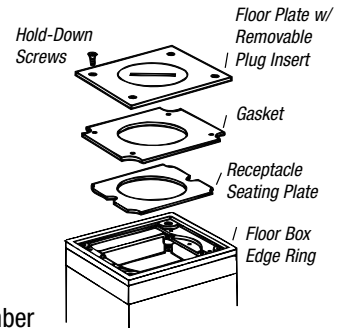
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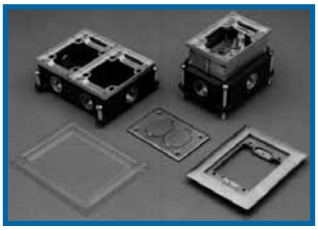
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# Flush Service Floor Boxes

## 640 and 840 Series Floor Boxes

- Polished brass finish
- Furnished complete with sealing gasket and 8-32 x 7/16" brass screws
- 3" x 4½" outside dimension
- For brushed aluminum, add AL after catalog number
- All covers meet MopTite® requirements



| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **641** | Cast-Iron Single-Gang Floor Box with ¾" Conduit Hubs | 4 |
| **641-AL** | Cast-Iron Single-Gang Floor Box with ¾" Conduit Hubs & Aluminum Trim | 4 |
| **641-1** | Cast-Iron Single-Gang Floor Box with 1" Conduit Hubs | 4 |
| **SP-641-1-AL** | Cast-Iron Single-Gang Floor Box with 1" Conduit Hubs & Aluminum Trim | 4 |
| **642** | Cast-Iron Two-Gang Floor Box with ¾" Conduit Hubs | 2 |
| **642-AL** | Cast-Iron Two-Gang Floor Box with ¾" Conduit Hubs & Aluminum Trim | 2 |
| **642-1** | Cast-Iron Two-Gang Floor Box with 1" Conduit Hubs | 2 |
| **SP-642-1-AL** | Cast-Iron Two-Gang Floor Box with 1" Conduit Hubs & Aluminum Trim | 2 |
| **643** | Cast-Iron Three-Gang Floor Box with ¾" Conduit Hubs | 1 |
| **643-AL** | Cast-Iron Three-Gang Floor Box with ¾" Conduit Hubs & Aluminum Trim | 1 |
| **SP-643-1** | Cast-Iron Three-Gang Floor Box with 1" Conduit Hubs | 1 |
| **SP-643-1-AL** | Cast-Iron Three-Gang Floor Box with 1" Conduit Hubs & Aluminum Trim | 1 |
| **644** | Cast-Iron Four-Gang Floor Box with ¾" Conduit Hubs | 1 |
| **SP-644-AL** | Cast-Iron Four-Gang Floor Box with ¾" Conduit Hubs & Aluminum Trim | 1 |
| **841-SC** | Shallow Cast-Iron Single-Gang Floor Box with ¾" Conduit Hubs | 4 |
| **841-AL** | Shallow Cast Iron Single-Gang Floor Box with ¾" Conduit Hubs & Aluminum Trim | 4 |
| **842-SC** | Shallow Cast-Iron Two-Gang Floor Box with ¾" Conduit Hubs | 2 |
| **842-AL-SC** | Shallow Cast-Iron Two-Gang Floor Box with ¾" Conduit Hubs & Aluminum Trim | 2 |
| **843-SC** | Shallow Cast-Iron Three-Gang Floor Box with ¾" Conduit Hubs | 1 |
| **843-AL-SC** | Shallow Cast-Iron Three-Gang Floor Box with ¾" Conduit Hubs & Aluminum Trim | 1 |

*Boxes supplied with brass tile trim unless otherwise specified.*

## MopTite® Cover Plates for 640 and 840 Series

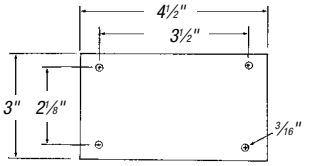
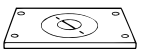


*Plate Dimensions*


*P-64-3/4-2**
*¾" & 2" dia. plug*


*P-64-2-5/8**
*2⅝" dia. plug*


*P-64-DS**
*Duplex Lift lids*


*P-64-DU**
*Duplex 1⁷⁄₁₆" plugs*

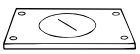

*P-64-GFCI*

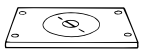

*P-64-1/2*
*½" N.P.S. plug*


*P-64-3/4*
*¾" N.P.S. plug*


*P-64-1*
*1" N.P.S. plug*


*P-64-1-1/4*
*1¼" N.P.S. plug*


*P-64-2**
*2" dia. plug*


*P-64-1/2-2**
*½" & 2" dia. plug*

**Also includes seating plate for receptacle like others.*

| CAT. NO. | DESCRIPTION | FINISH | STD. CTN. |
|---|---|---|---|
| **P-64-1/2** | Cover Plate ½" NPS Plug | Brass | 4 |
| **P-64-1/2-AL** | Cover Plate ½" NPS Plug | Aluminum | 4 |
| **P-64-3/4** | Cover Plate ¾" NPS Plug | Brass | 4 |
| **P-64-3/4-AL** | Cover Plate ¾" NPS Plug | Aluminum | 4 |
| **P-64-1** | Cover Plate 1" NPS Plug | Brass | 4 |
| **P-64-1-AL** | Cover Plate 1" NPS Plug | Aluminum | 4 |
| **P-64-1-1/4** | Cover Plate 1¼" NPS Plug | Brass | 4 |
| **P-64-1-1/4-AL** | Cover Plate 1¼" NPS Plug | Aluminum | 4 |
| **P-64-2** | Cover Plate 2" UN Plug | Brass | 4 |
| **P-64-2-AL** | Cover Plate 2" UN Plug | Aluminum | 4 |
| **P-64-1/2-2** | Cover Plate ½" & 2" UN Plug | Brass | 4 |
| **P-64-1/2-2-AL** | Cover Plate ½" & 2" UN Plug | Aluminum | 4 |
| **P-64-3/4-2** | Cover Plate ¼" & 2" UN Plug | Brass | 4 |
| **P-64-3/4-2-AL** | Cover Plate ¾" & 2" UN Plug | Aluminum | 4 |
| **P-64-DS** | Cover Plate Duplex Lift Lids | Brass | 4 |
| **P-64-DS-AL** | Cover Plate Duplex Lift Lids | Aluminum | 4 |
| **P-64-2-5/8** | Cover Plate 2⅝" UN Plug | Brass | 4 |
| **P-64-2-5/8-AL** | Cover Plate 2⅝" UN Plug | Aluminum | 4 |
| **P-64-DU** | Cover Plate Duplex 1⁷⁄₁₆" Plugs | Brass | 4 |
| **P-64-DU-AL** | Cover Plate Duplex 1⁷⁄₁₆" Plugs | Aluminum | 4 |
| **P-64-GFCI** | Cover Plate GFCI Flip Lid | Brass) | 4 |
| **P-64-GFCI-AL** | Cover Plate GFCI Flip Lid | Aluminum | 4 |

*New MopTite® Covers exceed UL® scrubwater exclusion requirements for 514A, 514C.*

# Flush Service Floor Boxes

## Metallic Carpet Plates for 640 and 840 Series



P-64-CP

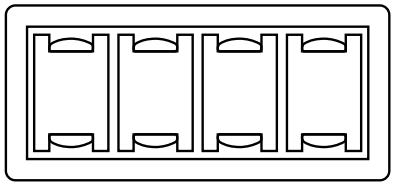


P-64-2G-CP



P-64-3G-CP

| CAT. NO. | NUMBER OF GANGS | OUTSIDE DIMENSION (IN.) | MATERIAL | STD. CTN. |
|---|---|---|---|---|
| P64-CP | 1 | 4⅝ x 6⅛ | Brass | 4 |
| P64-CP-AL | 1 | 4⅝ x 6⅛ | Aluminum | 4 |
| P64-2G-CP | 2 | 7⅝ x 6⅛ | Brass | 4 |
| P64-2G-CP-AL | 2 | 7⅝ x 6⅛ | Aluminum | 4 |
| P64-3G-CP | 3 | 10⅝ x 6⅛ | Brass | 4 |
| P64-3G-CP-AL | 3 | 10⅝ x 6⅛ | Aluminum | 4 |
| P64-4G-CP | 4 | 13⅝ x 6⅛ | Brass | 4 |
| P64-4G-CP-AL | 4 | 13⅝ x 6⅛ | Aluminum | 4 |



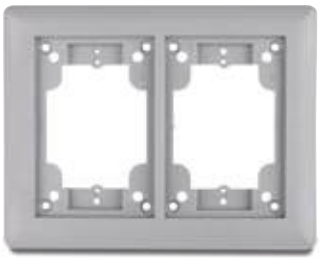
P-64-4G-CP

## Non-Metallic Carpet Plates for 640 and 840 Series

- Polycarbonate material
- Textured finish

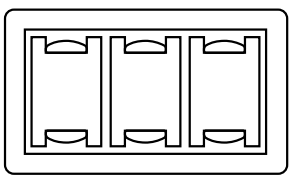


P-64P-CP Series



P-64P-2G-CP Series

| CAT. NO. | NUMBER OF GANGS | DESCRIPTION | FINISH | STD. CTN. |
|---|---|---|---|---|
| P64P-CP-BLK | 1 | Single-Gang Carpet Plate | Black | 4 |
| P64P-CP-GRY | 1 | Single-Gang Carpet Plate | Gray | 4 |
| P64P-CP-BGE | 1 | Single-Gang Carpet Plate | Beige | 4 |
| P64P-2G-CP-BLK | 2 | Two-Gang Carpet Plate | Black | 4 |
| P64P-2G-CP-GRY | 2 | Single-Gang Carpet Plate | Gray | 4 |
| P64P-2G-CP-BGE | 2 | Two-Gang Carpet Plate | Beige | 4 |
| P64P-3G-CP-BLK | 3 | Three-Gang Carpet Plate | Black | 4 |
| P64P-3G-CP-GRY | 3 | Three-Gang Carpet Plate | Gray | 4 |
| P64P-3G-CP-BGE | 3 | Three-Gang Carpet Plate | Beige | 4 |



P-64P-3G-CP Series



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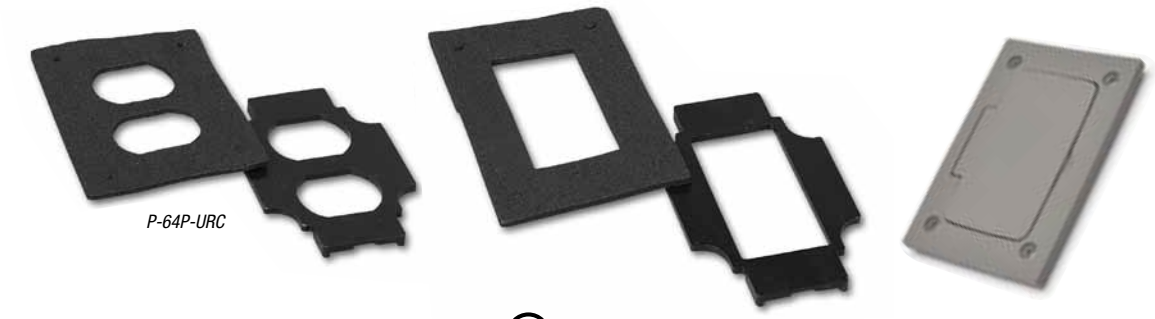
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# Flush Service Floor Boxes



## MopTite® Non-Metallic Covers for 640 and 840 Series



*P-64P-URC*

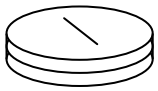
| CAT. NO. | DESCRIPTION | COLOR | STD. CTN. |
|---|---|---|---|
| **P64P-URC-BLK** | Universal Cover | Black | 4 |
| **P64P-URC-GRY** | Universal Cover | Gray | 4 |
| **P64P-URC-BGE** | Universal Cover | Beige | 4 |
| **P64P-BP-BLK** | Blank Cover | Black | 4 |
| **P64P-BP-GRY** | Blank Cover | Gray | 4 |
| **P64P-BP-BGE** | Blank Cover | Beige | 4 |

*New MopTite® Covers exceed UL® scrubwater exclusion requirements.*

## Floor Plate Plug Inserts

| CAT. NO. | SIZE OR DESCRIPTION | STD. CTN. |
|---|---|---|
| **690-SC** | ½"–14 NPS Thread | 4 |
| **691-SC** | ¾"–14 NPS Thread | 4 |
| **692-SC** | 1"–11½" NPS Thread | 4 |
| **693-SC** | 1¼"–11½" NPS Tthread | 4 |
| **694** | 2"–20 UN Thread | 4 |
| **695** | ½"–2" | 4 |
| **696-SC** | ¾"–2" | 4 |
| **697** | 2⅝"–20 UN 2A Thread | 4 |
| **698** | 1⁷⁄₁₆" for Duplex P-60-DU | 4 |

*For standard plug inserts ½" through 2", see* ***page A-155****. Catalog numbers are for brass. For aluminum, add AL after catalog number.*



*692*



*695*

## Gaskets for Floor Plate Assemblies

| CAT. NO. | FOR USE WITH | STD. CTN |
|---|---|---|
| **SP650** | P-64 Series Floor Plate Assemblies | 4 |
| **SP651** | P-64-DU Floor Plate Assemblies | 10 |
| **SP-P64-DS-P2** | P-64-DS Floor Plate Assembly | 4 |

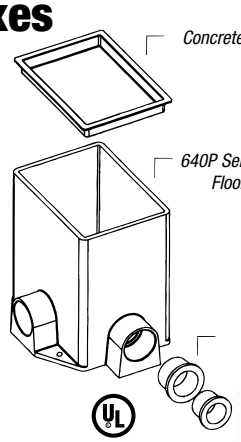


## Flush Service Floor Boxes

# Multiple-Gang Floor Boxes for Power and Communications.

## 640P Series Non-Metallic Floor Boxes

- Significant savings over metal boxes
- Die-cast adjusting ring with unique "snap-on" feature which eliminates gluing
- Reduced installation time; no leveling required
- Compatibility with standard-schedule PVC conduit; 1", ¾" and ½"
- Removable adjusting ring accepts wide variety of service accessories
- One-piece housing unit with premolded conduit holes
- Molded from a high-grade polymer material which is fully compatible with standard-schedule PVC conduit
- 640P Series Floor Boxes utilize both plastic and brass carpet (P64 series) plates and covers
- Available in one-, two- and three-gang versions. Two- and three-gang boxes provided with partitions in corresponding activation kits
- Min. concrete pour 2½"





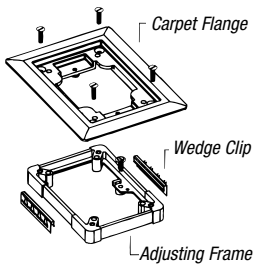

| CAT. NO. | DESCRIPTION | DIMENSIONS (IN.) LENGTH | WIDTH | HEIGHT | MAX. VOLUME | STD. CTN. |
|---|---|---|---|---|---|---|
| **641P** | One-Gang Box | 4 | 5⅜ | 6 | 85.0 cu. in. | 1 |
| **642P** | Two-Gang Box | 7 | 5⅜ | 6 | 85.5 cu. in.* | 1 |
| **643P** | Three-Gang Box | 10⅜ | 5⅜ | 6 | 85.5 cu. in.* | 1 |

** Per gang.*

### Carpet Activations for 640P Series

| CAT. NO. | DESCRIPTION | FINISH | STD. CTN. |
|---|---|---|---|
| ***Carpet Activations for 640 Series*** | | | |
| **641P-CACA** | One-Gang Carpet Trim | Aluminum | 4 |
| **641P-CACB** | One-Gang Carpet Trim | Brass | 4 |
| **641P-CAC-BGE** | One-Gang Carpet Trim | Non-Metallic Beige | 4 |
| **641P-CAC-BLK** | One-Gang Carpet Trim | Non-Metallic Black | 4 |
| **641P-CAC-GRY** | One-Gang Carpet Trim | Non-Metallic Gray | 4 |
| **642P-CACA** | Two-Gang Carpet Trim | Aluminum | 4 |
| **642P-CACB** | Two-Gang Carpet Trim | Brass | 4 |
| **642P-CAC-BGE** | Two-Gang Carpet Trim | Non-Metallic Beige | 4 |

| CAT. NO. | DESCRIPTION | FINISH | STD. CTN. |
|---|---|---|---|
| ***Carpet Activations for 640 Series*** | | | |
| **642P-CAC-BLK** | Two-Gang Carpet Trim | Non-Metallic Black | 4 |
| **642P-CAC-GRY** | Two-Gang Carpet Trim | Non-Metallic Gray | 4 |
| **643P-CACA** | Three-Gang Carpet Trim | Aluminum | 4 |
| **643P-CACB** | Three-Gang Carpet Trim | Brass | 4 |
| **643P-CAC-BGE** | Three-Gang Carpet Trim | Non-Metallic Beige | 4 |
| **643P-CAC-BLK** | Three-Gang Carpet Trim | Non-Metallic Black | 4 |
| **643P-CAC-GRY** | Three-Gang Carpet Trim | Non-Metallic Gray | 4 |

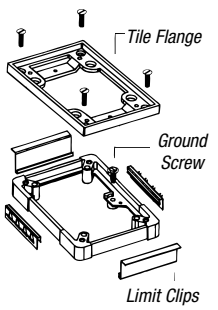



**Carpet Activation Kit**

### Tile Activations for 640P Series

| CAT. NO. | DESCRIPTION | FINISH | STD. CTN. |
|---|---|---|---|
| ***Tile Activations for 640 Series*** | | | |
| **641P-TACA** | One-Gang Tile Trim | Aluminum | 4 |
| **641P-TACB** | One-Gang Tile Trim | Brass | 4 |
| **641P-TAC-BGE** | Non-Metallic | Beige | 4 |
| **641P-TAC-BLK** | Non-Metallic | Black | 4 |
| **641P-TAC-GRY** | Non-Metallic | Gray | 4 |
| **642P-TACA** | Two-Gang Tile Trim | Aluminum | 4 |
| **642P-TACB** | Two-Gang Tile Trim | Brass | 4 |
| **642P-TAC-BGE** | Non-Metallic | Beige | 4 |

| CAT. NO. | DESCRIPTION | FINISH | STD. CTN. |
|---|---|---|---|
| ***Tile Activations for 640 Series*** | | | |
| **642P-TAC-BLK** | Non-Metallic | Black | 4 |
| **642P-TAC-GRY** | Non-Metallic | Gray | 4 |
| **643P-TACA** | Three-Gang Tile Trim | Aluminum | 4 |
| **643P-TACB** | Three-Gang Tile Trim | Brass | 4 |
| **643P-TAC-BGE** | Non-Metallic | Beige | 4 |
| **643P-TAC-BLK** | Non-Metallic | Black | 4 |
| **643P-TAC-GRY** | Non-Metallic | Gray | 4 |




**Tile Activation Kit**



Thomas&Betts

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Tel: 888.862.3289

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# Flush Service Floor Boxes



## MopTite® Cover Plates for 640 Series

| CAT. NO. | DESCRIPTION | FINISH | STD. CTN. |
|---|---|---|---|
| P-64-1/2 | Cover Plate ½" NPS Plug | Brass | 4 |
| P-64-1/2-AL | Cover Plate ½" NPS Plug | Aluminum | 4 |
| P-64-3/4 | Cover Plate ¾" NPS Plug | Brass | 4 |
| P-64-3/4-AL | Cover Plate ¾" NPS Plug | Aluminum | 4 |
| P-64-1 | Cover Plate 1" NPS Plug | Brass | 4 |
| P-64-1-AL | Cover Plate 1" NPS Plug | Aluminum | 4 |
| P-64-1-1/4 | Cover Plate 1¼" NPS Plug | Brass | 4 |
| P-64-1-1/4-AL | Cover Plate 1¼" NPS Plug | Aluminum | 4 |
| P-64-2 | Cover Plate 2" UN Plug | Brass | 4 |
| P-64-2-AL | Cover Plate 2" UN Plug | Aluminum | 4 |
| P-64-1/2-2 | Cover Plate ½" & 2" UN Plug | Brass | 4 |
| P-64-1/2-2-AL | Cover Plate ½" & 2" UN Plug | Aluminum | 4 |
| P-64-3/4-2 | Cover Plate ¾" & 2" UN Plug | Brass | 4 |
| P-64-3/4-2-AL | Cover Plate ¾" & 2" UN Plug | Aluminum | 4 |
| P-64-2-5/8 | Cover Plate 2⅝" UN Plug | Brass | 4 |
| P-64-2-5/8-AL | Cover Plate 2⅝" UN Plug | Aluminum | 4 |
| P-64-DU | Cover Plate Duplex 1⁷⁄₁₆" Plugs | Brass | 4 |
| P-64-DU-AL | Cover Plate Duplex 1⁷⁄₁₆" Plugs | Aluminum | 4 |
| P-64-DS | Cover Plate Duplex Lift Lids | Brass | 4 |
| P-64-DS-AL | Cover Plate Duplex Lift Lids | Aluminum | 4 |
| P-64-GFCI | Cover Plate GFCI Flip Lid | Brass | 4 |
| P-64-GFCI-AL | Cover Plate GFCI Flip Lid | Aluminum | 4 |

*New MopTite® Covers exceed UL® Scrubwater exclusion requirements.*

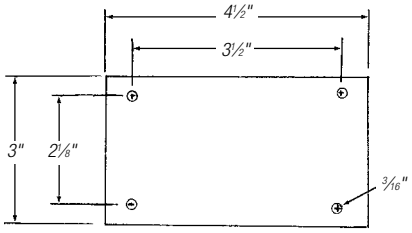
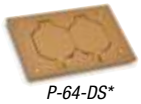


*Plate Dimensions*

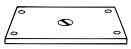

*P-64-3/4-2**
*¾" & 2" dia. plug*


*P-64-2-5/8**
*2⅝" dia. plug*


*P-64-DS**
*Duplex Lift lids*


*P-64-DU**
*Duplex 1⁷⁄₁₆" plugs*


*P-64-GFCI*

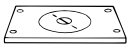

*P-64-1/2*
*½" N.P.S. plug*


*P-64-3/4*
*¾" N.P.S. plug*


*P-64-1*
*1" N.P.S. plug*


*P-64-1-1/4*
*1¼" N.P.S. plug*


*P-64-2**
*2" dia. plug*


*P-64-1/2-2**
*½" & 2" dia. plug*

**Also includes seating plate for receptacle like others.*

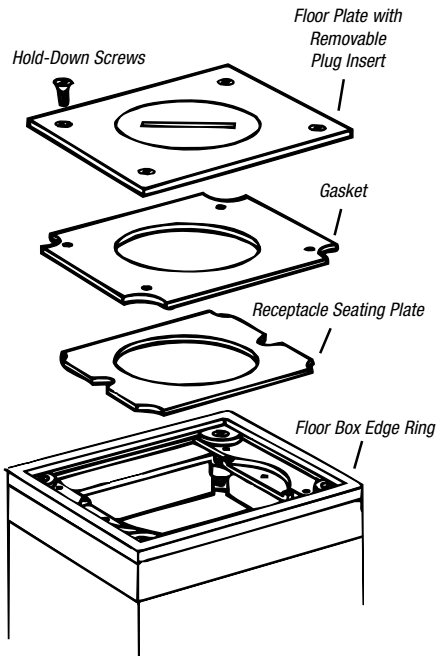
## MopTite® Non-Metallic Covers for 640P Series

- Polished-brass finish
- Furnished complete with sealing gasket and 8-32 x 7⁄16" brass screws
- 3" x 4½" outside dimension
- For brushed aluminum, add AL after catalog number
- All covers meet MopTite® requirements


*P-64P-URC*

| CAT. NO. | DESCRIPTION | COLOR | STD. CTN. |
|---|---|---|---|
| P64P-URC-BLK | Universal Cover | Black | 4 |
| P64P-URC-GRY | Universal Cover | Gray | 4 |
| P64P-URC-BGE | Universal Cover | Beige | 4 |
| P64P-BP-BLK | Blank Cover | Black | 4 |
| P64P-BP-GRY | Blank Cover | Gray | 4 |
| P64P-BP-BGE | Blank Cover | Beige | 4 |

*New MopTite® Covers exceed UL® scrubwater exclusion requirements.*



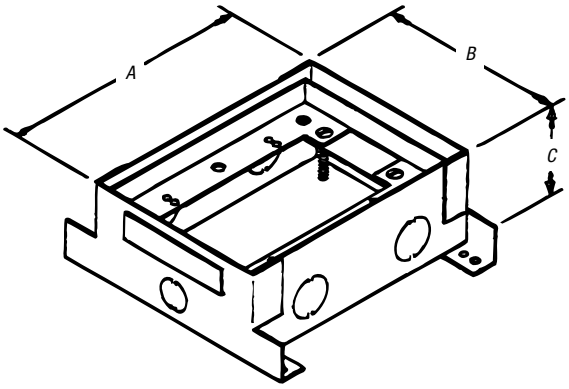
## Flush Service Floor Boxes

# Multiple-Gang Floor Boxes for Power and Communications: 740 Series



The new 740 Series line of stamped-steel floor boxes are an extension of T&B's industry-leading 640 and 840 series cast-iron floor boxes. The new boxes provide flush service for power, communications and data. Multiple-gang boxes allow the user to place high- and low-voltage in a single floor box. The 740 series can be used for carpet or tile applications.

- Available in shallow (2⅝") and deep (3⅝") versions
- UL Listed and CSA certified
- Available in one-, two- and three-gang versions
- Two- and three-gang boxes are supplied with customer-installed dividers
- 16 ga. pre-galvanized steel construction
- Adjustable with four exterior leveling legs capable of 2" pre-pour adjustment and an interior leveling ring capable of 1¼" after-pour adjustment
- Made with a variety of KOs ranging from ½" to 1¼"
- Boxes utilize the 640P series metallic and non-metallic floor box accessories with the unique one-step installation method
- Shipped with expendable steel cap to prevent ingress of concrete at installation




| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **741-S** | Shallow One-Gang Steel Floor Box for Concrete Construction | 4 |
| **742-S** | Shallow Two-Gang Steel Floor Box for Concrete Construction | 1 |
| **743-S** | Shallow Three-Gang Steel Floor Box for Concrete Construction | 1 |
| **741-D** | Deep One-Gang Steel Floor Box for Concrete Construction | 4 |
| **742-D** | Deep Two-Gang Steel Floor Box for Concrete Construction | 1 |
| **743-D** | Deep Three-Gang Steel Floor Box for Concrete Construction | 1 |

### Engineering Data for 740 Series

| CAT. NO. | DIMENSIONS (IN.) | | | ADJUSTMENT (IN.) | | CAPACITY PER GANG | CONDUIT KOS (IN.) | | |
|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | BEFORE POUR | AFTER POUR | | SIDES | ENDS | BOTTOM |
| **741-S** | 4 | 5½ | 2⅝ | 2 | 1½ | 29 cu. in. | (2) ¾ | (2) ½ | (1) ½ & (1) ¾ |
| **742-S** | 7¼ | 5½ | 2⅝ | 2 | 1½ | 26 cu. in. | (4) ¾ | (2) ½ | (2) ½ & (2) ¾ |
| **743-S** | 10¼ | 5½ | 2⅝ | 2 | 1½ | 26 cu. in. | (6) ¾ | (2) ½ | (3) ½ & (3) ¾ |
| **741-D** | 4 | 5½ | 3⅝ | 2 | 1½ | 48 cu. in. | (2) ¾ | (2) 1¼ | (1) ¾ & (1) ¾ |
| **742-D** | 7¼ | 5½ | 3⅝ | 2 | 1½ | 41 cu. in. | (4) ¾ | (2) 1¼ | (2) ½ & (2) ¾ |
| **743-D** | 10¼ | 5½ | 3⅝ | 2 | 1½ | 41 cu. in. | (6) ¾ | (2) 1¼ | (3) ½ & (3) ¾ |



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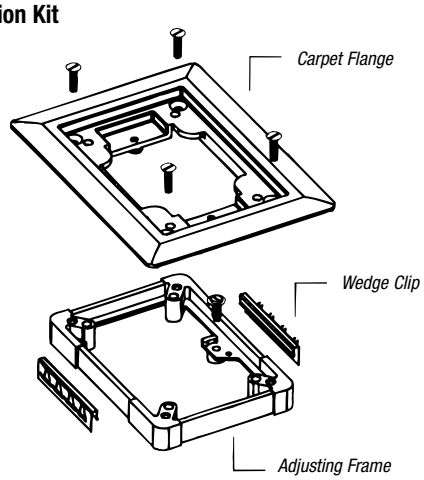
## Flush Service Floor Boxes

# Carpet and Tile Activations for 740 Series

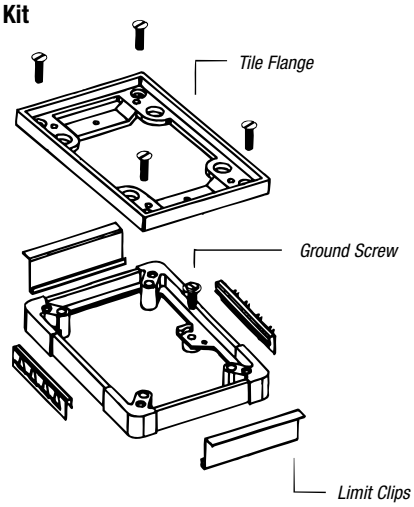


641P-CACB

### Carpet Activation Kit




### Tile Activation Kit

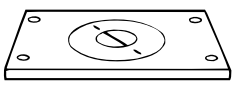



| CAT. NO. | DESCRIPTION | FINISH | STD. CTN. |
|---|---|---|---|
| *Carpet Activations for 740 Series* | | | |
| **641P-CACA** | One-Gang Carpet Trim | Aluminum | 4 |
| **641P-CACB** | One-Gang Carpet Trim | Brass | 4 |
| **641P-CAC-BGE** | One-Gang Carpet Trim | Non-Metallic Beige | 4 |
| **641P-CAC-BLK** | One-Gang Carpet Trim | Non-Metallic Black | 4 |
| **641P-CAC-GRY** | One-Gang Carpet Trim | Non-Metallic Gray | 4 |
| **642P-CACA** | Two-Gang Carpet Trim | Aluminum | 4 |
| **642P-CACB** | Two-Gang Carpet Trim | Brass | 4 |
| **642P-CAC-BGE** | Two-Gang Carpet Trim | Non-Metallic Beige | 4 |
| **642P-CAC-BLK** | Two-Gang Carpet Trim | Non-Metallic Black | 4 |
| **642P-CAC-GRY** | Two-Gang Carpet Trim | Non-Metallic Gray | 4 |
| **643P-CACA** | Three-Gang Carpet Trim | Aluminum | 4 |
| **643P-CACB** | Three-Gang Carpet Trim | Brass | 4 |
| **643P-CAC-BGE** | Three-Gang Carpet Trim | Non-Metallic Beige | 4 |
| **643P-CAC-BLK** | Three-Gang Carpet Trim | Non-Metallic Black | 4 |
| **643P-CAC-GRY** | Three-Gang Carpet Trim | Non-Metallic Gray | 4 |

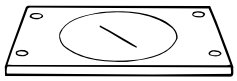
| CAT. NO. | DESCRIPTION | FINISH | STD. CTN. |
|---|---|---|---|
| *Tile Activations for 740 Series* | | | |
| **641P-TACA** | One-Gang Tile Trim | Aluminum | 4 |
| **641P-TACB** | One-Gang Tile Trim | Brass | 4 |
| **641P-TAC-BGE** | Non-Metallic | Beige | 4 |
| **641P-TAC-BLK** | Non-Metallic | Black | 4 |
| **641P-TAC-GRY** | Non-Metallic | Gray | 4 |
| **642P-TACA** | Two-Gang Tile Trim | Aluminum | 4 |
| **642P-TACB** | Two-Gang Tile Trim | Brass | 4 |
| **642P-TAC-BGE** | Non-Metallic | Beige | 4 |
| **642P-TAC-BLK** | Non-Metallic | Black | 4 |
| **642P-TAC-GRY** | Non-Metallic | Gray | 4 |
| **643P-TACA** | Three-Gang Tile Trim | Aluminum | 4 |
| **643P-TACB** | Three-Gang Tile Trim | Brass | 4 |
| **643P-TAC-BGE** | Non-Metallic | Beige | 4 |
| **643P-TAC-BLK** | Non-Metallic | Black | 4 |
| **643P-TAC-GRY** | Non-Metallic | Gray | 4 |

## Flush Service Floor Boxes

# MopTite® Cover Plates for 740 Series



*P-64-3/4-2**
*¾" & 2" dia. plug*



*P-64-2-5/8**
*2⅝" dia. plug*



*P-64-DS**
*Duplex Lift lids*

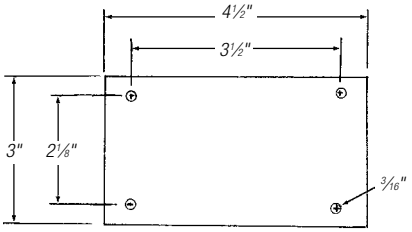


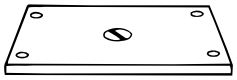

*Plate Dimensions*



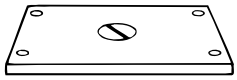
*P-64-DU**
*Duplex 1⁷⁄₁₆" plugs*



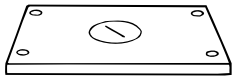
*P-64-GFCI*



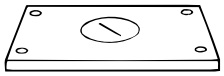
*P-64-1/2*
*½" N.P.S. plug*



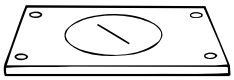
*P-64-3/4*
*¾" N.P.S. plug*



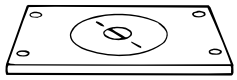
*P-64-1*
*1" N.P.S. plug*



*P-64-1-1/4*
*1¼" N.P.S. plug*



*P-64-2**
*2" dia. plug*



*P-64-1/2-2**
*½" & 2" dia. plug*

**Also includes seating plate for receptacle like others.*

| CAT. NO. | DESCRIPTION | FINISH | STD. CTN. |
|---|---|---|---|
| **P-64-1/2** | Cover Plate ½" NPS Plug | Brass | 4 |
| **P-64-1/2-AL** | Cover Plate ½" NPS Plug | Aluminum | 4 |
| **P-64-3/4** | Cover Plate ¾" NPS Plug | Brass | 4 |
| **P-64-3/4-AL** | Cover Plate ¾" NPS Plug | Aluminum | 4 |
| **P-64-1** | Cover Plate 1" NPS Plug | Brass | 4 |
| **P-64-1-AL** | Cover Plate 1" NPS Plug | Aluminum | 4 |
| **P-64-1-1/4** | Cover Plate 1¼" NPS Plug | Brass | 4 |
| **P-64-1-1/4-AL** | Cover Plate 1¼" NPS Plug | Aluminum | 4 |
| **P-64-2** | Cover Plate 2" UN Plug | Brass | 4 |
| **P-64-2-AL** | Cover Plate 2" UN Plug | Aluminum | 4 |
| **P-64-1/2-2** | Cover Plate ½" & 2" UN Plug | Brass | 4 |
| **P-64-1/2-2-AL** | Cover Plate ½" & 2" UN Plug | Aluminum | 4 |
| **P-64-3/4-2** | Cover Plate ¾" & 2" UN Plug | Brass | 4 |
| **P-64-3/4-2-AL** | Cover Plate ¾" & 2" UN Plug | Aluminum | 4 |
| **P-64-2-5/8** | Cover Plate 2⅝" UN Plug | Brass | 4 |
| **P-64-2-5/8-AL** | Cover Plate 2⅝" UN Plug | Aluminum | 4 |
| **P-64-DU** | Cover Plate Duplex 1⁷⁄₁₆" Plugs | Brass | 4 |
| **P-64-DU-AL** | Cover Plate Duplex 1⁷⁄₁₆" Plugs | Aluminum | 4 |
| **P-64-DS** | Cover Plate Duplex Lift Lids | Brass | 4 |
| **P-64-DS-AL** | Cover Plate Duplex Lift Lids | Aluminum | 4 |
| **P-64-GFCI** | Cover Plate GFCI Flip Lid | Brass | 4 |
| **P-64-GFCI-AL** | Cover Plate GFCI Flip Lid | Aluminum | 4 |

*New MopTite® Covers exceed UL® scrubwater exclusion requirements.*



Thomas&Betts

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**Technical Services**
Tel: 888.862.3289

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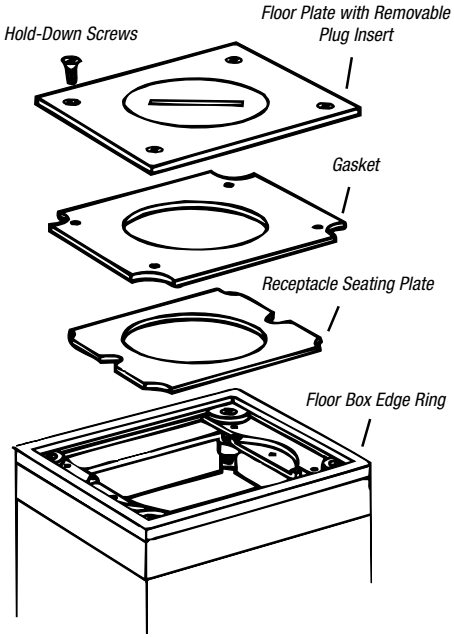
## Flush Service Floor Boxes

# MopTite® Non-Metallic Cover Plates for 740 Series

- Polished-brass finish
- Furnished complete with sealing gasket and 8-32 x 7/16" brass screws
- 3" x 4½" outside dimension
- For brushed aluminum, add AL after catalog number
- All covers meet MopTite® requirements



*P-64P-URC*




| CAT. NO. | DESCRIPTION | FINISH | STD. CTN. |
|---|---|---|---|
| **P64P-URC-BLK** | Universal Cover | Black | 4 |
| **P64P-URC-GRY** | Universal Cover | Gray | 4 |
| **P64P-URC-BGE** | Universal Cover | Beige | 4 |
| **P64P-BP-BLK** | Blank Cover | Black | 4 |
| **P64P-BP-GRY** | Blank Cover | Gray | 4 |
| **P64P-BP-BGE** | Blank Cover | Beige | 4 |

*New MopTite® Covers exceed UL® scrubwater exclusion requirements.*

## Flush Service Floor Boxes

# Single-Gang Residential Floor Box Kit for Wood Floors.

## Steel City® Single-Gang Residential Floor Box Kit

Tired of tripping over extension cords? Look no further than the Steel City® Single-Gang Residential Floor Box Kit from Thomas & Betts. This affordable and conveniently packaged kit for the residential market provides power right where you need it most.

- Kit includes switch box, cover, flange and receptacle
- Durable metallic covers and flanges are available in aesthetic brass or nickel finishes
- Available with duplex or GFCI receptacle
- MopTite® covers meet UL® scrubwater requirements for wood, tile and carpet
- 3" x 2" Switch Box is 3½" deep with 18 cu. in. capacity
- Box includes integral non-metallic sheathed cable clamps



NEW!



*Brass finish with duplex receptacle.*



*Nickel finish with GFCI receptacle.*

### Specifications

- Material: Box — Galvanized Steel
  Cover — Brass or Nickel plated
  Aluminum Flange — Die-cast Zinc with Brass or Nickel finish
- Listing: UL® and CSA Listed

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| 71W-DS | 1-Gang Residential Floor Box — Duplex Recp., Brass Finish | 4 |
| 71W-DS-N | 1-Gang Residential Floor Box — Duplex Recp., Nickel Finish | 4 |
| 71W-GFCI | 1-Gang Residential Floor Box — GFCI Recp., Brass Finish | 4 |
| 71W-GFCI-N | 1-Gang Residential Floor Box — GFCI Recp., Nickel Finish | 4 |



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Fax: 901.252.1354

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Tel: 888.862.3289

www.tnb.com

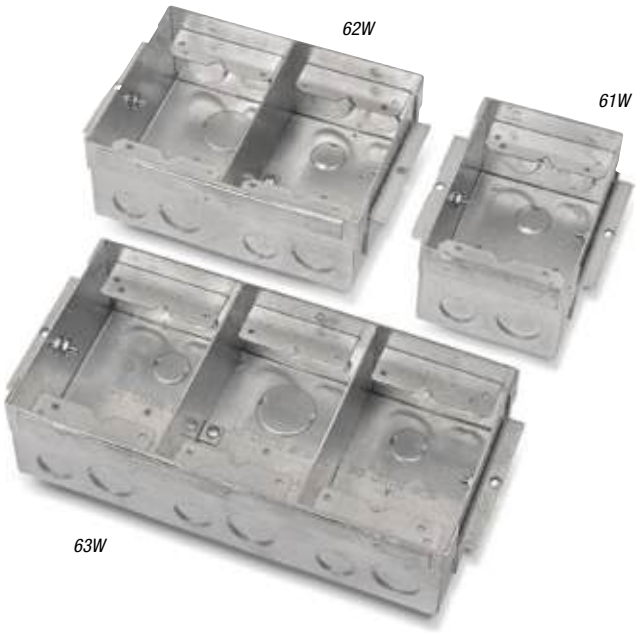
## Flush Service Floor Boxes

# For Wood Subfloors!

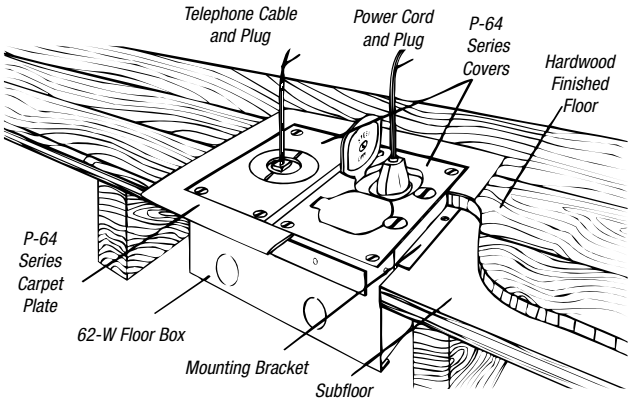
# 60W Series Floor Boxes

Steel City® 60W Series Floor Boxes provide single- and multi-gang solutions for wood subfloor applications.

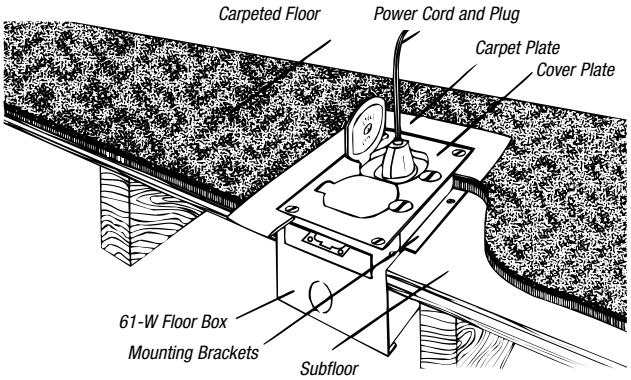
- **NEW!** Three-gang configuration for high-capacity, multi-service installations
- **NEW!** Larger KOs (¾" and 1") have been added to each gang for application flexibility
- Adjustable mounting brackets allow for various finished floor-material heights (hardwoods, tile or carpet)
- Ideal for open-layout residential applications, school auditoriums or commercial office space
- Voltage dividers are included with multi-gang boxes to accommodate power, voice and data services in the same floor box
- Full range of metallic and non-metallic cover and flange options



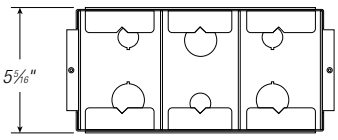

### New Construction (New Work) Applications

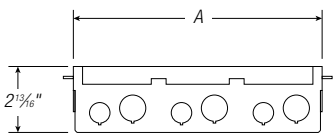



### Retrofit Construction (Old Work) Application




| CAT. NO. | | DIMENSION | A (IN.) | CAPACITY | STD. CTN. |
|---|---|---|---|---|---|
| **61W** | | 1-Gang Floor Box for Wood Subfloors 3 1⁄16" Ends: (2) ½", (2) ¾" Bottom: (1) ½", (1) 1" | 3 1⁄16 | 31 cu. in. | 1 |
| **62W** | | 2-Gang Floor Box for Wood Subfloors 7 1⁄16" Ends: (4) ½", (4) ¾" Bottom: (2) ½", (2) 1" | 7 1⁄16 | 60 cu. in. | 1 |
| **63W** | **NEW!** | 3-Gang Floor Box for Wood Subfloors 10¼" Ends: (6) ½", (6) ¾" Bottom: (3) ½", (3) 1" | 10¼ | 90 cu in. | 1 |



## Above-Floor Service Fittings

# Steel City® Service Fittings Provide Above-Floor Service for Power, Communications and Data.

## Service Fittings for Power

### SFH-40 Series

- Brushed-aluminum finish
- Low-profile design
- Furnished with 1" conduit nipple

### SFH-50 Series

- Brushed-aluminum finish
- Interchangeable face plates
- Furnished with 1" conduit nipple for direct screw-threading into a floor box plate with 1" cover opening

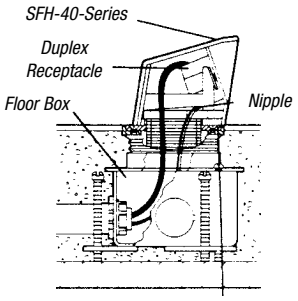


*SFH-40-RG*

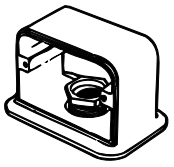


*SFH-50-2RG*

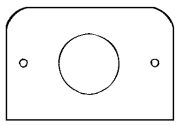
| CAT. NO. | DESCRIPTION | FINISH | DIMENSIONS (IN.) W | D | H | STD. CTN. |
|---|---|---|---|---|---|---|
| **SFH-40-RG** | Furnished with One 15-Amp, 125-Volt, 3-Wire NEMA Duplex Receptacle | Brushed Aluminum | 4⅜ | 3 | 2⅝ | 4 |
| **SFH-40** | Same as SFH-40-RG Above, Less Duplex Receptacle | Brushed Aluminum | 4⅜ | 3 | 2⅝ | 4 |
| **SFH-50-2RG** | Furnished with Two Back-to-Back 15-Amp, 125-Volt, 3-Wire NEMA Duplex Receptacles | Brushed Aluminum | 5 | 3⅜ | 3 | 4 |
| **SFH-50** | Same as SFH-50-2RG, Less Duplex Receptacles | Brushed Aluminum | 5 | 3⅜ | 3 | 4 |
| **SFH-51** | Furnished with Cover Plate to Accommodate One 30- or 50-Amp, 240-Volt, 3-Wire Receptacle and Blank Cover | Brushed Aluminum | 5 | 3⅜ | 3 | 4 |



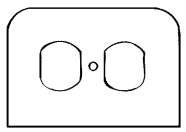

*P-90-1 Cover Plate*



*SFH-50-Base*



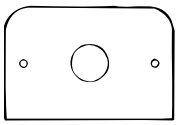
*SFH-51-COVER*
*Single Receptacle Plate, 2.16" Hole*



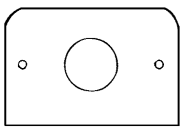
*SFH-50-DUPCOV*
*Duplex Receptacle Plate*



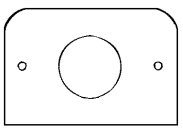
*SFH-50-BLCOV*
*Blank Plate*



*SFH-50-TELECOV*
*Telephone Plate, 1" Hole*



*SFH-50-CVW11332*
*Single Receptacle Plate, 1.39" Hole*



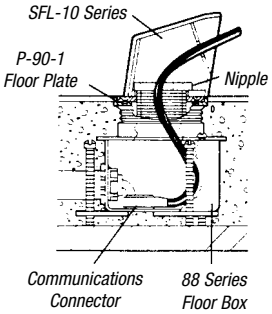
*SFH-50-CVW11932*
*Single Receptacle Plate, 1.60" Hole*

## Service Fittings for Communications and Data

- Brushed-aluminum finish
- Low-profile design
- Furnished with 1" conduit nipple

| CAT. NO. | DESCRIPTION | FINISH | DIMENSIONS (IN.) W | D | H | STD. CTN. |
|---|---|---|---|---|---|---|
| **SFL-10** | ¾" x 1⅛" Bushed Opening for Telephone or Computer | Brushed Aluminum | 4⅜ | 3⅛ | 2⅝ | 4 |

### Sample Application






*SFL-10*



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# 68, 600, 640, 740 and 840 Series — 1-, 2-, 3-Gang

## Floor Plate Plug Inserts



692

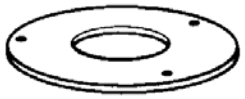


695

| CAT. NO. | SIZE OR DESCRIPTION | STD. CTN. |
|---|---|---|
| **690-SC** | ½"–14" NPS Thread | 4 |
| **691-SC** | ¾"–14" NPS Thread | 4 |
| **692-SC** | 1"–11½" NPS Thread | 4 |
| **693-SC** | 1¼"–11½" NPS Thread | 4 |
| **694** | 2"–20" UN Thread | 4 |
| **695** | ½"–2" | 4 |
| **696-SC** | ¾"–2" | 4 |
| **697** | 2⅝"–20" UN 2A Thread | 4 |
| **698** | 1 7/16" for Duplex P-60-DU | 4 |

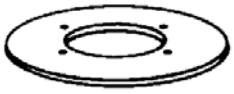
*For standard plug inserts ½" through 2", see* ***page A-155.***
*Catalog numbers are for brass.*
*For aluminum, add AL after catalog number.*
*2⅝"–20" UN 2A thread.*

## Gaskets for Floor Plate Assemblies



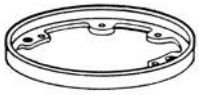
| CAT. NO. | DESCRIPTION FOR USE WITH: | STD. CTN. |
|---|---|---|
| **630-SC** | P-60 Series Floor Plate Assemblies | 4 |
| **631** | (except duplex) P-60-DR, P-60-DU, P-60-DC-AL Floor Plate Assemblies | 4 |
| **SP-60-DS-P3** | P-60-DS Floor Plate Assembly | 1 |

## Seating Plates for Receptacles — Steel



| CAT. NO. | DESCRIPTION FOR USE WITH: | STD. CTN. |
|---|---|---|
| **SP-620-MA** | P-60-2, P-60-1/2-2, P-60-3/4-2 Floor Plate Assemblies | 1 |
| **SP-621** | P-60-DR, P-60-DU, P-60-DC-AL and P-60-DS Floor Plate Assemblies | 1 |

## Tile Trims



| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **600-4-FL-AL** | Aluminum | 4 |
| **600-4-FL** | Brass | 4 |

## Gaskets for Floor Plate Assemblies



| CAT. NO. | DESCRIPTION FOR USE WITH: | STD. CTN. |
|---|---|---|
| **SP650** | P-64 Series Floor Plate Assemblies | 4 |
| **SP651** | P-64-DU Floor Plate Assemblies | 10 |
| **SPP-64-DS-P2** | P-64-DS Floor Plate Assemblies | 4 |

## Seating Plates for Receptacles — Steel



| CAT. NO. | DESCRIPTION FOR USE WITH: | STD. CTN. |
|---|---|---|
| 640 | P-64-2, P-64-1/2-2, P-64-3/4-2 Floor Plate Assemblies | 4 |
| 639 | P-64-2-5/8 Floor Plate Assemblies | 1 |
| 638 | P-64-DS and P-64-DU Floor Plate Assemblies | 2⅝–20 UN 2A Thread |

## Floor Plate Plug Inserts



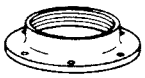
| CAT. NO. | DESCRIPTION FOR USE WITH: | STD. CTN. |
|---|---|---|
| **697** | 2⅝" | 4 |
| **698** | 1 7/16" for Duplex P-64-DU | 4 |

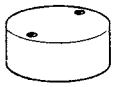
*For standard plug inserts ½" through 2", see* ***page A-155****. Catalog numbers are for brass.*
*For aluminum, add AL after catalog number.*

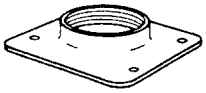
# Replacement Parts and Accessories

## For 78, 88 and 98, 671 or 672 Series Floor Box Body Parts


8805

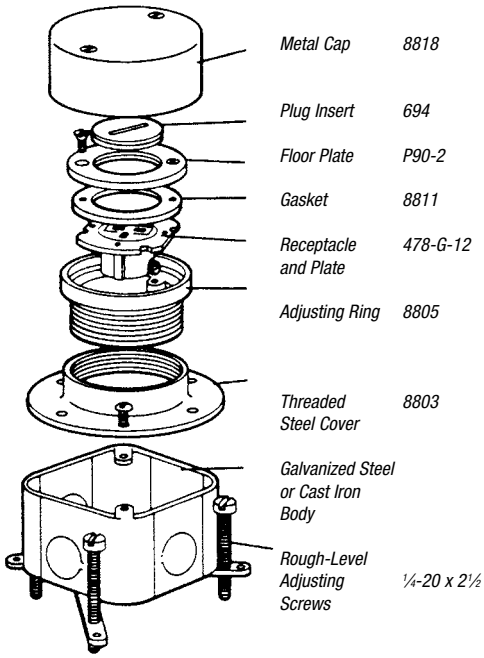

8803


8818


9803

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| 8805 | Brass Adjusting Ring | 4 |
| 8803 | Threaded Steel Body Cover of 78 and 88 Series | 4 |
| 8818 | Metal Protective Cap | 4 |
| 9803 | Threaded Steel Body Cover for 98 Series | 4 |

*2⅝"–20" UN 2A Thread.*



*Floor Box Assembly with Floor Plate*

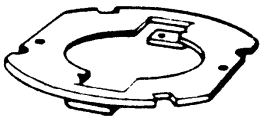
## Gasket for Floor Plate Assembly



| CAT. NO. | FOR USE WITH: | STD. CTN. |
|---|---|---|
| 8811 | P-90 Series Floor Plates | 4 |

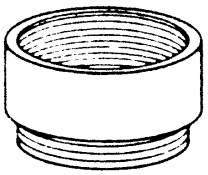
## Plate for Short Strap Receptacle

| CAT. NO. | FOR USE WITH: | STD. CTN. |
|---|---|---|
| 889 | Series 78, 88, 98, 671, 672 Boxes | 4 |



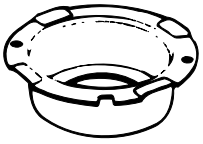
## Extension Collar

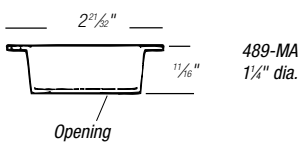
| CAT. NO. | FOR USE WITH: | STD. CTN. |
|---|---|---|
| 8805-E | Provides an Extension of Floor Box Throat Upwards 1⅛"; for Extreme Depths (7 cu. in.) 2⅝–20 UN 2A Thread | 4 |



## Microphone Adapter for Floor Boxes

| CAT. NO. | FOR USE WITH: | STD. CTN. |
|---|---|---|
| 489-MA | 27-ga. Galvanized Steel with 1¼" Dia. Opening for Standard Microphone Jacks: for Steel City® Floor Box Series 78, 88, 98 and 671 | 4 |





*489-MA 1¼" dia.*



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# Capacity, Durability, Flexibility — Everything You've Been Looking for in a Poke Through.















## Fire-Rated Poke Through Systems

### Flush Power & Communications

**FPT4 Series**

- Maximum capacity and flexibility for flush-mounted power and communications devices, including the popular "4 x 4" configuration (4 power outlets, 4 communications devices)
- Core Drill Size: 4"

**FPT3 Series**

- Accommodates 1 duplex receptacle and 2 data jacks
- Cord Drill Size: 3"

**FPT Flush Series**

- Accepts 1 duplex receptacle
- Core Drill Size: 3"

### Furniture Feed

**FFPT4 Series**

- 2 Conduit Hubs: ¾" for power and 1¼" for communications
- Core Drill Size: 4"

**FFPT3 Series**

- Concentric 2" and 1¼" Hub for power or communications
- Core Drill Size: 3"

**FPT Furniture Feed Series**

- 3 Conduit Hubs: (2) ½" and (1) ¾" for power and communications
- Core Drill Size: 3"

### Above Floor Pedestals

**FPT Above-Floor Pedestals**

- Available in 2 compartment and 4 compartment for power and communications
- Core Drill Size: 3"

## Poke Through Systems

# FPT4 Series

The FPT4 Series provides everything you look for in a flush Poke Through — capacity, durability, flexibility, accessibility and aesthetics.

**Capacity:**

- Four standard configurations:
  - 4 power receptacles + 4 communications devices (4 x 4)
  - 2 power receptacles + 6 communications devices
  - 8 communications devices
  - 1 locking receptacle + 2 communications devices
- Core Drill Size: 4"

**Durability:**

- Solid brass or aluminum covers protect devices from damage and debris when not in use — no exposed plastic components
- Unique latching lid eliminates easily damaged, hard-to-use locking screws

**Accessibility:**

- Full access to communications compartment through the cover without exposing power compartments — even after it's installed in the floor
- "Straight-through" wiring of communications cabling for easy installation and changes

**Flexibility:**

- Configurable design to meet any project requirements:
  - 4 standard configurations for power and communications devices
  - 20A receptacles can be wired as isolated ground (orange labels provided)
  - Communications plates available to accommodate data jacks from many manufacturers
  - Accepts Extron MAAP plates for A/V components
- Threaded conduit hubs enable all communications cabling to be enclosed in a single conduit
  - Integral 1" hub on the 4 x 4 — no extra parts needed
  - Optional hubs available for other configurations
- Junction box features (5) ½" and (5) ¾" knockouts (27 cubic inch capacity)

**Aesthetics:**

- The only 4" core poke through for power and communications with the entire cover made of solid brass — features an aesthetic brushed finish
- Solid aluminum covers also available with brushed finish or powder-coated finishes in black, gray, brown and beige to match any décor — the most colors in the industry





*4 Power + 4 Communications,* ***page A-175****.*



*2 Power + 6 Communications,* ***page A-175****.*



*8 Communications,* ***page A-176****.*



*1 Locking Receptacle + 2 Communications,* ***page A-176****.*



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# Poke Through Systems

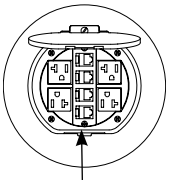


## Poke Through: 4 Power and 4 Communications

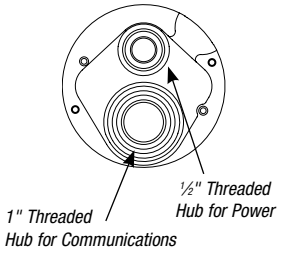
- Four 20A Receptacles, two circuits, six 12 AWG wires, prewired, pigtail ends in junction box (can be wired as isolated ground, labels provided)
- Keystone Communications Device Plate with four Keystone Category 5e Data Jacks — see **page A-177** for optional Communications Device Plates for Compartment A
- Integral 1" threaded conduit hub for communication wiring (cast iron)

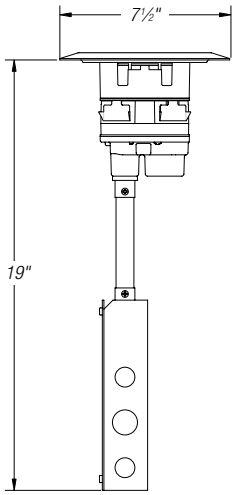
| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| FPT4-4P-4C-TBRS | Poke-Through Assembly: Base with Brass Cover | 1 |
| FPT4-4P-4C-TALM | Poke-Through Assembly: Base with Aluminum Cover | 1 |
| FPT4-4P-4C-TBLK | Poke-Through Assembly: Base with Black Cover | 1 |
| FPT4-4P-4C | Poke-Through Base (Cover Purchased Separately) | 1 |

**Device Layout**

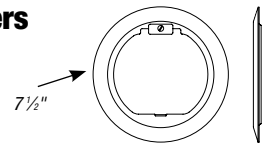



**Cable Entry**




## Poke Through Covers




| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| FPT4-CVR-TBRS | Cover, FPT4 Series Poke Through — Brushed Brass | 4 |
| FPT4-CVR-TALM | Cover, FPT4 Series Poke Through — Brushed Aluminum | 4 |
| FPT4-CVR-TBLK | Cover, FPT4 Series Poke Through — Aluminum with Black Powder Coat Finish | 4 |
| FPT4-CVR-TBGE | Cover, FPT4 Series Poke Through — Aluminum with Beige Powder Coat Finish | 4 |
| FPT4-CVR-TBRN | Cover, FPT4 Series Poke Through — Aluminum with Brown Powder Coat Finish | 4 |

*Forged solid brass and aluminum covers.*

*Latching lid closes easily without the need for locking screws.*



*Brass*



*Aluminum*



*Black*

## Poke Through: 2 Power and 6 Communications



*FPT4-CCH-6C Communications Conduit Hub (optional)*

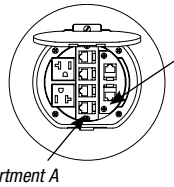
*1" Threaded Hub*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| FPT4-2P-6C | Poke-Through Base Unit only (cover purchased separately) | 1 |
| FPT4-CCH-6C | Optional 1" Threaded Conduit Hub for Communications Wiring (cast iron) | 1 |

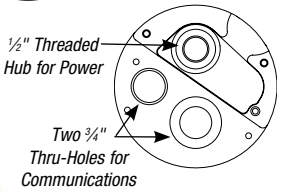
*Two 20A Receptacles, one circuit, three 12 AWG wires, prewired, pigtail ends in junction box (can be wired as isolated ground, labels provided).*

*Includes Keystone Communications Device Plates with six Keystone Category 5e Data Jacks — see **page A-177** for optional Communications Device Plates for Compartment A and Compartment B.*

**Device Layout**

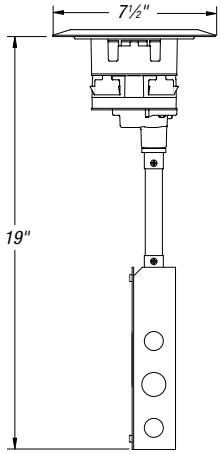


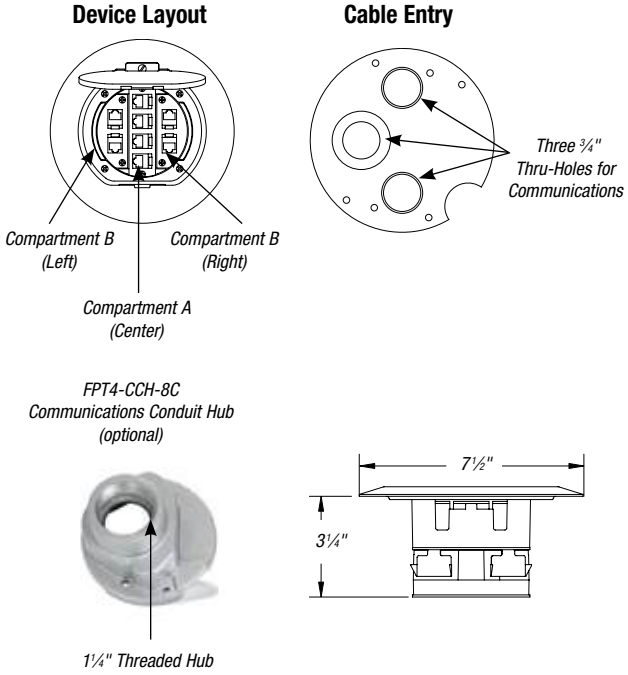

**Cable Entry**




*(Cover purchased separately)*








# FPT4 Series *(continued)*

## Poke Through: 8 Communications

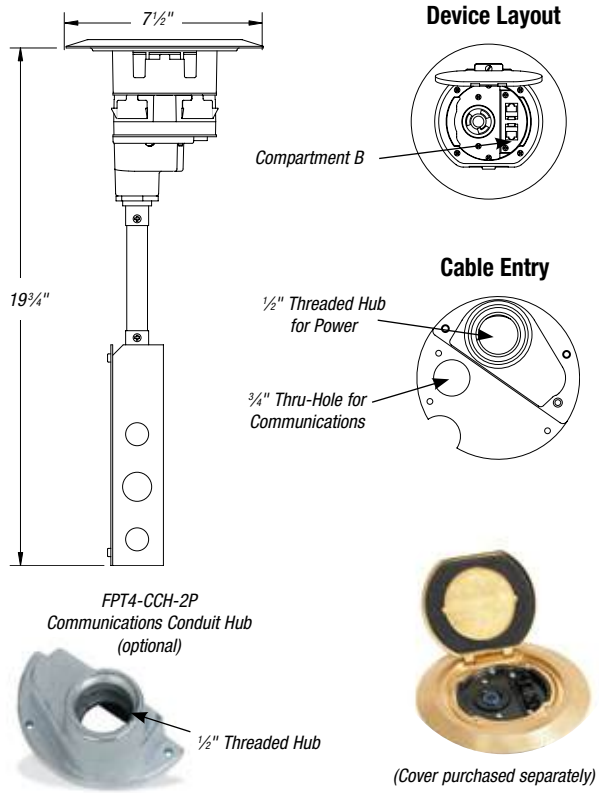
- Keystone Communications Device Plates with eight Keystone Category 5e Data Jacks — see **page A-177** for optional Communications Device Plates for Compartment A and Compartment B
- No junction box




| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FPT4-8C** | Poke-Through Base (Cover Purchased Separately) | 1 |
| **FPT4-CCH-8C** | Optional 1¼" Threaded Conduit Hub for Communications Wiring (Cast Iron) | 4 |

## Poke Through: 1 Locking Receptacle & 2 Communications

- 20A Receptacle: pre-wired, three 12 AWG wires, pigtail ends in junction box
- 30A Receptacle: pre-wired, three 10 AWG wires, pigtail ends in junction box
- Cover purchased separately
- Includes Keystone Communications Device Plates with two Keystone Category 5e Data Jacks — see **page A-177** for optional Communications Device Plates for Compartment B




| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FPT4-1TL21-2C** | Poke-Through Base, NEMA L5-20R, 20A/125V Locking Receptacle, 2 Communications Receptacles | 1 |
| **FPT4-1TL22-2C** | Poke-Through Base, NEMA L6-20R, 20A/250V Locking Receptacle, 2 Communications Receptacles | 1 |
| **FPT4-1TL31-2C** | Poke-Through Base, NEMA L5-30R, 30A/125V Locking Receptacle, 2 Communications Receptacles | 1 |
| **FPT4-1TL32-2C** | Poke-Through Base, NEMA L6-30R, 30A/250V Locking Receptacle, 2 Communications Receptacles | 1 |
| **FPT4-CCH-2P** | Optional ½" Threaded Conduit Hub for Communications Wiring (Cast Iron) | 4 |



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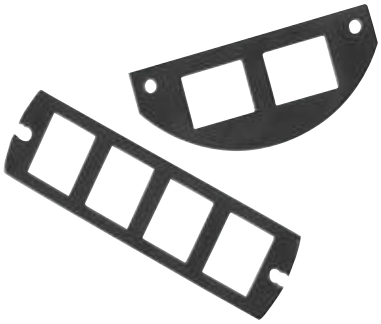
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## Optional Communications Device Plates

- Device Plate only — no jacks included



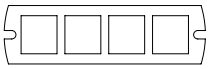
| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FPT4-CPA-4KEY** | For 4 Keystone Jacks — Compartment A* | 4 |
| **FPT4-CPA-4SYS** | For 4 Systemax® Jacks — Compartment A | 4 |
| **FPT4-CPA-3PAN** | For 3 Panduit Jacks — Compartment A** | 4 |
| **FPT4-CPA-1MAAP** | For Extron® MAAP Plate, Single Space — Compartment A | 4 |
| **FPT4-CPA-4ORT** | For 4 Ortronics® Jacks — Compartment A | 4 |
| **FPT4-CPA-BLANK** | Blank — Compartment A | 4 |
| **FPT4-CPB-2KEY** | For 4 Keystone Jacks — Compartment B* | 4 |
| **FPT4-CPB-2SYS** | For 4 Systemax® Jacks — Compartment B | 4 |
| **FPT4-CPB-2PAN** | For 2 Panduit Jacks — Compartment B** | 4 |
| **FPT4-CPB-1MAAP** | For Extron® MAAP Plate, Single Space — Compartment B | 4 |
| **FPT4-CPB-2ORT** | For 4 Ortronics® Jacks — Compartment B | 4 |
| **FPT4-CPB-BLANK** | Blank — Compartment B | 4 |
| **FPT4-CPAB-2MAAP** | For Extron® MAAP Plate, Double Space — Compartment A-B | 4 |

** Keystone plates also accept Leviton® and Hubbell® devices.*

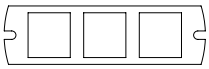
*** Requires CMNZABL-X adapter from Panduit® to mount Panduit® MiniCom jacks.*

**** For use with FTP4-2P-6C and FPT4-8C Series only; replaces one Compartment A plate and one Compartment B plate.*

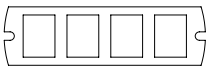
**Compartment A Plates**



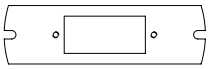
*FPT4-CPA-4SYS*



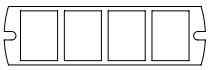
*FPT4-CPA-3PAN***



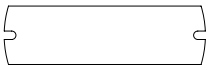
*FPT4-CPA-4KEY*



*FPT4-CPA-1MAAP*

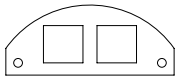


*FPT4-CPA-4ORT*

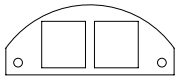


*FPT4-CPA-BLANK*

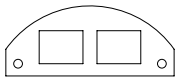
**Compartment B Plates**



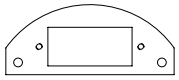
*FPT4-CPB-2SYS*



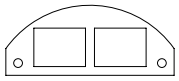
*FPT4-CPB-2PAN***



*FPT4-CPB-2KEY*



*FPT4-CPB-1MAAP*

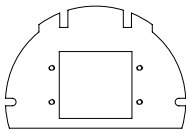


*FPT4-CPB-2ORT*



*FPT4-CPB-BLANK*

**Compartment A–B Plate *****



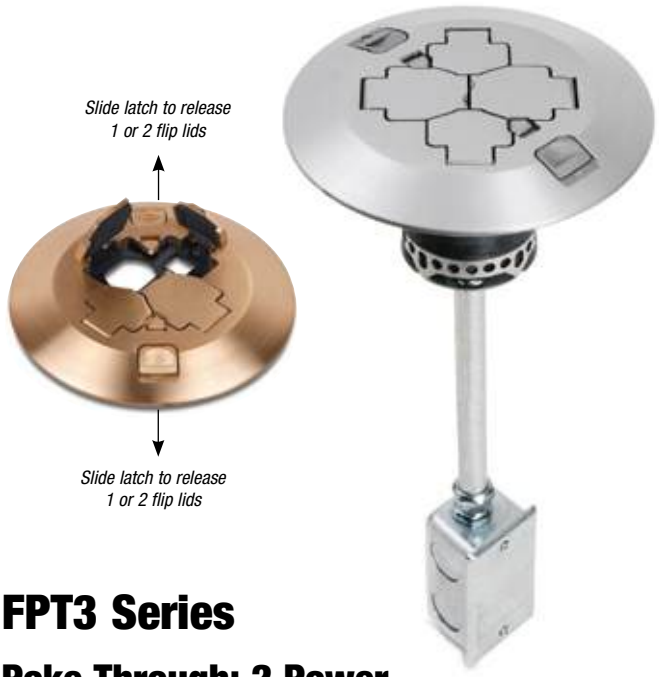
*FPT4-CPAB-2MAAP*

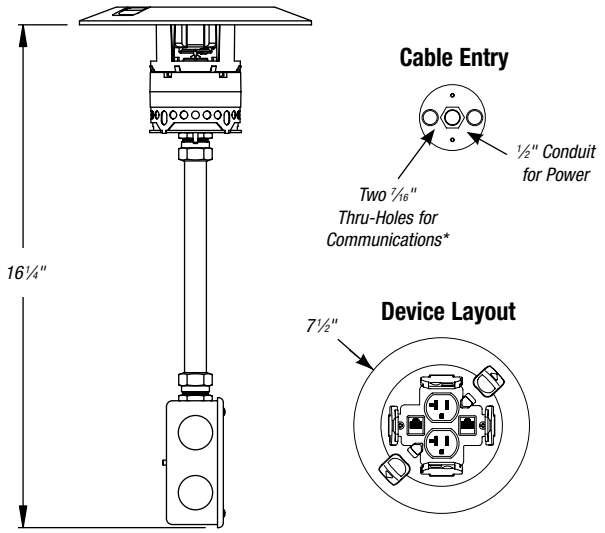
## Replacement Power Insert — 2 Receptacles

- For use with FPT4-4P-4C and FPT4-2P-6C Series Poke-Through Systems



| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FPT4-2P-RPL** | Replacement Power Insert with 18" Wire Whip — Two 20A Receptacles | 4 |




# FPT3 Series

## Poke Through: 2 Power and 2 Communications

This aesthetic, easy-to-use poke through provides an ideal power and data solution — great for new construction or upgrading existing 3" core installations.

- Capacity: 1 duplex receptacle and 2 data jacks (included)
- Core drill Size: 3"
- Durable solid brass or aluminum covers protect devices from damage and debris when not in use — no exposed plastic components
- Powder-coated aluminum covers are available in black, gray, brown and beige to match any décor — the most colors in the industry
- Brushed brass and aluminum finishes provide superior aesthetics
- Slide latches enable tool-less access to individual receptacles — eliminates the need for hard-to-use locking screws
- Accepts Keystone, Leviton® or Hubbell® data jacks
- Junction box features (3) ½" and (4) ¾" knockouts (13 cubic inch capacity)
- Includes (1) 20A duplex receptacle, pre-wired, pigtail ends in junction box
- Includes (2) Leviton® CAT5e data jacks

** If ½" EMT conduit stubs are required for communications cabling, use "City of Chicago" base unit, catalog # FPT3-2P-2C-C (see **page A-184**).*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FPT3-2P-2C-BRS** | FPT3 Series Poke-Through Assembly: Base Unit with Brushed-Brass Cover | 1 |
| **FPT3-2P-2C-ALM** | FPT3 Series Poke-Through Assembly: Base Unit with Brushed-Aluminum Cover | 1 |
| **FPT3-2P-2C-BLK** | FPT3 Series Poke-Through Assembly: Base Unit with Black Powder-Coat Cover | 1 |
| **FPT3-2P-2C** | FPT3 Series Poke-Through Base Unit Only: Cover Purchased Separately (see **below**) | 1 |

### Poke Through Covers

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FPT3-CVR-BRS** | Cover, FPT3 Series Poke Through — Solid Brass, Brushed Finish | 4 |
| **FPT3-CVR-ALM** | Cover, FPT3 Series Poke Through — Solid Aluminum, Brushed Finish | 4 |
| **FPT3-CVR-BLK** | Cover, FPT3 Series Poke Through — Aluminum with Black Powder-Coat Finish | 4 |
| **FPT3-CVR-GRY** | Cover, FPT3 Series Poke Through — Aluminum with Gray Powder-Coat Finish | 4 |
| **FPT3-CVR-BGE** | Cover, FPT3 Series Poke Through — Aluminum with Beige Powder-Coat Finish | 4 |
| **FPT3-CVR-BRN** | Cover, FPT3 Series Poke Through — Aluminum with Brown Powder-Coat Finish | 4 |

*See **page A-179** to view typical brushed metal and powder coat finishes.*



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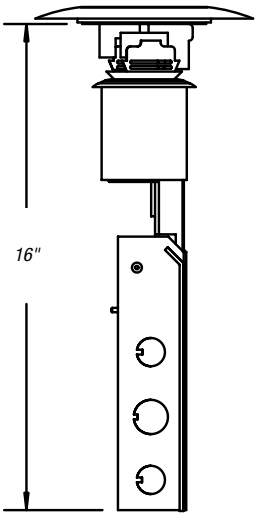
## Poke Through Systems

# FPT Flush Series

The Steel City® FPT Poke Through Series provides an economical solution for installing a duplex receptacle in an existing floor — right where you need it.

- Capacity: 1 duplex receptacle
- Core drill size: 3"
- Brushed brass and aluminum covers provide superior aesthetics and durability
- Non-metallic covers are available in black, gray, beige and brown
- Non-metallic covers include openings for 3 communications cables
- Integral junction box features (5) ½" and (5) ¾" knockouts (27 cubic inch capacity)
- Assembled units include (1) 20A duplex receptacle, pre-wired with pigtail ends in junction box

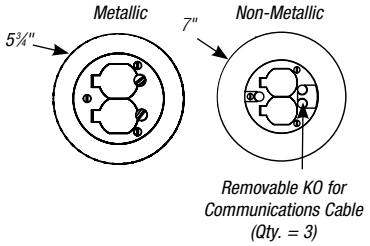




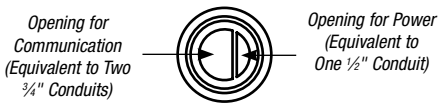

### Poke Through: 2 Power

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FPT-449** | FPT Flush Poke-Through Assembly: Base Unit with Solid-Brass Cover | 1 |
| **FPT-450** | FPT Flush Poke-Through Assembly: Base Unit with Solid-Aluminum Cover | 1 |
| **FPT-445-SW-BLK** | FPT Flush Poke-Through Assembly: Base Unit with Black Non-Metallic Cover | 1 |
| **FPT-445-SW-GRY** | FPT Flush Poke-Through Assembly: Base Unit with Gray Non-Metallic Cover | |
| **FPT-445-SW-BGE** | FPT Flush Poke-Through Assembly: Base Unit with Beige Non-Metallic Cover | 1 |
| **FPT-445-SW-BRN** | FPT Flush Poke-Through Assembly: Base Unit with Brown Non-Metallic Cover | 1 |
| **FPT-400B** | FPT Poke-Through Base Unit Only (no duplex): Cover Purchased Separately | 1 |

### Device Layout




### Cable Entry




# Poke-Through Covers

- Non-metallic covers feature 3 openings for communications cables

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FPT-CACP** | Solid Brass, Brushed Finish, 5¾" Diameter | 10 |
| **FPT-CACP-AL** | Solid Aluminum, Brushed Finish, 5¾" Diameter | 10 |
| **FPT-441-SW-BLK** | Black, Non-Metallic, 7" Diameter | 10 |
| **FPT-441-SW-GRY** | Gray, Non-Metallic, 7" Diameter | 10 |
| **FPT-441-SW-BGE** | Beige, Non-Metallic, 7" Diameter | 10 |
| **FPT-441-SW-BRN** | Brown, Non-Metallic, 7" Diameter | 10 |

**Brushed Metal Finishes**



*FPT-CACP*



*FPT-CACP-AL*

**Non-Metallic Colors and Finishes**



*FPT-441-SW-BLK*



*FPT-441-SW-GRY*



*FPT-441-SW-BGE*



*FPT-441-SW-BRN*

## Poke Through Systems

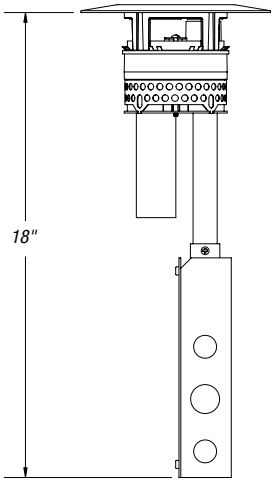
# FFPT4 Series Poke Through

NEW!

With limitations on the number of holes that can be drilled in a floor, it is important to maximize the capacity of each location. The FFPT4 Series provides high capacity for both power wiring and communications cabling when feeding modular furniture — in a single-core drill location!

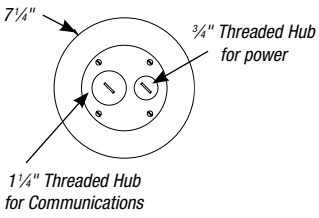
- Capacity: ¾" hub for power wiring and 1¼" hub for communications cabling (plugs included)
- Core drill size: 4"
- Solid brass and aluminum finishes provide superior aesthetics and durability
- Powder-coated aluminum covers are available in black, gray, brown and beige to match any décor — the most colors in the industry
- Integral junction box features (5) ½" and (5) ¾" knockouts (27 cubic inch capacity)



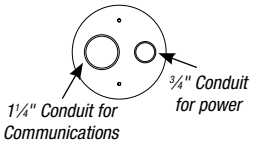



| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FFPT4-BRS** | FFPT4 Series Poke-Through Assembly: Base Unit with Brushed-Brass Cover | 1 |
| **FFPT4-ALM** | FFPT4 Series Poke-Through Assembly: Base Unit with Brushed-Aluminum Cover | 1 |
| **FFPT4-BLK** | FFPT4 Series Poke-Through Assembly: Base Unit with Black Powder-Coat Cover | 1 |
| **FFPT4** | FFPT4 Series Poke-Through Base Unit Only: Cover Purchased Separately *(see **page A-179**)* | 1 |

**Hub Layout — Cover**




**Cable Entry**




## Poke-Through Covers

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FFPT4-CVR-BRS** | Solid Brass, Brushed Finish | 4 |
| **FFPT4-CVR-ALM** | Solid Aluminum, Brushed Finish | 4 |
| **FFPT4-CVR-BLK** | Aluminum with Black Powder-Coat Finish | 4 |
| **FFPT4-CVR-GRY** | Aluminum with Gray Powder-Coat Finish | 4 |
| **FFPT4-CVR-BGE** | Aluminum with Beige Powder-Coat Finish | 4 |
| **FFPT4-CVR-BRN** | Aluminum with Brown Powder-Coat Finish | 4 |

*See **page A-179** to view typical brushed metal and powder coat colors and finishes.*





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## Poke Through Systems

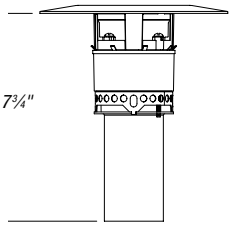
# FFPT3 Series Poke Through

NEW!

When feeding large bundles of communications cables through a fire-rated floor, the FFPT3 Series provides a high-capacity, straight-through wiring solution. It can also be used for power wiring.

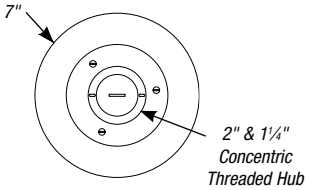
- Capacity: Concentric 1¼" and 2" hub for power or communications wiring (plugs included)
- Core Drill Size: 3"
- Solid brass and aluminum finishes provide superior aesthetics and durability
- Powder-coated aluminum covers are available in black, gray, brown and beige to match any décor — the most colors in the industry
- Junction box not included



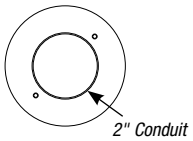



| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FFPT3-BRS** | FFPT3 Series Poke-Through Assembly: Base Unit with Brushed-Brass Cover | 1 |
| **FFPT3-ALM** | FFPT3 Series Poke-Through Assembly: Base Unit with Brushed-Aluminum Cover | 1 |
| **FFPT3-BLK** | FFPT3 Series Poke-Through Assembly: Base Unit with Black Powder-Coat Cover | 1 |
| **FFPT3** | FFPT3 Series Poke-Through Base Unit Only: Cover Purchased Separately (see **Below**) | 1 |

**Hub Layout — Cover**




**Cable Entry**




## Poke-Through Covers

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FFPT3-CVR-BRS** | Solid Brass, Brushed Finish | 4 |
| **FFPT3-CVR-ALM** | Solid Aluminum, Brushed Finish | 4 |
| **FFPT3-CVR-BLK** | Aluminum with Black Powder-Coat Finish | 4 |
| **FFPT3-CVR-GRY** | Aluminum with Gray Powder-Coat Finish | 4 |
| **FFPT3-CVR-BGE** | Aluminum with Beige Powder-Coat Finish | 4 |
| **FFPT3-CVR-BRN** | Aluminum with Brown Powder-Coat Finish | 4 |

*See **page A-179** to view typical brushed metal and powder coat colors and finishes.*

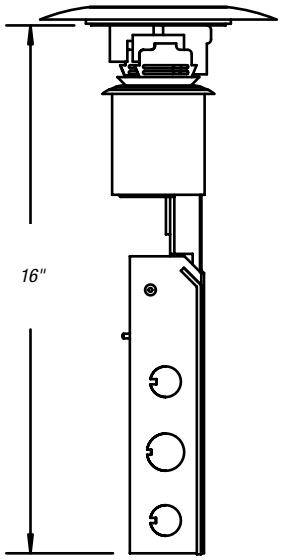


## Poke Through Systems

# FPT Furniture Feed Series

With three conduit hubs for power and communications and an integral junction box, the FPT Series provides a flexible, cost-effective furniture feed solution.

- Capacity: (2) ½" hubs and (1) ¾" hub for power and data (plugs included)
- Core drill size: 3"
- Non-metallic covers are available in black, gray, beige and brown
- Provided with Steel City® die cast fittings for flexible metal conduit: (2) ½" and (1) ¾"
- Integral junction box features (5) ½" and (5) ¾" knockouts (27 cubic inch capacity)

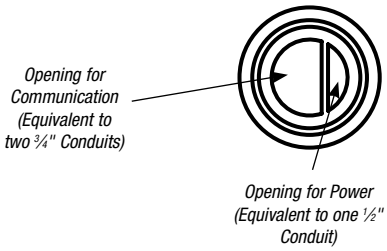





### Poke Through

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FPT-448-SW-BLK** | FPT Furniture Feed Poke-Through Assembly: Base Unit with Black Non-Metallic Cover | 1 |
| **FPT-448-SW-GRY** | FPT Furniture Feed Poke-Through Assembly: Base Unit with Gray Non-Metallic Cover | 1 |
| **FPT-448-SW-BGE** | FPT Furniture Feed Poke-Through Assembly: Base Unit with Beige Non-Metallic Cover | 1 |
| **FPT-448-SW-BRN** | FPT Furniture Feed Poke-Through Assembly: Base Unit with Brown Non-Metallic Cover | 1 |
| **FPT-400B** | FPT Poke-Through Base Unit Only: Cover Purchased Separately (see **Below**) | 1 |

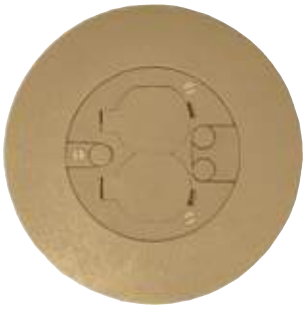
**Cable Entry**



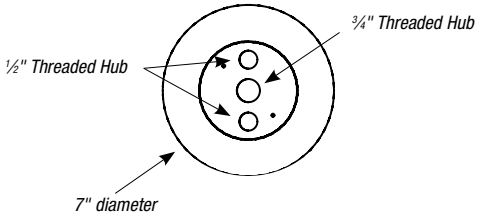

# Poke-Through Covers

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FPT-442-SW-BLK** | Black, Non-Metallic, 7" Diameter | 10 |
| **FPT-442-SW-GRY** | Gray, Non-Metallic, 7" Diameter | 10 |
| **FPT-442-SW-BGE** | Beige, Non-Metallic, 7" Diameter | 10 |
| **FPT-442-SW-BRN** | Brown, Non-Metallic, 7" Diameter | 10 |

*See **page A-179** to view typical non-metallic cover colors and finishes.*



**Hub Layout — Cover**






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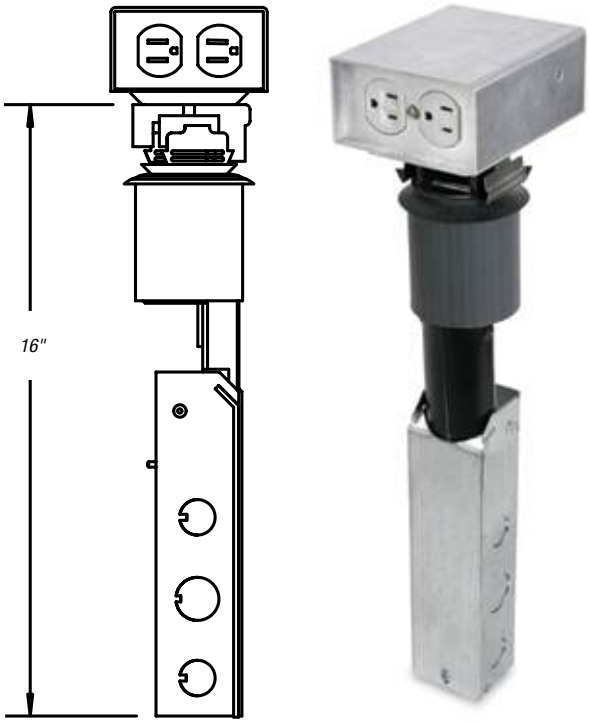
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## Poke Through Systems

# FPT Pedestal Series

By mounting all outlets above floor level and at a 90° angle to the floor, the FPT Pedestal Series protects power receptacles and communications devices from dirt and debris. An overhanging housing provides additional protection for the outlets.

- Pedestals available in 2 compartment and 4 compartment for power and communications applications
- Core drill size: 3"
- Housings and device plates feature a brushed-aluminum finish
- Integral junction box features (5) ½" and (5) ¾" knockouts (27 cubic inch capacity)



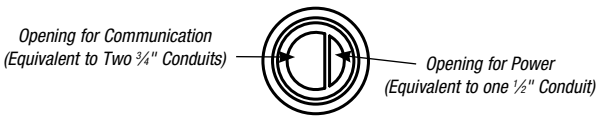

FPT-401A





FPT-421

**Cable Entry**




### Poke Through

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FPT-401A** | FPT Pedestal, Accepts 2 Device Plates, Poke-Through Base Unit Purchased Separately (2⅝" high x 4" wide x 4⅞" deep) | 10 |
| **FPT-421** | FPT Pedestal, Accepts 4 Device Plates, Poke-Through Base Unit Purchased Separately, (2⅝" high x 4" wide x 4⅞" deep) | 5 |
| **FPT-400B** | FPT Poke-Through Base Unit Only | 1 |

### Device Plates & Accessories

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FPT-424** | Duplex Device Plate, Aluminum with Anodized Finish | 50 |
| **FPT-425** | Blank Device Plate, Aluminum with Anodized Finish | 50 |
| **OPOD4-WH** | 4-Port "106" Duplex Adapter for Keystone Jacks (for use with FPT-424 plate) | 100 |
| **FPT-408A** | Voltage Divider for FPT-401A Pedestal | 10 |
| **FPT-422A** | Voltage Divider for FPT-421 Pedestal | 10 |
| **FPT-416** | Adapter for Conduit Stub Ups | 50 |



OPOD4-WH

# City of Chicago Approved Base Units

## FPT4 Poke Through

- Covers purchased separately, see **page A-179**
- All base units include appropriate communications conduit hub
- All base units include appropriate Keystone Communications Device Plate and Category 5e Keystone Data Jacks, see **page A-140** for additional device plates
- Power junction box not included — use City of Chicago approved box
- See **page A-174** for additional details on FPT4 Series

NEW!



*(Cover purchased separately)*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FPT4-4P-4C-C** | FPT4 Poke-Through Base Unit Only, (4) 20A Power Receptacles, (4) Communications Devices | 1 |
| **FPT4-2P-6C-C** | FPT4 Poke-Through Base Unit Only, (2) 20A Power Receptacles, (6) Communications Devices | 1 |
| **FPT4-8C-C** | FPT4 Poke-Through Base Unit Only, (8) Communications Devices | 1 |
| **FPT4-1TL21-2C-C** | FPT4 Poke-Through Base Unit Only, 20A/125V Twist Lock Receptacle, NEMA L5-20R (2) Communications Devices | 1 |
| **FPT4-1TL22-2C-C** | FPT4 Poke-Through Base Unit Only, 20A/250V Twist Lock Receptacle, NEMA L6-20R (2) Communications Devices | 1 |
| **FPT4-1TL31-2C-C** | FPT4 Poke-Through Base Unit Only, 30A/125V Twist Lock Receptacle, NEMA L5-30R (2) Communications Devices | 1 |
| **FPT4-1TL32-2C-C** | FPT4 Poke-Through Base Unit Only, 30A/250V Twist Lock Receptacle, NEMA L6-30R (2) Communications Devices | 1 |

## FPT3 Poke Through

- Covers purchased separately, see **page A-179**
- Includes (1) 20A duplex receptacle, pre-wired
- Includes (2) CAT5e data jacks
- Power junction box not included — use City of Chicago approved box
- See **page A-178** for additional details on FPT3 Series



*(Cover purchased separately)*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FPT3-2P-2C-C** | FPT3 Poke-Through Base Unit Only, (1) 20A Duplex Receptacle, (2) Communications Devices | 1 |

## FFPT4 Poke Through

- Covers purchased separately, see **page A-180**
- Power junction box not included — use City of Chicago approved box
- See **page A-180** for additional details on FFPT4 Series



*(Cover purchased separately)*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FFPT4-C** | FFPT4 Poke-Through Base Unit Only | 1 |

## FFPT3 Poke Through

- Covers purchased separately, see **page A-181**
- Power junction box not included — use City of Chicago approved box
- See **page A-181** for additional details on FFPT3 Series



*(Cover purchased separately)*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **FFPT3** | FFPT3 Poke-Through Base Unit Only | 1 |



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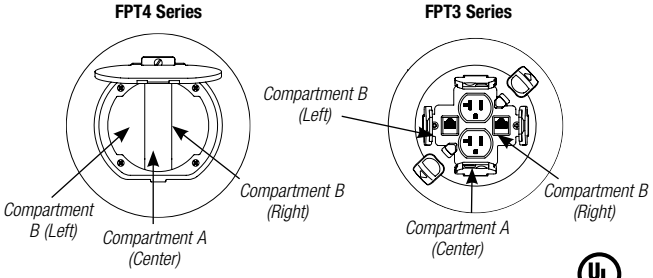
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# Flush Power and Communications Poke Through Systems



**Fire Rating and Concrete Thickness Min./Max. (All Series)**

- For use in 1-, 1½- and 2-hour rated floors
- 1-hour rated floor
  - 2¼" minimum concrete over steel decking
  - 3" minimum concrete for reinforced slab
  - 7½" maximum concrete thickness
- 2-hour rated floor
  - 3¼" minimum concrete over steel decking
  - 4" minimum concrete for reinforced slab
  - 7½" maximum concrete thickness




| POKE-THROUGH SERIES | MAXIMUM ALLOWABLE COPPER CROSS-SECTIONAL AREA FOR COMMUNICATIONS CABLING | | |
|---|---|---|---|
| | COMPARTMENT B (LEFT) | COMPARTMENT A (CENTER) | COMPARTMENT B (RIGHT) |
| **FPT4-4P-4C** | Power | .01630 sq. in | Power |
| **FPT4-2P-6C** | Power | .01630 sq. in. | .01536 sq. in. |
| **FPT4-8C** | .01536 sq. in. | .01630 sq. in. | .01536 sq. in. |
| **FPT4-1TL-2C** | Power | Power | .01536 sq. in. |
| **FPT3-2P-2C** | .00321 sq. in. | Power | .00321 sq. in. |

| CROSS-SECTIONAL AREA FOR COMMON COPPER CONDUCTORS | |
|---|---|
| 24 AWG | .00032 sq.in. |
| 22 AWG | .00050 sq. in. |
| 14 AWG | .00323 sq. in. |
| 12 AWG | .00512 sq. in. |
| 10 AWG | .00615 sq. in. |
| 8 AWG | .01296 sq. in. |

*Solid or stranded wires.*

## RPT Series

The RPT Series has been superceded by the FPT4 Series:

| RPT SERIES | FPT4 SERIES |
|---|---|
| RPT-4P-2RJ | FPT4-4P-4C |
| RPT-2P-4RJ | FPT4-2P-6C |
| RPT-6RJ | FPT4-8C |

**Maximum Allowable Copper Cross-Sectional Area for Communications Cabling — Furniture Feed Poke-Through Systems.**

- FFPT4 Series:
  - ¾" Hub for Power: .08192 sq. in.
  - 1¼" Hub for Communications: .07168 sq. in.
- FFPT3 Series:
  - 2" Hub for Power or Communications: .1024 sq. in.

**Materials:**

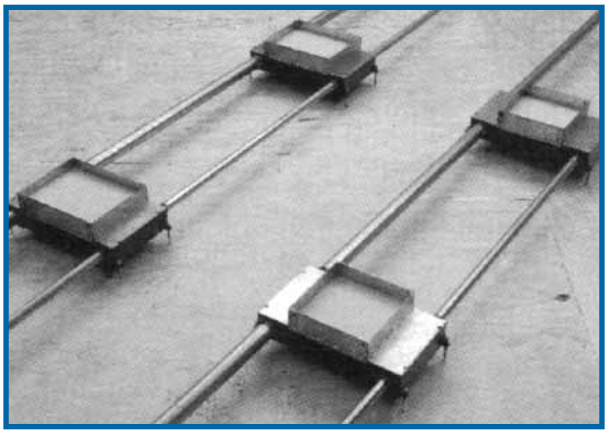
- FPT4 Series:
  - Covers: Solid brass or aluminum
  - Conduit Hubs: Cast iron
  - Base: Die-cast zinc, galvanized steel & intumescent fire-stop material
  - Junction box: Galvanized steel
- FPT3 Series:
  - Covers: Solid brass or aluminum
  - Base: Die-cast zinc, galvanized steel & intumescent fire-stop material
  - Junction box: Galvanized steel
- FPT Flush/Furniture Feed/Pedestal Series:
  - Covers: Solid brass or aluminum, non-metallic — polycarbonate
  - Base: Phenolic, galvanized steel & intumescent fire-stop material
  - Junction box: Galvanized steel
- FFPT4 Series:
  - Covers: Solid brass or aluminum
  - Base: Die-cast zinc, galvanized steel & intumescent fire-stop material
  - Junction box: Galvanized steel
- FFPT3 Series:
  - Covers: Solid brass or aluminum
  - Base: Die-cast zinc, galvanized steel & intumescent fire-stop material

**Installation Spacing:**

- Minimum of 2-ft. on center
- Not more than one poke through per 65 sq. ft. of floor area in each span

# Access Floor Modules





Steel City® Access Floor Modules from Thomas & Betts eliminate the clutter of power, voice and data lines by keeping everything out of sight but conveniently close at hand. Our easy-to-install Access Floor Modules are designed to blend with any decor, while providing the durability and versatility you need to meet the growing demands of today's high-tech offices.

You can use our Access Floor Modules with virtually any type of raised floor. Our system is designed to provide a simple, strong and adaptable solution to even the most demanding wire-management needs.

## Range of Box Sizes Designed to Meet the Needs of any Application. Now and Later.

With five sizes to choose from, our Access Floor Modules handle a broad range of wiring needs, from single power lines to complex data and voice systems. In fact, our largest unit offers 325 cu. in. of space, making it the roomiest in the industry. And, because our modules are easy to install and relocate, you can easily change box sizes or reposition modules as office configurations change.

## New, Low-Profile Box Fits Right In with Shallower Raised Floors.

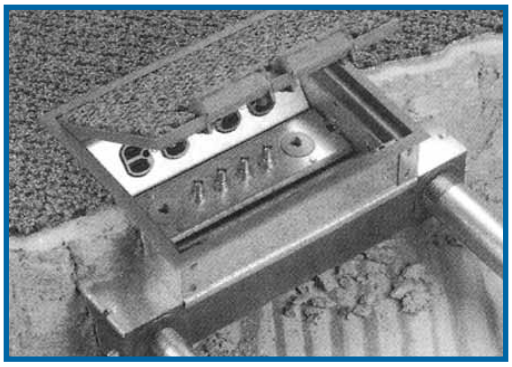
For installations where shallower raised floors are needed, Thomas & Betts has developed a low-profile Access Floor Module to provide the same accessibility and convenience where space is at a premium. Just 2½-inches deep, it can still accommodate a variety of power, voice and data connections.

## Wide Variety of Interchangeable Power and Data Panels Adapt to Changing Demands.

Our extensive line of panels and connection devices maximizes the versatility of our Access Floor Modules. All our panels are designed to be easy to connect, disconnect and rearrange to reduce on-site installation time. And Thomas & Betts is continually developing new configurations to meet the requirements of virtually any installation, especially for the fast-growing needs of voice and data communication.

## Durable, Solid Steel Covers Support Heavy Loads to Protect Important Connections.

We've reinforced the resilient nylon covers of our modules with a 5⁄32" steel plate to prevent buckling under heavy furniture and equipment. The beveled sides enable quick and unobstructed installation in the raised floor.



In addition, our retractable exit not only helps prevent tripping, but protects cable connections by sealing out dust and debris. And, as with all Thomas & Betts products, our Access Floor Modules are constructed to meet your high standards for durability, safety and reliability.

## Steel City® Access Floor Modules Provide Outstanding Performance Without Standing Out.

The hinged service top on our modules sits flush with the floor and provides complete access to the connections within. The nylon frame comes in gray, brown, beige and black.

Our Access Floor Modules keep wire connections close at hand but not under foot. The widest variety of box sizes, panels and devices in the industry provides exceptional versatility for changing office needs.

Look below the surface and see how Steel City® Access Floor Modules can manage all your power, voice and data connections — today and tomorrow.



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## Access Floor Modules

# AFM-2 Series Access Floor Module — Non-Metallic Covers



| AFM PANELS | POWER | |
|---|---|---|
| **AFM-2-BLK**<br>**GRY**<br>**BRN**<br>**BGE** |  <br>**AFP-2A***<br>*Single Duplex* |  <br>**AFP-2B**<br>*Blank* |
| **DATA PANEL** | **ACCESSORIES** | |
|  <br>**AFD-2 3RJ**<br>*3 T&B Omnijacks or Keystone-Style Jacks* | **AFT-2**<br>*Power Tunnel*<br>**AFR-2****<br>*Mounting Flange* |  |

** (1) supplied with box.*

*** Used to correct opening in floor. Not required for all installations.*

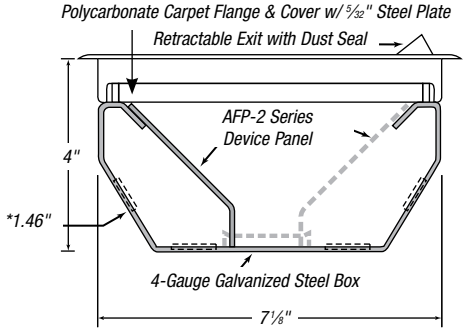
| ACCESS FLOOR MODULE SIZE | AFM-2 |
|---|---|
| AFM depth | 4" |
| Access floor cut-out | 7⅛" x 4⅛" |
| AFM cover size | 6¾" x 3⅞" |
| AFM cover access area | 17 sq. in. |
| Box volume (less panels) | 75 cu in. |
| Device compartment volume — 45° Power | 16.2 cu in. |
| Base opening | — |
| Power panel included** | AFP-2A |
| Closure panel included | — |
| Cover/carpet flange material | Polycarbonate |
| Body material | 14-ga. galvanized steel |
| Prewiring available | Yes* |
| Max. no. of device panels | 2 |

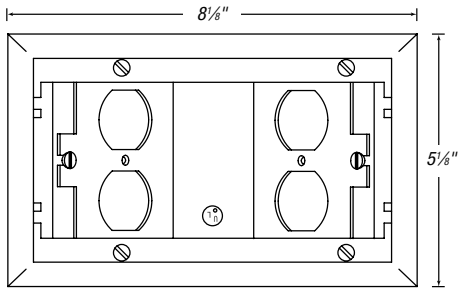
** Special panels available — consult factory.*

*** Devices not included.*

*Available with black (-BLK), brown (-BRN), beige (-BGE) or gray (-GRY) cover flange.*

*Replacement covers: see 664 series covers on* ***page A-131****.*



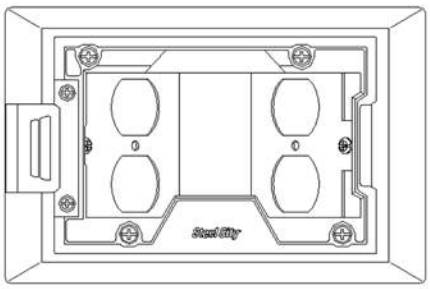

*AFM-2*

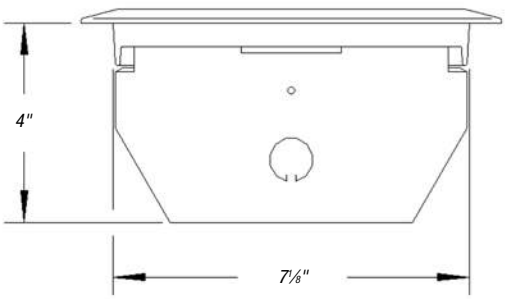
*Shown with supplied power panel and optional panel (sold separately).*

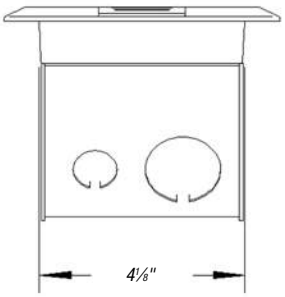
## Access Floor Modules

# AFM-2 Series Access Floor Module — Metallic Covers








## AFM-2 Access Floor Module

| ACCESS FLOOR MODULE SIZE | AFM-2 |
|---|---|
| AFM depth | 4" |
| Access floor cut-out | 7⅛" x 4⅛" |
| AFM cover size | 6¾" x 3⅞" |
| AFM cover access area | 17 sq. in. |
| Box volume (less panels) | 75 cu in. |
| Device compartment volume | 16.2 cu in. |
| Base opening | — |
| Power panel included** | AFP-2A |
| Closure panel included | — |
| Cover/carpet flange material | Brass, Aluminum |
| Body material | 14-ga. galvanized steel |
| Prewiring available | Yes* |
| Max. no. of device panels | 2 |

** Special panels available — consult factory.*

*** See **previous page** for device plates and accessories.*

*Replacement covers: see 664 Series covers on **page A-131**.*

## AFM-2 Series Raised Floor Boxes

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **AFM-2-BRS** | AFM-2 Raised Floor Box, 2 Compartment, Solid Brass Cover | 1 |
| **AFM-2-ALM** | AFM-2 Raised Floor Box, 2 Compartment, Solid Aluminum Cover | 1 |

*For additional device plate options see **previous page**.*



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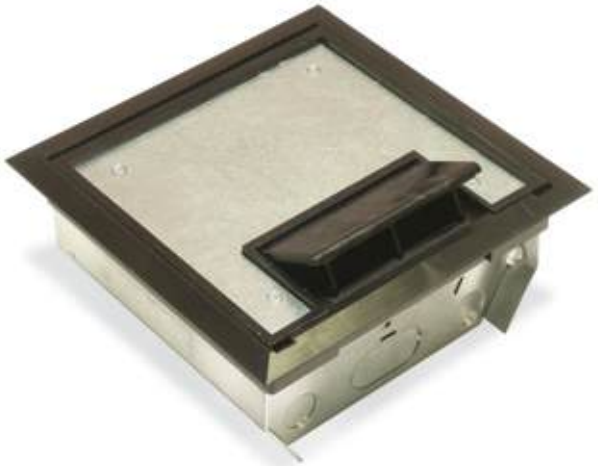
**United States**
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

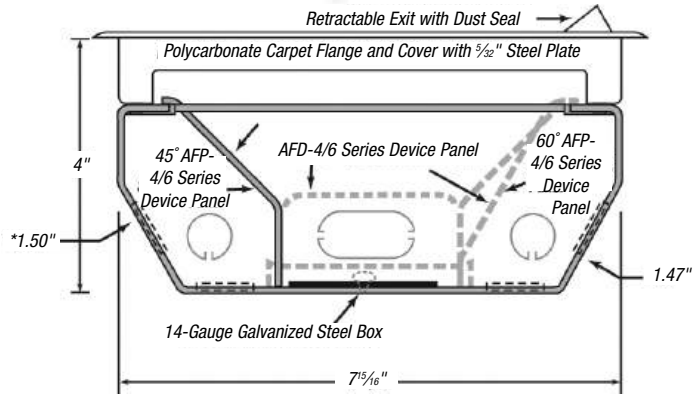
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## Access Floor Modules

# AFM-4 Series Access Floor Module — Non-Metallic Covers






**POWER PANELS**

**AFM-4-BLK GRY BRN BGE**



**AFP-4A*** *Single Duplex–45°*



**AFP-4A60** *Single Duplex–60°*



**AFP-4GFCI** *Single GFCI–60°*



**AFP-4B** *Blank–45°*



**AFP-4B60** *Blank–60°*



**AFP-4-GFCI-45** *Single GFCI–45°*

** (1) supplied with box.*

*** Used to correct opening in floor. Not required for all installations.*

**DATA PANELS**



**AFD-4A** *Single Duplex Data*



**AFD-4B** *Blank*



**AFD-4 4RJ** *Keystone Style Jacks*

**ACCESSORIES**



**AFT-46** *Power Tunnel*



**AFT-4** *Mounting Flange*



**AFC-N** *Grommeted Closure Panel*



**AFM-4EX** *Extension Collar*

** (1) supplied with box.*

*** Used to correct opening in floor. Not required for all installations.*

| ACCESS FLOOR MODULE SIZE | | AFM-4 |
|---|---|---|
| AFM Depth | | 4" |
| Access floor cut-out | | 7 15/16" x 7 15/16" |
| AFM cover size | | 7 5/8" x 7 5/8" |
| AFM cover access area | | 39 sq. in. |
| Box volume (less panels) | | 150 cu in. |
| Device | 45° power | 27.3 cu in. |
| compartment | 60° power | 25.2 cu in. |
| volume | Center data | 20.6 cu in. |
| Base opening | | 2" x 2 7/8" |
| Power panel included** | | AFP-4A |
| Closure panel included | | AFC-C |
| Cover/carpet flange material | | Polycarbonate |
| Body material | | 14-ga. galvanized steel |
| Prewiring available | | Yes* |
| Max. no. of device panels | | 3 |

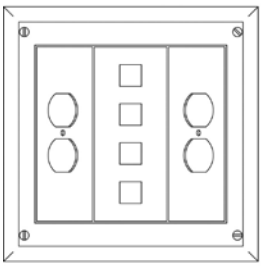
** Special panels available — consult factory.*

*** Devices not included.*

*Available with black (-BLK), brown (-BRN), beige (-BGE) or gray (-GRY) cover flange.*

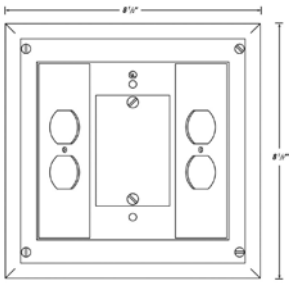
*Replacement covers: see 665 Series covers on* ***page A-135****.*

*Shown with Supplied Power Panel and Optional Data Panel and 45° Power Panel (sold separately).*



*45° Angle Plates*

*Shown with Optional 60° Panels (sold separately).*

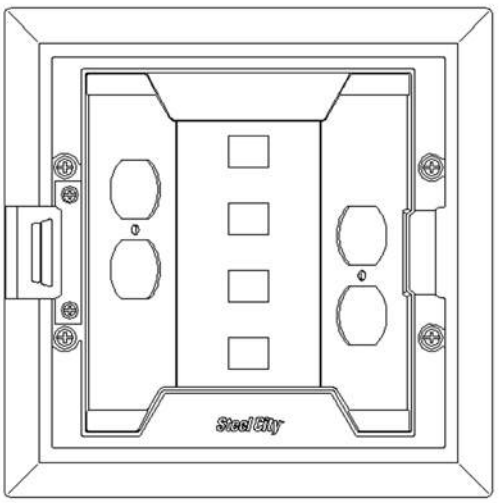


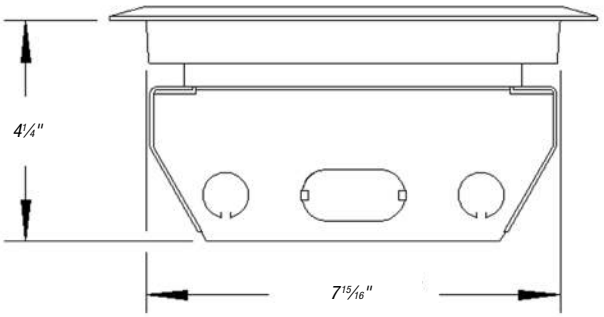
*60° Angle Plates*

## Access Floor Modules

# AFM-4 Series Access Floor Module — Metallic Covers





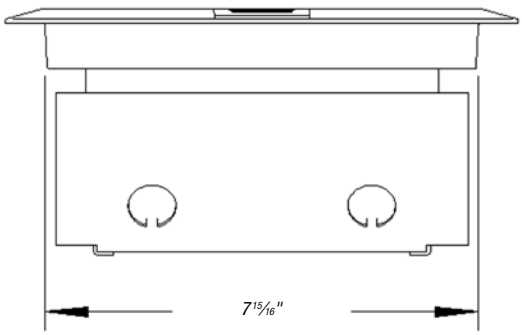

| ACCESS FLOOR MODULE SIZE | AFM-4 |
|---|---|
| AFM Depth | 4" |
| Access floor cut-out | 7¹⁵⁄₁₆" x 7¹⁵⁄₁₆" |
| AFM cover size | 7⅞" x 7⅞" |
| AFM cover access area | 39 sq. in. |
| Box volume (less panels) | 150 cu in. |
| Device compartment volume | 27.3 cu in.<br>25.2 cu in.<br>20.6 cu in. |
| Base opening | 2" x 2⅞" |
| Power panel included** | AFP-4A |
| Closure panel included | AFC-C |
| Cover/carpet flange material | Brass, Aluminum |
| Body material | 14-ga. galvanized steel |
| Prewiring available | Yes* |
| Max. no. of device panels | 3 |

** Special panels available — consult factory.*

*** Devices not included.*

*See **previous page** for device plates and accessories.*

*Replacement covers: see 665 Series covers on **page A-135**.*




# AFM-4 Series Raised Floor Boxes

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **AFM-4-BRS** | AFM-4 Raised Floor Box, 3 Compartment, Solid Brass Cover | 1 |
| **AFM-4-BRS-R** | AFM-4 Raised Floor Box, 3 Compartment, Solid Brass Cover with Recess | 1 |
| **AFM-4-ALM** | AFM-4 Raised Floor Box, 3 Compartment, Solid Aluminum Cover | 1 |
| **AFM-4-ALM-R** | AFM-4 Raised Floor Box, 3 Compartment, Solid Aluminum Cover with Recess | 1 |



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## Access Floor Modules

# AFM-6 Series Access Floor Module



| ACCESS FLOOR MODULE SIZE | | AFM-6 |
|---|---|---|
| AFM Depth | | 4 |
| Access floor cut-out | | 7 15/16" x 10" |
| AFM cover size | | 7 5/8" x 9 3/4" |
| AFM cover access area | | 60 sq. in. |
| Box volume (less panels) | | 225 cu. in. |
| Device compartment volume | 45° power | 41.5 cu. in. |
| | 60° power | 38.3 cu. in. |
| | Center data | 31.3 cu. in. |
| Base opening | | 2" x 2 7/8" |
| Power panel included** | | AFP-6Q |
| Closure panel included | | AFC-C |
| Cover/carpet flange material | | Polycarbonate |
| Body material | | 14-ga. galvanized steel |
| Prewiring available | | Yes* |
| Max. no. of device panels | | 3 |

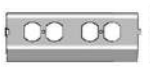
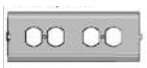
** Special panels available — consult factory.*

** Devices not included.*

*Available with black (-BLK), brown (-BRN), beige (-BGE) or gray (-GRY) cover flange.*

*Replacement cover: AFM-6-CST-SW black (-BLK), brown (-BRN), beige (-BGE) or gray (-GRY) cover flange.*

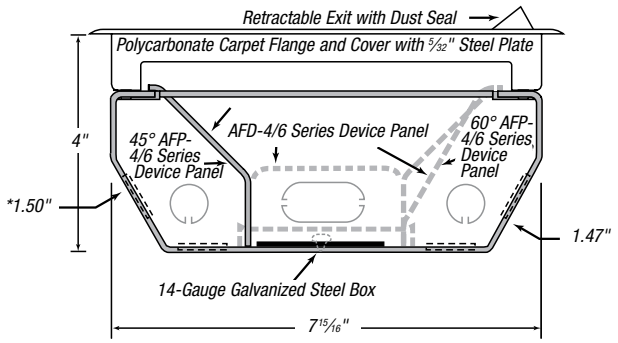
File No. E2969 File No. L12798

| AFM | POWER PANELS | | |
|---|---|---|---|
| AFM-6-BLK<br>GRY<br>BRN<br>BGE |  |  |  |
| | **AFP-6Q*** *Double Duplex–45°* | **AFP-6B** *Single Duplex–60°* | **AFP-6A** *Single Duplex–45°* |
| |  |  |  |
| | **AFP-6B60** *Blank–45°* | **AFP-6R60** *Double Duplex–60°* | **AFP-6-GFCI-45** *Single GFCI–60°* |
| |  |  | |
| | **AFP-6A60** *Single Duplex–60°* | **AFP-6-GFCI-45** *Double GFCI–60°* | |

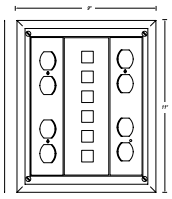
| DATA PANELS | | ACCESSORIES | |
|---|---|---|---|
|  |  |  |  |
| **AFD-4A** *Double Duplex Data* | **AFD-6B** *Blank* | **AFT-46** *Power Tunnel* | **AFR-6** *Mounting Flange* |
|  |  |  |  |
| **AFD-6 4RJ** *T&B Omni jacks or Keystone style jacks* | **AFD-6A** *Single Duplex* | **AFC-N** *Grommeted Closure Panel* | **AFM-6EX** *Extension Collar* |

** (1) supplied with box.*

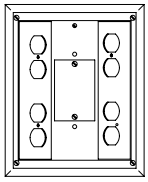
*** Used to correct opening in floor. Not required for all installations.*




45° Angle Plates Shown with Supplied Power Panel and Optional Data Panel and 45° Power Panel (sold separately).



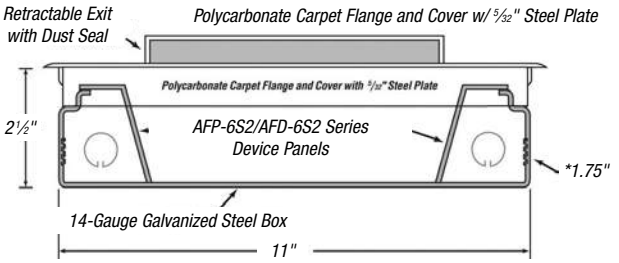
60° Angle Plates Shown with Optional 60° Panels (sold separately).



## Access Floor Modules

# AFM-6S2 Series Access Floor Module






| ACCESS FLOOR MODULE SIZE | | AFM-6S |
|---|---|---|
| AFM depth | | 2½" |
| Access floor cut-out | | 7 15/16" x 10" |
| AFM cover size | | 7⅝" x 9¾" |
| AFM cover access area | | 60 sq. in. |
| Box volume (less panels) | | 172 cu. in. |
| Device compartment volume | Power | 13.1 cu. in. |
| | Data | 6.6 cu. in. |
| Base opening | | — |
| Power panel included** | | AFP-6S2-L, AFP-6S2-R |
| Wire tunnel included | | — |
| Cover/carpet flange material | | Polycarbonate |
| Body material | | 14-ga. galvanized steel |
| Prewiring available | | Yes* |
| Max. no. of device panels | | 4 |

** Special panels available — consult factory.*

*** Devices not included.*

*Available with black (-BLK), brown (-BRN), beige (-BGE) or gray (-GRY) cover flange.*

*Replacement cover: AFM-6-CST-SW black (-BLK), brown (-BRN), beige (-BGE) or gray (-GRY) cover flange.*

File No. E2969 File No. L12798

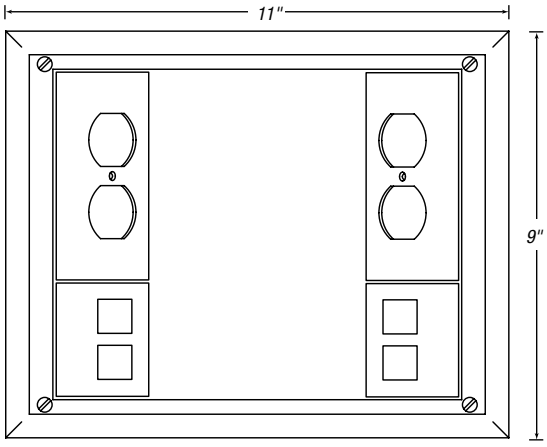
| AFM | POWER PANELS | |
|---|---|---|
| AFM-6S-BLK<br>GRY<br>BRN<br>BGE |  <br>**AFP-6S2-R (-L)**<br>*Single Duplex*<br>*(R-right side; L-Left Side)* |  <br>**AFP-6S2-GR (-GL)**<br>*Single GFCI* |
| |  <br>**AFP-6S2-BR (-BL)**<br>*Blank* | |

| DATA PANELS | ACCESSORIES |
|---|---|
|  <br>**AFD-6S2-2RJ**<br>*T&B Omni jacks or Keystone style jacks* |  <br>**AFR-6****<br>*Mounting Flange* |
|  <br>**AFD-6S2-B**<br>*Blank* | |

** (1) AFP-6S2-R & (1) AFP-6S2-L supplied with box.*

*** Used to correct opening in floor. Not required for all installations.*

*Replacement cover: AFM-6-CST-SW black (-BLK), brown (-BRN), beige (-BGE) or gray (-GRY) cover flange.*




*AFM-6S2*
*Shown with supplied power panels and optional data panels (sold separately).*



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## Access Floor Modules

# AFM-8 Series Access Floor Module



| AFM | POWER PANELS | |
|---|---|---|
| AFM-8-BLK<br>GRY<br>BRN<br>BGE |  <br>**AFP-8A**<br>*Single Duplex* |  <br>**AFP-8G***<br>*Single GFCI* |
| |  <br>**AFP-8B**<br>*Blank* | |

| DATA PANELS | ACCESSORIES |
|---|---|
|  <br>**AFD-8-3RJ**<br>*Keystone* |  <br>**AFR-8****<br>*Mounting Flange* |

** Power panels include a voltage partition for use between power and data panels.*

*** Used to correct opening in floor. Not required for all installations.*

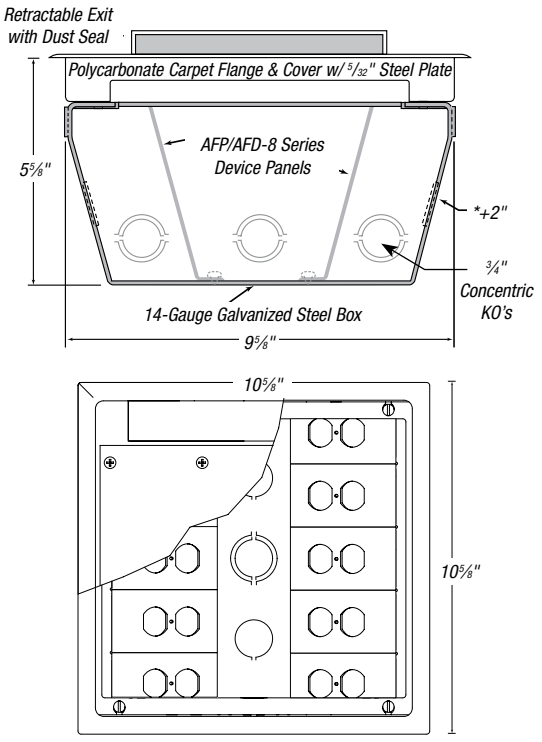
| ACCESS FLOOR MODULE SIZE | | AFM-6 |
|---|---|---|
| AFM Depth | | 5⅝" |
| Access floor cut-out | | 9⅝" x 9⅝" |
| AFM cover size | | 9⅜" x 9⅜" |
| AFM cover access area | | 74 sq. in. |
| Box volume (less panels) | | 325 cu in. |
| Device compartment volume | 45° power | |
| | 60° power | |
| | Power or Data | 15.75 cu in. |
| Base opening | | — |
| Power panel included** | | — |
| Closure panel included | | — |
| Cover/carpet flange material | | Polycarbonate |
| Body material | | 14-ga. galvanized steel |
| Prewiring available | | Yes* |
| Max. no. of device panels | | 10 |

** Special panels available — consult factory.*

*Available with black (-BLK), brown (-BRN), beige (-BGE) or gray (-GRY) cover flange.*

*Replacement covers: see 667 Series covers on* ***page A-139****.*

File No. E2969 File No. L12798




*AFM-8*
*Shown with Optional Power Panels (sold separately).*
*Accepts 10 device panels.*
*Each compartment can accept voltage dividers for any combination of power and data (included with device panels).*

## Access Floor Modules

# Because a Square Peg Doesn't Fit in a Round Hole!

## AFM-4R Series Access Floor Module



In response to industry demand for a more symmetrical approach to raised-floor power and data access, Thomas & Betts introduces the latest addition to the Steel City® Access Floor Module (AFM) line. The AFM-4R features a round construction that matches the aesthetics of air diffusers commonly used in raised-floor applications.

- Round design enables the box to be installed in the same size hole as standard air diffusers — eliminates the need for multiple raised-floor tiles with custom-sized cutouts (and round holes are faster and easier to cut than square/rectangular ones)
- Three-compartment stamped-steel box with voltage dividers accommodates both power and data outlets
- Durable black polycarbonate cover features two cable-entry lids that lock in the open position to prevent cable damage
- Optional power tunnel links outside power compartments to feed both compartments with a single conduit — while still allowing for communications wiring in the center
- Two thumbscrews secure AFM-4R firmly in place, but remove easily for reconfiguration
- Fits into holes ranging from 8¼" to 8¾" in diameter
- Outside compartments: 21 cu. in. capacity, ¾" KO on side, ½" KO on each end, ½" KO and ¾" KO on bottom
- Center compartment: 40 cu. in. capacity, 1¼" KO on each end, two removable access plates with ¾" KO on bottom

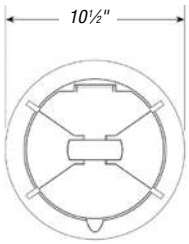
| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| ***Access Floor Module*** | | |
| **AFM-4R-BLK** | Three Compartment Round Access Floor Module with Black Cover, (1) AFP-4R-A Duplex Panel | 1 |
| ***Panels for Outside Compartments*** | | |
| **AFP-4R-A** | Duplex Panel for Outside Compartment | 1 |
| **AFP-4R-GFCI** | GFCI Panel for Outside Compartment | 1 |
| **AFP-4R-B** | Blank Panel for Outside Compartment | 1 |
| ***Panels for Center Compartment*** | | |
| **AFD-4R-A** | Duplex Panel for Center Compartment | 1 |
| **AFD-4R-GFCI** | GFCI Panel for Center Compartment | 1 |
| **AFD-4R-6RJ** | Data Panel for 6 Keystone Jacks for Center Compartment | 1 |
| **AFD-4R-B** | Blank Panel for Center Compartment | 1 |
| ***Accessories/Replacement Parts*** | | |
| **AFT-2** | Optional Power Tunnel to Link Outside Compartments | 1 |
| **AFM-4R-CST-BLK** | Replacement Cover and Mounting Ring, Black | 1 |

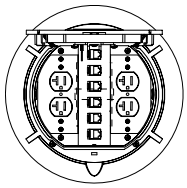


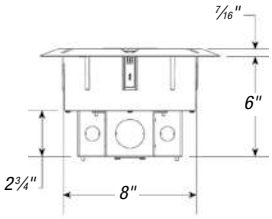
AFM-4R-BLK



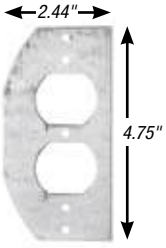
Air Diffuser







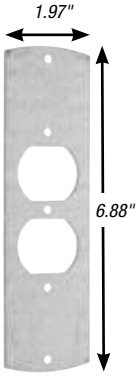

AFP-4R-A



AFP-4R-GFCI



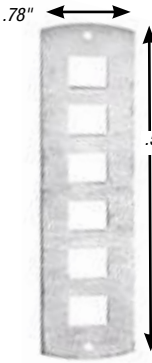
AFP-4R-B




AFD-4R-A



AFD-4R-GFCI




AFD-4R-6RJ



AFD-4R-B



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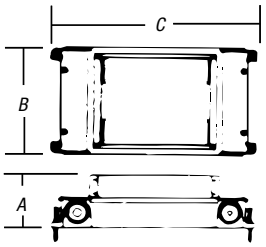
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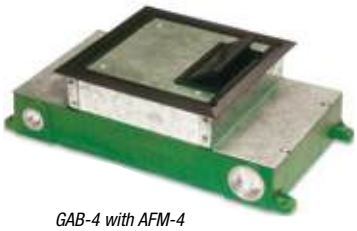
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# Concrete Inserts



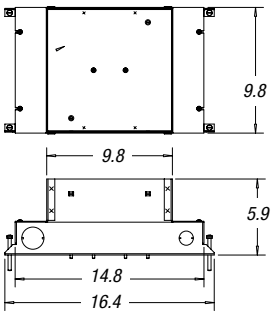


GAB-4 with AFM-4

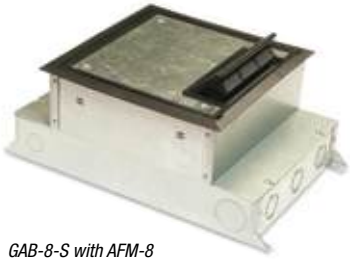


GAB-4






GAB-8-S



GAB-8-S with AFM-8

| CAT. NO. | DIMENSIONS (IN.) A | B | C | MAXIMUM CAPACITY (CU. IN.) | STANDARD CONDUIT TAPPING | MAXIMUM CONDUIT TAPPING | AFM INSERT | STD. CTN. |
|---|---|---|---|---|---|---|---|---|
| **GAB-4** | 4¼ | 9 | 16 | 150 | 2–¾"<br>2–1¼" | 1½" | AFM-4 | 1 |
| **GAB-6** | 4¼ | 9 | 16 | 225 | 2–¾"<br>2–1¼" | 1½" | AFM-6 | 1 |
| **GAB-8-S** | 5⅞ | 9¾ | 16⅜ | 325 | 2–¾"<br>2–1¼" | — | AFM-8 | 1 |

**Required for installation in concrete pours only.*

*For use with the AFM insert. The GAB cast Pre-Set includes center collar and styrene insert to prevent concrete ingress. Standard conduit hubs are ¾" and 1¼". Specify either -4 or -6.*

# Standard Specification — GAB Series Access Floor Box Pre-Set Insert

**Considerations when writing specification:**

The installation of access floor box pre-set inserts must be in compliance with the National Electrical Code®. These specifications may be used in three sections of the Construction Specification Institute (C.S.I.) format: 16132 Floor Boxes; 16141 Wiring Devices; and 16741 Telephone Raceway Systems. For accuracy, 16132 is preferred.

**Part 2: Products**

**2.01 Pre-Set Insert**

A. Shall be GAB Multiple Service Floor Outlet Assembly as manufactured by Thomas & Betts, Memphis, TN, (trade name, Steel City) consisting of:

1. Pre-set insert, Series GAB.
2. Activating unit, Series AFM-4 and AFM-6.

B. Call for approved suppliers of power and cable systems.

**2.02 Materials**

A. Cast-iron components to be gray iron per ASTM Specification A48, Class 20A.

B. Cast-iron components shall be protected with a painted coating as specified in UL 514A.

C. Steel components to be fabricated from cold rolled steel, .070 inch minimum thickness, conforming to ASTM A366.

D. Steel components to have an electrogalvanized zinc finish conforming to ASTM A386. Sheet metal steel fabrications shall be made of UL approved component G-90-U material.

E. Non-metallic components shall be glass-filled polymide nylon, UL recognized component QMFZ2.

**2.03 General Design Gab Series**

A. The GAB series shall consist of pre-set insert, activation unit and cover for the distribution of electrical power and data/communication signal systems.

**2.03.1 Pre-Set Insert**

A. Following sizes as shown on the drawings:

1. 8" x 8" nominal concrete opening (Ref.: Steel City GAB-4).
2. 8" x 10" nominal concrete opening (Ref.: Steel City GAB-6).

B. Overall size: 8" x 14" x 4 3/16" high.

C. Shall be installed with conduit sizes as shown on the drawings.

*(**Note**: Standard ¾" conduit thread on power side, in and out. Standard 1¼" conduit thread on data side, in and out. Special drilling and tapping up to 1½" conduit size. Reducing bushings may be used to downsize conduit.)*

D. Conduits for power shall enter and leave in-line and on same side so as to maintain separation of services.

E. Foam blocks shall exclude concrete from the interior.

1. Foam blocks shall permit a minimum of 1¼" of concrete over opening prior to activation.
2. Foam blocks shall be manufactured for the intended purpose.

**2.03.2 Activation Unit**

A. Following sizes shall match pre-set insert opening as shown on drawings:

1. 8" x 8" nominal size steel box (Ref.: Steel City AFM-4). Provides a minimum interior capacity of 150 cubic inches.
2. 8" x 10" nominal size steel box (Ref.: Steel City AFM-6). Provides a minimum interior capacity of 225 cubic inches.

B. Device panels may be data or telephone as shown on drawings.

C. If two duplex power receptacles are required on a single panel, the pre-set insert and activation unit shall be Steel City GAB-6 and AFM-6 respectively.

D. Data panels shall be designed to mount the data connectors and telephone connectors as shown on the drawings.

E. Cover shall be (gray, brown, black or beige) as specified on the drawings.

1. Shall accept floor covering material as required.
2. Shall be self-leveling when installed.

F. Cover, when closed, shall protect exiting cables and cords from abuse and abrasion by retractable cable exits. Cover shall install flush with floor and be 180° reversible.

G. Carpet edge shall be protected from fraying by a carpet trim ring of a matching color.

**Part 3: Execution**

**3.01 General**

A. All pre-set inserts shown on the drawings shall be installed with the specified runs of conduit.

B. Wire-pulling cords shall be in place in the conduit prior to pouring concrete.

C. Activate only the pre-set inserts as directed by the supervising engineer or owner.

D. Install and activate the assembly as directed by the manufacturer's installation instructions.

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Carlon®

# Carlon® Floor Boxes



**In this section...**



## Carlon® Floor Boxes


Residential Floor Boxes — Adjust-A-Box® ..... A-198–A-199
Residential Floor Boxes — Drop In ..... A-200–A-202
Rectangular Floor Boxes ..... A-203–A-205
Round Floor Boxes ..... A-206–A-208
Recessed Pop-Up Receptacle ..... A-209
Retractable Work Surface Receptacle ..... A-210


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# Adjust-A-Box® 1- and 2-Gang Adjustable Residential Floor Boxes

Carlon® Adjust-A-Box® Floor Boxes make installing floor outlets fast and easy by providing maximum installation flexibility. The box features an adjustment screw designed to adjust the box from 0" to 1¾" by simply turning the screw clockwise or counterclockwise, providing a flushmount every time.

Covers are available in three types: non-metallic, brass and stainless steel. They feature two hinged doors to protect unused devices and to keep out dust and scrubwater. Because the doors are attached, they won't get lost or misplaced while the outlet is in use.

The Adjust-A-Box® is available in two sizes, single-gang and double-gang. The single-gang box has a 20 cubic inch capacity and includes a duplex receptacle, and the double-gang box has a 34 cubic inch capacity, and comes with a divider for dual-voltage capabilities.

Carlon® Adjust-A-Box® Residential Floor Boxes are ideal for residential and home office applications and provide a clean, aesthetically pleasing floor outlet anywhere you need it.



*Double-Gang*
**Devices not included*



*Single-Gang*

**Features:**

- Listed floor boxes in accordance to section 314.27(B) of the NEC®
- Adjustment screw adjusts depth (from 0" to 1¾")
- Cover options include: non-metallic, brass and stainless-steel covers
- Covers have two (non-removable) hinged doors
- Solid brushed-brass and stainless-steel covers with a light lacquer finish for extra protection
- Non-metallic covers are available in white and ivory (single-gang box only)
- Two-gang version features dual-service capabilities (requires use of dual-service divider)
- Integral cable clamps
- Ideal for new work and retrofit applications
- UL® Listed
- UL® scrubwater tested

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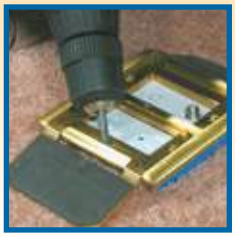
# Adjust-A-Box® Installation
# 1- and 2-Gang



1 Install clip over subfloor.



2 Screw in to adjust to height of flooring or carpet.



3 Beautiful flush fit every time!

## Kits include:



### Single-Gang

**Ivory/White Cover:**

- Two (2) 6-32 x 1 flat head machine screws
- Four (4) #6 1¼ self-tapping flat head screws
- Two (2) #6 1⅝ drywall screws
- One (1) cover plug
- One (1) New Work Bracket
- One (1) Old Work Bracket
- One (1) 20 cubic in. UL Listed Floor Box
- One (1) UL Listed Floor Cover
- One (1) short shank receptacle (tamper proof)
- One (1) tube Dow Corning #4 sealant
- Installation instructions

**Brass & Stainless Steel Covers:**

- Two (2) 6-32 x 1 plated flat head machine screws
- Four (4) #6 1¼ self-tapping flat head screws
- Two (2) #6 1⅝ drywall screws
- One (1) New Work Bracket
- One (1) Old Work Bracket
- One (1) 20 cubic in. UL Listed Floor Box
- One (1) UL Listed Floor Cover
- One (1) short shank receptacle
- Green ground wire
- Installation instructions



**Devices not included*

### Double-Gang

- One (1) New Work Bracket
- One (1) Old Work Bracket
- One (1) 34 cubic in. UL Listed Floor Box
- One (1) Dual-Voltage Divider
- One (1) UL Listed Floor Cover
- Four (4) #6-32 x 1" flat head machine screws
- Four (4) #6 x 1¼" flat head self-tapping screws
- Two (2) #6 x 1⅝" square drive trim head screws
- Green ground wire
- Installation instructions

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| CAT. NO. | SIZE | COVER | CUBIC IN. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|
| ***Non-Metallic*** | | | | | |
| **B121BFRW** | One-Gang | White | 20 | 8 | 7.1 |
| **B121BFBR** | One-Gang | Ivory | 20 | 8 | 6.9 |
| ***Brass*** | | | | | |
| **B121BFBB** | One-Gang | Brass | 20 | 8 | 15.0 |
| **B234BFBB** | Two-Gang | Brass | 34 | 4 | 10.7 |
| ***Stainless Steel*** | | | | | |
| **B121BFSS** | One-Gang | Stainless Steel | 20 | 8 | 13.7 |
| **B234BFSS** | Two-Gang | Stainless Steel | 34 | 4 | 9.8 |

## Residential Floor Boxes — Drop In

# Carlon® Structured Cable Management Systems… Your Total Systems Solution!

## Low-Voltage Adjustable Floor Bracket with Cover



The Carlon® Low-Voltage Adjustable Floor Bracket is specifically designed for the low-voltage, structured cabling market…the floor bracket is industry-standard orange to identify low-voltage applications, the open design provides the space needed for low-voltage bend-radius requirements and the Leviton QuickPort® Quad 106® Insert provides up to four low-voltage outlet ports. The Carlon® Low-Voltage Adjustable Floor Bracket is ideal for any residential or commercial low-voltage application.

The floor bracket also features a unique screw design, enabling it to be adjusted to most finished floor heights by simply turning the screw clockwise or counterclockwise and adjusting flush to the floor.

The floor bracket kit comes complete with a non-metallic (white or ivory) or brass cover, a Leviton QuickPort® Quad 106® Insert, new work and old work metal mounting brackets and mounting screws.

- White, ivory or brass cover
- Orange — identifies low-voltage installations
- Open design floor bracket — accommodates low-voltage bend-radius requirements
- Adjustable screw — bracket adjusts to most finished floor depths
- Leviton QuickPort® Quad 106® insert — install up to 4 low-voltage inserts
- Two-door design
- cUL–US Listed

## Installation



Install clip over subfloor.



Screw in to adjust to height of flooring or carpet.



Beautiful flush fit every time!

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E216492

| CAT. NO. | COVER | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| SC100FBWC | Non-Metallic — White | 8 | 5.62 |
| SC100FBVC | Non-Metallic — Ivory | 8 | 5.62 |
| SC100FBBC | Brass | 8 | 13.78 |



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# Drop-In Floor Box



The Carlon® Drop-In Floor Box with Brass Cover combines many of the same features of our existing Floor Box line with the strength, durability and style necessary to accommodate today's residential electrical/ telecommunication needs.

The Carlon® Drop-In Floor Box is the fastest, easiest way for contractors to put a floor socket anywhere they need it! It's designed to accommodate high- and low-voltage applications and comes complete with everything needed for installation — floor box, brass cover, hole saw, wired receptacle, two-hole low-voltage plate, blank plate, mounting screws and wire nuts.

***Note:*** *The Drop-In Floor Box is available with or without a hole saw.*



**Features:**

- Single hole installation
- Fast, easy installation
- Cover options include: Brass and Aluminum
- Accommodates high- and low-voltage applications
- Includes single-gang grounded receptacle, low-voltage telephone/cable plate (data jacks not included) and blank plate for custom installations
- Tamper-resistant receptacle
- Available with or without a hole saw
- 11.8 inch cubic capacity
- For wood floor installations
- Ideal for residential and home offices
- Eliminates the need for extension cords
- Superior aesthetics — ideal for home offices and entertainment rooms
- cUL–US Listed floor box in accordance with section 314.27(B) of the NEC®
- 2.25" installation hole diameter

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# Residential Floor Boxes — Drop In

## Drop-In Floor Box Installation:

***NOTE:*** *TURN POWER OFF BEFORE INSTALLATION.*



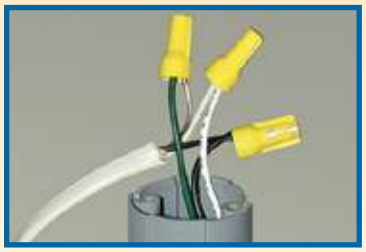
1 Cut 2⅜" hole through carpeting before using hole saw.



2 Drill hole in floor using hole saw.



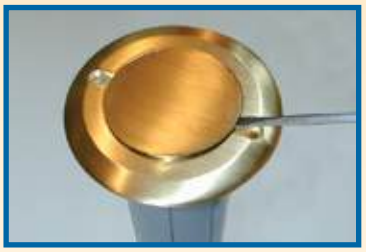
3 Pull romex through floor.



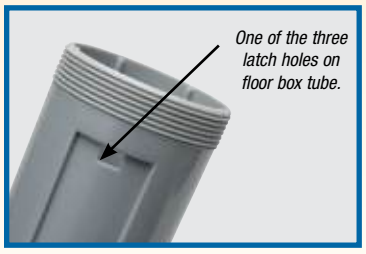
4 Connect receptacle wires to romex. Be sure to match wire color(s).



5 Secure wire clamp on bottom of tube.



6 Brass cover snaps into place. Use a small screwdriver to pry open brass cover to plug in appliance.




7 Align the three latches on the low-voltage plate with the three latch holes in the round floor box tube.



8 Remove receptacle by pressing three tabs located on side of tube. Remove receptacle by pressing three tabs located on side of tube.

## Installed:





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| CAT. NO. | COVER | DESCRIPTION | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| **E971FBDI-2** | Brass | Drop-In Floor Box with Hole Saw | 5 | 6.5 |
| **E971FBDIB-2** | Brass | Drop-In Floor Box without Hole Saw | 20 | 17.6 |
| **E971FADI-2** | Aluminum | Drop-In Floor Box with Hole Saw | 5 | 5.1 |
| **E971FADIB-2** | Aluminum | Drop-In Floor Box without Hole Saw | 20 | 12.0 |



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## Rectangular Floor Boxes

# 1-, 2- and 3-Gang Rectangular Floor Box



Carlon® Rectangular Floor Box Systems — three-way power, data and communications plus easy double- or triple-ganging, too.

Compared to metal boxes, Carlon® rectangular floor boxes cost less and install faster to save you money on every job. Three-in-one power, data and communications capability cuts installation time and cost even more, while simple two- and three-gang modularity gives you the flexibility, installation ease and cost-savings no other non-metallic boxes can match. The covers attach without the use of fasteners, providing a professional, clean installation as well as preserving the aesthetic life of the product. Take a closer look at all that our rectangular floor box systems offer you.



**Features:**

- Covers require no adjusting collar — two screws ensure a flush, secure installation
- Non-metallic PVC construction, watertight gasket and corrosion-resistant hardware ensure long life and reliable performance, even in harsh and/or corrosive environments
- One consistent box depth simplifies ordering time and reduces inventory
- Saves time and money on installations with simple saw cut to floor level
- Concrete tight and suitable for any on-grade/ below-grade application; concrete or wood subfloor construction approved
- Convenient cubic inch capacity markings on inside enable easy inspection
- PVC-molded ports and reducer plugs included
- Accepts ½", ¾" and 1" conduit, tubing or raceway
- Rectangular sides are drillable
- For tile and carpet applications
- Cover options include solid brass, stainless steel and non-metallic (brown, slate and caramel)
- UL® scrubwater tested, approved for all types of finish flooring

# Rectangular Floor Boxes

## Gangable Rectangular Floor Box

**Installation:**

With our rectangular boxes, one SKU is all you ever need. Simply remove appropriate sides and slide boxes together to create two- or three-gang boxes for on-the-job flexibility no competitor offers.



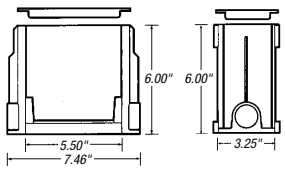






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| CAT. NO. | MATERIAL | SIZE | INTERNAL VOLUME (CU. IN.) | MIN. CONCRETE DEPTH | HUBS (IN.) | REDUCER PLUGS (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|---|---|
| **E976RFB** | PVC | 1-Gang | 97.4 (16.8 per inch of depth) | 3½ | (2) 1 | (2) 1 x ¾ (2) ¾ x ½ | 3 | 6.92 |




## Activation Kit

Activation kit provides components to accommodate all standard power, data and communications devices, plus a divider to separate power from data and communications — all in a single SKU. Device yokes can be adjusted to store excess cord in the box.



| CAT. NO. | MATERIAL | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| **E976AK2** | PVC | 3 | 2.47 |



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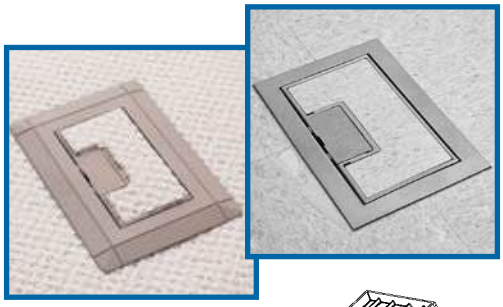
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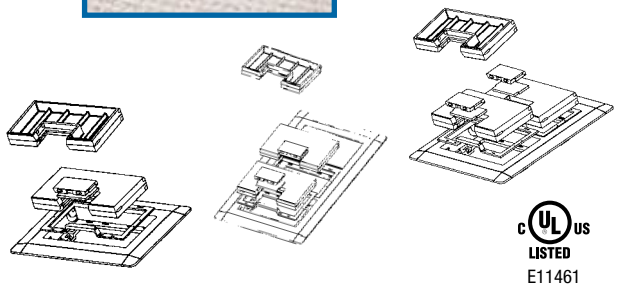
# Rectangular Floor Boxes

## 1-, 2- and 3-Gang Non-Metallic Floor Box Covers

On-the-job flexibility extends to our rectangular box covers. Each one-, two- or three-gang cover is suitable for any wiring application and can be used with any floor surface. Non-metallic covers are even field-reversible for tile or carpet. Double-door feature enables easy access to the device and helps keep stray cords organized.

***Carlon® Rectangular Floor Box Covers do not require a separate carpet flange. The carpet flange is part of the cover and may be removed for tile application.***





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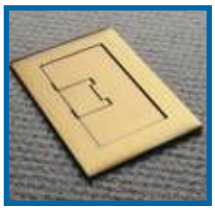
**Features:**

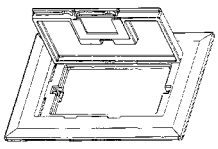
- High-impact resistant thermoplastic
- Field reversible for tile or carpet
- Gasketed for a watertight seal
- Double-door design
- For tile and carpet applications
- UL scrubwater tested

| CAT. NO. | SIZE | COLOR | CARPET FLANGE | DIMENSIONS (W X L) (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|
| **E9761B** | One-Gang | Brown | Included | 7.13 x 5.00 | 3 | 1.7 |
| **E9762B** | Two-Gang | Brown | Included | 7.13 x 8.25 | 9 | 8.5 |
| **E9763B** | Three-Gang | Brown | Included | 7.13 x 11.50 | 6 | 7.5 |
| **E9761C** | One-Gang | Caramel | Included | 7.13 x 5.00 | 3 | 1.7 |
| **E9762C** | Two-Gang | Caramel | Included | 7.13 x 8.25 | 9 | 8.5 |
| **E9763C** | Three-Gang | Caramel | Included | 7.13 x 11.50 | 6 | 7.5 |
| **E9761S** | One-Gang | Slate | Included | 7.13 x 5.00 | 3 | 1.7 |
| **E9762S** | Two-Gang | Slate | Included | 7.13 x 8.25 | 9 | 8.5 |
| **E9763S** | Three-Gang | Slate | Included | 7.13 x 11.50 | 6 | 7.5 |

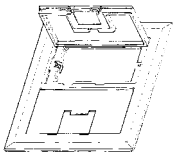
## 1-, 2- and 3-Gang Solid Brass and Stainless Steel Floor Box Covers

Carlon® Brass and Stainless Steel Rectangular Floor Box Covers add a classic touch to all floor box installations, and are particularly suited for use in high-traffic areas because of the resistance to wear. The gasket gives a watertight seal, and the light lacquer finish provides extra protection.



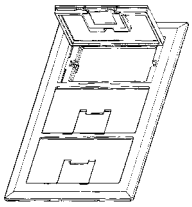


*One-Gang*



*Two-Gang*





*Three-Gang*

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**Features:**

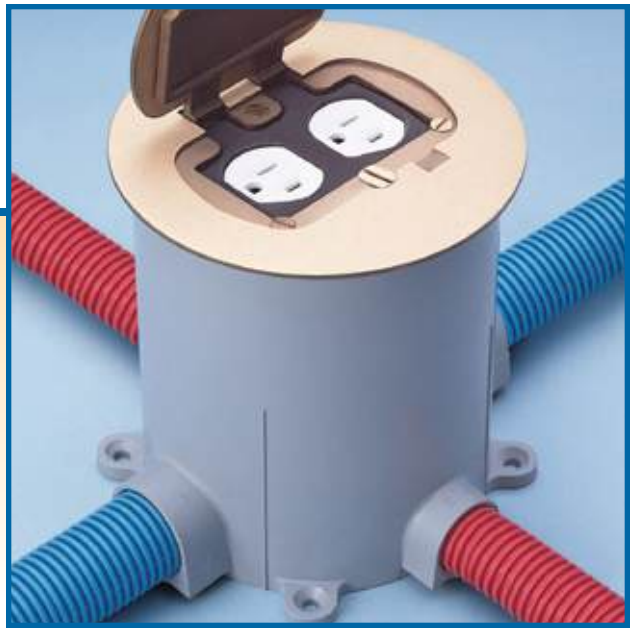
- Rugged construction
- Coated with a light lacquer finish for extra protection
- Covers include a cord door
- Gasketed for watertight applications
- Accepts single, duplex, GFCI and low-voltage receptacles
- For tile and carpet applications
- UL scrubwater tested

| CAT. NO. | SIZE | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| **E9761BR** | One-Gang | Brass | 3 | 6.8 |
| **E9762BR** | Two-Gang | Brass | 3 | 9.9 |
| **E9763BR** | Three-Gang | Brass | 3 | 12.1 |
| **E9761SS** | One-Gang | Stainless Steel | 3 | 7.4 |
| **E9762SS** | Two-Gang | Stainless Steel | 3 | 11.6 |
| **E9763SS** | Three-Gang | Stainless Steel | 3 | 17.2 |
| ***Rectangular Floor Box Activation Kit*** | | | | |
| **E976AK2** | — | — | 3 | 1.3 |

## Round Floor Boxes

# Three-way versatility for power, data and communications. Carlon® Round Floor Box Systems

Carlon® round floor boxes give you the same cost-saving advantages over metal boxes as our rectangular boxes. By combining power, data and communications in the same box, you can dramatically reduce your installation time and cost compared to other non-metallic boxes. In addition, multi-use covers mean fewer SKUs to deal with and greater jobsite flexibility to increase your savings further. Take a closer look at all their advantages.



**Features:**

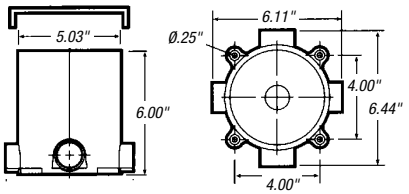
- Non-metallic PVC construction, watertight gasket and corrosion-resistant hardware ensure long life and reliable performance, even in harsh and/or corrosive environments
- Covers are available for a variety of applications
- The same box depth simplifies ordering and reduces inventory
- For tile and carpet applications
- Cover options include: Brass, Stainless Steel and Non-Metallic (Ivory, Caramel, Taupe, Slate and Brown)
- Concrete tight and suitable for any on-grade/below-grade application; concrete or wood floor construction approved
- Y-connector (E972Y) enables you to feed parallel runs of ¾" conduit or to feed in/out from the same side for increased wiring flexibility and faster installation
- PVC-molded ports and reducer plugs included
- Accepts ½", ¾" and 1" conduit, tubing or raceway
- UL scrubwater tested, approved for all types of finish flooring

## Round Floor Box

Carlon® Round Floor Boxes enable various thicknesses of concrete pours. Trim out is easy — just use a handsaw to cut off box at desired height to accommodate carpet, tile or other flooring. Carlon® leveling ring guarantees a level top every time, even if the box is tipped slightly during the pouring process.

LISTED
E11461

| CAT. NO. | INTERNAL VOLUME (CU. IN.) | MIN. CONCRETE DEPTH (IN.) | HUBS (IN.) | REDUCER PLUGS (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|
| E971FB | 90.0 (15.5 per inch of depth) | 3½ | (2) 1 and (2) ¾ | (2) 1 x ¾ and (2) ¾ x ½ | 10 | 15.6 |






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# Accessories

## Multi-Service Divider Kit

The Multi-Service Divider Kit for separate power, data and communications compartments provides unbeatable flexibility and money-saving installation speed.

For use with non-metallic boxes only.



LISTED E11461

| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| E973K | 10 | 3 |

## ¾" Y Fitting

The ¾" Y Fitting provides for in-and-out service from a single 1" port, and provides two ¾" parallel conduit runs to adapt into a single-conduit body port.



LISTED E11461

| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| E972Y | 10 | 2.1 |

## Reducer Plugs



LISTED E11461

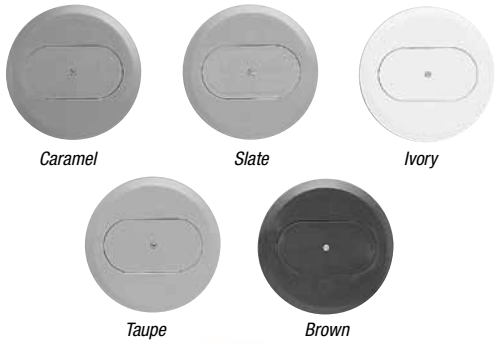
| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E971C | ¾ x ½ | 100 | 2.1 |
| E971D | 1 x ¾ | 100 | 3.2 |

## Non-Metallic Covers for Round Floor Boxes

LISTED E11461

**Features:**

- High impact-resistant thermoplastic
- Compatible with standard NEMA Duplex and 1¼" NPS receptacles
- Drill points (⅜") provided for low-voltage cable pass throughs
- 1¼" NPS plugs may be modified to accept smaller fittings (⅜", ½" and ¾")
- For tile and carpet applications
- UL scrubwater tested, approved for all types of finish flooring






### Duplex Covers

| CAT. NO. | COLOR | DESCRIPTION | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| E97DSI | Ivory | Duplex Cover | 10 | 5.2 |
| E97DSC | Caramel | Dulpex Cover | 10 | 5.7 |
| E97DST | Taupe | Duplex Cover | 10 | 5.7 |
| E97DSS | Slate | Duplex Cover | 10 | 5.6 |
| E97DSB | Brown | Duplex Cover | 10 | 5.8 |

### 1¼" NPS Covers

| CAT. NO. | COLOR | DESCRIPTION | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| E97SSRB | Brown | NPS Cover | 10 | 3.8 |
| E97SSRC | Caramel | NPS Cover | 10 | 3.8 |
| E97SSRS | Slate | NPS Cover | 10 | 3.8 |

### Clear Cover Carpet Ring

| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E97CCR | Clear | 10 | 1.2 |

## Round Floor Boxes

# Brass and Stainless Steel Covers for Round Floor Boxes

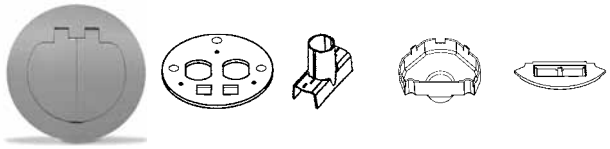
c UL us LISTED E11461



**Features:**

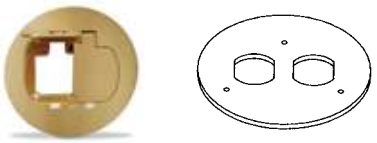
- Screws concealed under doors
- Rugged construction
- Coated with a light lacquer finish for extra protection
- Resistance to wear — suited for high-traffic areas
- Gasketed for watertight applications
- Available in four styles — Single Door, Two Door, NPS Opening and Two-Door Dual Service
- For tile and carpet applications
- UL scrubwater tested

### Two-Door Dual Service (Divider Kit included)



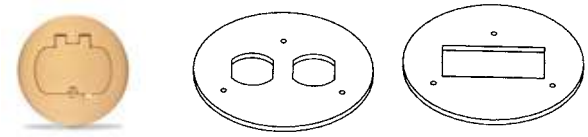
| CAT. NO. | COVER | DEVICES | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| **E97BR2D** | Brass | Duplex and Two Data Ports | 5 | 9.2 |
| **E97SS2D** | Stainless Steel | Duplex and Two Data Ports | 5 | 9.1 |

### Two Door



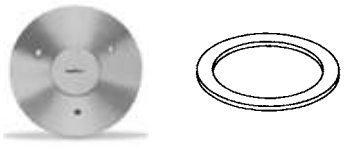
| CAT. NO. | COVER | DEVICES | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| **E97BR2** | Brass | Duplex | 5 | 7 |
| **E97SS2** | Stainless Steel | Duplex | 5 | 7.7 |

### Single Door



| CAT. NO. | COVER | DEVICES | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| **E97BR** | Brass | GFCI and Duplex | 5 | 7 |
| **E97SS** | Stainless Steel | GFCI and Duplex | 5 | 7.9 |

### NPS Opening



| CAT. NO. | COVER | DEVICES | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| **E97BRG** | Brass | 1¼" Outlet and Single Receptacle | 5 | 7.5 |
| **E97SSG** | Stainless Steel | 1¼" Outlet and Single Receptacle | 5 | 8.1 |

### Metal Cover Adapter Ring



| CAT. NO. | DEVICES | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| **E97ABR2** | One-Piece Metal Cover Adapter | 5 | 9.2 |

***Note:*** *Carlon® metal cover adapter ring (E97ABR2) is required with these covers (sold seperately).*



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## Recessed Pop-Up Receptacle

# Concealed receptacle provides a safe and aesthetic solution for countertop power.

NEW!

# Recessed Pop-Up Receptacle

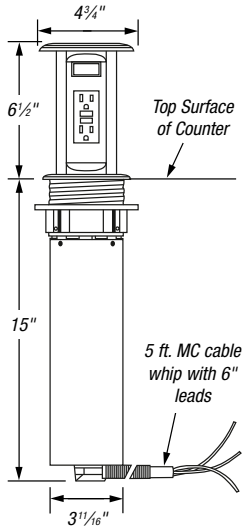


Now you can provide power for small appliances on kitchen island counter tops safely and conveniently with the new Carlon® Recessed Pop-Up Receptacle. When not in use, the receptacle remains concealed beneath the counter, showing only a stylish nickel, bronze or brass cover. Simply press down slightly on the cover to release the latch, and the Recessed Pop-Up Receptacle rises, revealing a duplex GFCI outlet. The Pop-Up Receptacle can also be mounted in bath counters or other work surfaces.

In addition to promoting safety by eliminating hanging power cords and providing a tamper-resistant GFCI receptacle, the Recessed Pop-Up Receptacle also includes gaskets under the flange and around the main body to prevent spilled liquids from entering the electrical enclosure, regardless of whether the receptacle is open or closed. The Recessed Pop-Up Receptacle is the first device to pass the new UL® Spill Test developed specifically for receptacles of this type.

### Features

- Provides a duplex GFCI outlet in a kitchen island or peninsula counter for easy access to power for small appliances
- Eliminates the potential safety hazard of power cords hanging over the edge of counters to reach side-mounted outlets
- Meets new UL® and NEC® requirements for receptacles mounted in kitchen counters
- Receptacle remains recessed below counter when not in use
- To access outlet, simply press down on cover and the receptacle pops up
- Cover available in three finishes to match any kitchen décor — nickel, oil-rubbed bronze or brass
- Ideal countertop power solution for kitchens, baths and other work surfaces






### Specifications

**Cover Size:** 4¾" diameter

**Mounting Hole:** 3¾" Diameter

**Outlet:** (1) duplex tamper-resistant GFCI receptacle — 15A, 125VAC, 60Hz, 20A Feed-Through

**MC Cable Whip:** 12/2 with ground wire, 5' long with 6" leads

**Listings/Compliances:**

– UL® 943

– CSA C22.2 No. 144.1

– NEC® Article 210.52(C)(5)

– NEC® Article 406.5(E)

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| CAT. NO. | DESCRIPTION | STD. PKG. QTY. |
|---|---|---|
| KPR-15G-NKL | Recessed Pop-Up Receptacle with Duplex GFCI and Nickel Finish Cover | 1 |
| KPR-15G-BRZ | Recessed Pop-Up Receptacle with Duplex GFCI and Oil-Rubbed Bronze Finish Cover | 1 |
| KPR-15G-BRS | Recessed Pop-Up Receptacle with Duplex GFCI and Brass Finish Cover | 1 |

## Retractable Work Surface Receptacle

# Concealed receptacle provides safe and convenient desktop power.

## Retractable Work Surface Receptacle

NEW!

With the variety of electronics and powered devices today, convenient power outlets in the home and office are critical. While phone chargers, laptops, appliances and other devices are typically located on work surfaces, outlets are often located underneath the work surface, along the wall or on the floor. Repeatedly accessing these outlets is an inconvenience and poses safety hazards.

The new Carlon® Retractable Work Surface Receptacle provides a convenient outlet right where you need it. A hole saw is included that attaches to your power drill to quickly mount the receptacle in a counter, desk or similar work surface. A 6-ft. cord connects to an existing wall or floor outlet, so no wiring is required. Simply pull up the receptacle's cover to raise the unit above the work surface and plug in a device. When not in use, push the cover down to store the receptacle below the work surface. The non-metallic cover is black to complement most home or office decor.

- Provides easy access to a power outlet — simply pull up the receptacle to plug in a device
- 6-ft. cord plugs into an existing floor or wall outlet
- Receptacle remains hidden below work surface when not in use
- Compact design occupies minimal space both when recessed and while in use
- Rotated receptacle orientation accommodates oversized power adapters
- Hole saw included
- cULus Listed, File Number E340129 (per UL® 962A, Furniture Power Distribution Units)






c UL us LISTED

| CAT. NO. | DESCRIPTION | STD. PKG. QTY. |
|---|---|---|
| RWSR | Recessed Pull-Up Receptacle, Black, 6 ft. cord with three-prong plug | 1 |



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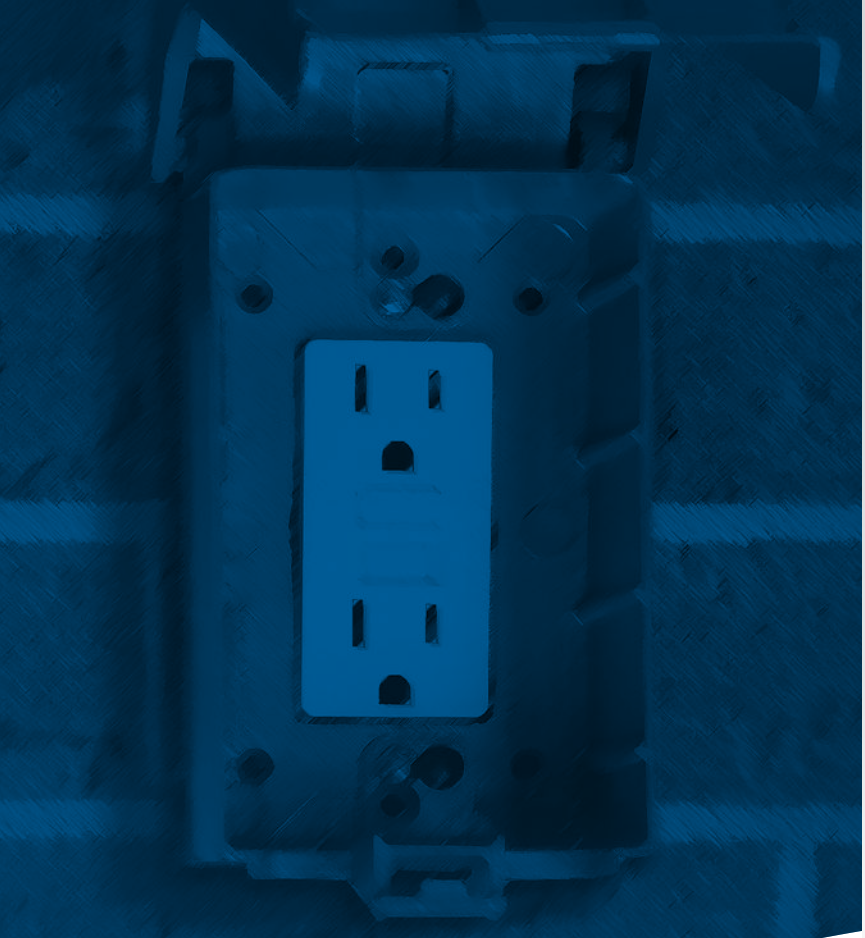
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redodot®

# Red•Dot® Weatherproof Boxes & Covers



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## Overview

# Weatherproof Boxes, Covers and Lighting Products

The industry's preferred choice for more than 50 years — Red•Dot® Weatherproof Boxes and Covers withstand the harshest elements and ensure trouble-free installation and performance.



## Boxes

Red•Dot® boxes are made from durable die-cast aluminum and available in single- and double-gang rectangular as well as round configurations — with a variety of hub sizes to meet all needs.



## Lighting

Red•Dot® has a complete lighting package for both general purpose outdoor lighting as well as decorative garden lights. All lighting products run off line voltage, providing more flexibility and brighter lighting than low-voltage or solar-powered sets, plus no additional transformers are required.



## While-in-Use

Red•Dot® offers a wide variety of both metallic and non-metallic while-in-use covers. All of these covers help ensure that you meet the requirements of the National Electrical Code®.



## D-PAK®

With a descriptive, easy-to-read label and display-ready packaging, the display packs make it quick and easy to put Red•Dot® out for customers to see.




## Covers

Red•Dot® die-cast flip-lid weatherproof covers protect any outdoor receptacle from the elements. Constructed from rugged die-cast zinc, these covers will last a lifetime. A full line of non-metallic covers is also available.



## Merchandisers

With your choice of various stock displays or a customized display to fit your needs, Red•Dot® makes it easy to increase your counter sales.



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## Weatherproof Metallic Covers

# Wet or Dry, All Outlets Can Go Undercover with Code Keeper®

## Code Keeper® Weatherproof Covers

### Code Keeper® While-In-Use Applications

Weatherproof Covers are required by the National Electrical Code® anyplace where water may come in contact with electrical outlets when a plug is in use. Code Keeper® covers are also ideal anywhere to prevent accidental disconnects, reduce tampering and to provide a lockable cover that meets OSHA requirements.



### Suggested Applications:



**Residential** — holiday and landscape lighting, wells and sump pumps, sprinkler systems, plug-in timers, garages, patios.

**Commercial** — vending machines, car washes, outdoor signs, restaurant kitchens, greenhouses and nurseries, marinas, garages, lumberyards.





**Industrial** — manufacturing areas, food processing, water treatment plants, security cameras, laboratories, washdown areas, loading docks.

**Recreational** — pools and spas, parks, playgrounds, zoos, RV connections, athletic fields, ball parks, stadiums, outdoor stages, amphitheaters, golf courses.



**National Electrical Code® Section 406.9(B):**

(1) 15- and 20-Ampere, 125- and 250-Volt receptacles installed outdoors in a wet location shall have an enclosure that is weatherproof whether or not the attachment plug cap is inserted.

CODE KEEPER® THE WET LOCATION COVER

The electrical code is the reason you need a wet-location cover, but the reasons to buy Code Keeper® covers are simple: aluminum construction, easy installation with instructions in English, Spanish and French and a lifetime warranty from a manufacturer that has defined reliability in electrical construction materials for more than half of a century.

Cover the code with protection that lasts a lifetime with Code Keeper® covers.

The National Electrical Code® requires you to cover outdoor or other wet-location receptacles any time they are in use to ensure the safety of anyone who may come in contact with them.

Code Keeper® covers are corrosion-resistant, aluminum wet-location covers that meet the requirements of the National Electrical Code® and are backed by a lifetime warranty.

Red•Dot® Code Keeper® wet-location cover is NEMA 3R Rated, UL Listed and CSA Certified and meets all the requirements of NEC® Section 406.9(B). Code Keeper® covers are rugged, corrosion-resistant metal construction that provide long-lasting durability and are not subject to cracking or breaking. Made with the same Red•Dot® quality that contractors know and trust, Code Keeper® covers offer a lifetime of use and safety.

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# Weatherproof Metallic Covers

## Code Keeper® Metallic While-In-Use Covers

**Applications:**

- Protects receptacles, switches and plugs for single-gang and two-gang configurations in dry and wet locations
- Provides a lockable cover that complies with OSHA lockout/tagout requirements
- Prevents accidental equipment disconnects, reduces tampering and deters theft and equipment removal

**Features/Benefits:**

- Alloy A360 copper-free* aluminum provides increased corrosion resistance
- Die-cast, metal construction provides long-lasting durability
- NEMA 3R Rating ensures protection against falling rain, sleet and external ice formation when used with appropriate device boxes
- Clear UL® and CSA markings speed approval by inspectors
- Wide range of cover depths and receptacle configurations accommodate almost every common plug and cord size when combined with included adapter plates
- Combination box or device mounting design provides flexibility in installation
- Trilingual instructions help to make installation easy for everyone

**Standard Materials:**

- Covers and Plates: Die-cast aluminum alloy A360 with less than .004 copper content (copper-free)
- Gaskets: Closed-cell foam

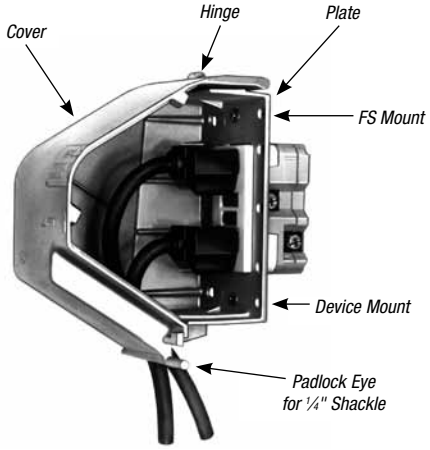
**Standard Finish:**

- Powder-coated finish

**Compliances:**

- NEC® Section 406.9(B)
- UL® Listed
- CSA Certified

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**Sample Specifications:**

- Code Keeper® covers shall comply with NEC® Section 406.9(B) and be die-cast copper-free* aluminum alloy A360. Covers shall be finished powder-coated paint.

Red•Dot® Catalog No. _____

**Less than .004 copper content.*

All 15- and 20-Ampere, 125- and 250-Volt receptacles installed outdoors in a wet location must have an enclosure that is weatherproof whether or not the attachment plug is inserted.

Code-Keeper® is required by the National Electrical Code® Section 406.9(B) for unattended in-use plugs in wet locations.

- Die-cast A360 aluminum alloy (less than .004% copper content)
- NEMA 3R Rating
- Clear UL® and CSA markings
- Wide range of cover depths and receptacle configurations
- Sturdy lockable cover tab complies with OSHA lockout/tagout requirements
- Combination box- or device-mount design (for most styles)
- Powder-coated finish
- "Extra-Duty" per NEC® Section 406.9(B)(1)



*Single-Gang Medium Horizontal*



*Single-Gang Small Vertical*



*Single-Gang Medium Vertical*



*Single-Gang Large Vertical*



*Two-Gang*



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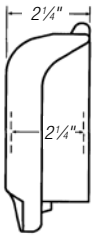
## Weatherproof Metallic Covers

# Code Keeper® Metallic While-In-Use Covers — Single-Gang

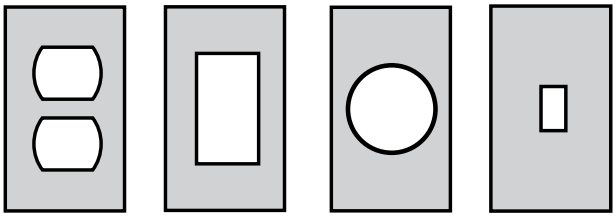
"Extra-Duty" per NEC® Section 406.9(B)(1)

### CKSUV — Small Vertical Cover, 2¼" Internal Depth






Use for any of these configurations:

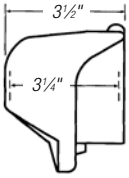


Duplex | GFCI | Single Receptacle up to 1⁹⁄₁₆" | Switch

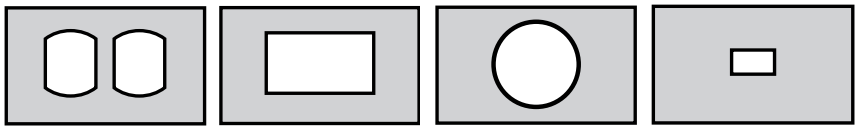
**Note:** Covers packed with gasket and screws.

### CKMU — Medium Horizontal Cover, 3¼" Internal Depth






Use for any of these configurations:

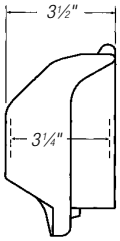


Duplex | GFCI | Single Receptacle up to 1⁹⁄₁₆" | Switch

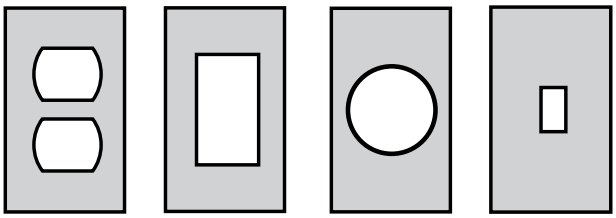
**Note:** Covers packed with gasket and screws.

### CKMUV — Medium Vertical Cover, 3¼" Internal Depth






Use for any of these configurations:

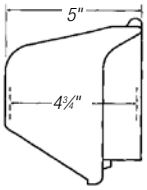


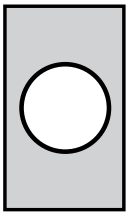
Duplex | GFCI | Single Receptacle up to 1⁹⁄₁₆" | Switch

**Note:** Covers packed with gasket and screws.

### CKLSVU — Large Vertical Cover, 4¾" Internal Depth





Single Receptacle up to 2.125"

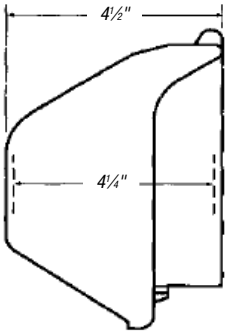
**Note:** Covers packed with gasket and screws.

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## Weatherproof Metallic Covers

# Code Keeper® Metallic While-In-Use Covers — Two-Gang

### 2CKU — Regular Cover, 4¼" Internal Depth



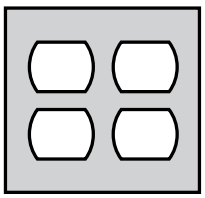




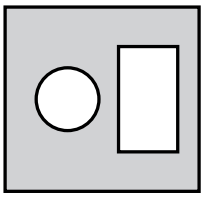
***Note:*** *Dry-tite® covers packed with gasket and screws.*

** Can be used to cover one receptacle with an oversized wall opening.*

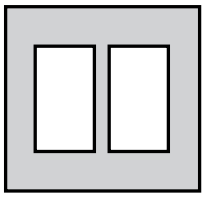
*Use for any of these configurations:*



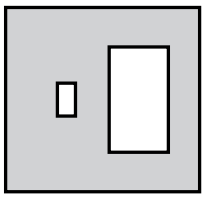
*Two-duplex receptacle cover*



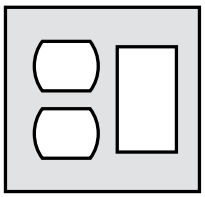
*Single up to 1⅜" and GFCI receptacle cover*



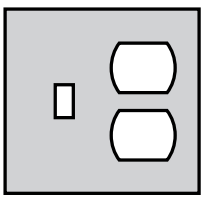
*Two-GFCI receptacle cover*



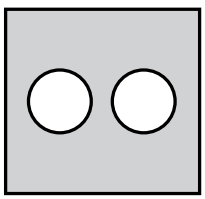
*Toggle and GFCI receptacle cover*



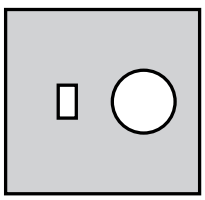
*Duplex and GFCI receptacle cover*



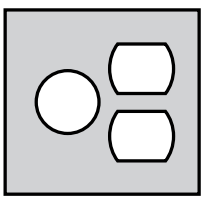
*Toggle and duplex receptacle cover*



*Two-single up to 1⅜" receptacle cover*



*Toggle and single up to 1⅜" receptacle cover*



*Single up to 1⅜" and duplex receptacle cover*

**"Extra-Duty" per NEC® Section 406.9(B)(1)**

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*



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Tel: 888.862.3289

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## Weatherproof Metallic Covers

# Universal Design Installs in Both Horizontal and Vertical Applications.

NEW!

# Universal Flip-Lid Weatherproof Cover

New Red•Dot® Universal Flip-Lid Weatherproof Covers save you time and money by reducing the number of items you have to inventory to complete a job. Capable of mounting either vertically or horizontally, the covers provide added versatility with innovative adapter plates to support all of the most common installation configurations — 12 with the single-gang cover and 25 with the 2-gang cover. Choose from silver, bronze or white covers.



### Features:

- Included adapter plates offer 12 installation options with single-gang cover and 25 installation options with 2-gang cover
- Keyhole openings on back enable easy installation on an existing outlet
- Durable, die-cast zinc-alloy construction
- Suitable for use in wet locations with cover closed
- Available in silver, bronze and white
- Lockable for security when not in use
- Easy access to outlet with 130° opening
- Preconfigured for GFCI — the industry's most common outdoor application

## Accommodates Multiple Outlet Configurations (receptacles not included)



*GFCI*



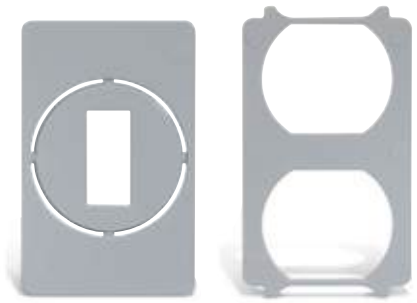
*Duplex*



*Single Receptacle*

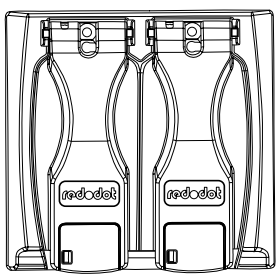


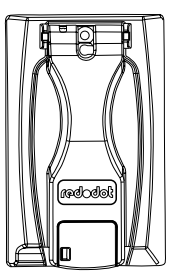
*Switch*



*Includes Two Adapter Plates, Single Receptacle up to 1 9/16"*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **CCU** | Single-Gang Cover (installs vertically or horizontally) — Silver | 50 |
| **DCCU** | D-PAK® — Single-Gang Cover, Silver | 25 |
| **DCCU-BR** | D-PAK® — Single-Gang Cover, Bronze | 25 |
| **DCCU-WH** | D-PAK® — Single-Gang Cover, White | 25 |
| **2CCU** | 2-Gang Cover — Silver | 10 |
| **2CCU-BR** | 2-Gang Cover — Bronze | 10 |
| **2CCU-WH** | 2-Gang Cover — White | 10 |





# Weatherproof Metallic Covers

## Single-Gang Device Covers


CCD


CCDV


CCG


CCGV

| CAT. NO. | COLOR | DESCRIPTION |
|---|---|---|
| ***Duplex Receptacle Cover, Horizontal*** | | |
| **CCD** | Silver | Device Mount |
| **CCD-L** | Silver | Device Mount with Lock Option |
| **CCD-FS** | Silver | Box Mount |
| **WR81-CN** | Natural | Cover, Stay-Open Lid |
| **WRH80-C** | Gray | Cover, Self-Closing Lids |
| ***D-PAK®*** | | |
| **DCCD-P** | Silver | Non-Metallic Device Mount |
| **DCCD** | Silver | Device Mount |
| **DCCD-BR** | Bronze | Device Mount |
| **DCCD-WH** | White | Device Mount |
| **DCCDSO** | Silver | Device Mount, Stay Open |
| **DCCDSO-BR** | Bronze | Device Mount, Stay Open |
| **DCCDSO-WH** | White | Device Mount, Stay Open |
| ***Duplex Receptacle Cover, Vertical*** | | |
| **CCDV** | Silver | Device Mount |
| **CCDV-L** | Silver | Device Mount with Lock Option |
| ***D-PAK®*** | | |
| **DCCDV** | Silver | Device Mount |
| **DCCDV-BR** | Bronze | Device Mount |
| **DCCDV-WH** | White | Device Mount |
| ***GFCI Receptacle Cover, Horizontal*** | | |
| **CCG** | Silver | Device Mount |
| **CCG-FS** | Silver | Box Mount |
| ***D-PAK®*** | | |
| **DCCG** | Silver | Device Mount |
| **DCCG-BR** | Bronze | Device Mount |
| **DCCG-WH** | White | Device Mount |
| ***GFCI Receptacle Cover, Vertical*** | | |
| **CCGV** | Silver | Device Mount |
| **CCGV-L** | Silver | Device Mount with Lock Option |
| ***D-PAK®*** | | |
| **DCCGV** | Silver | Device Mount |
| **DCCGV-BR** | Bronze | Device Mount |
| **DCCGV-WH** | White | Device Mount |

***Note***: *All covers packed with gasket and screws.*


CCS


CCSV


CCSV-TL


CCMB

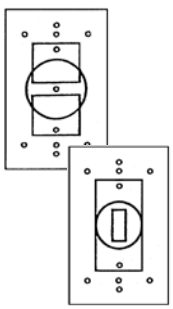

CCT-1

| CAT. NO. | COLOR | DESCRIPTION |
|---|---|---|
| ***Single Receptacle Cover, Horizontal — 1.485" Diameter Opening*** | | |
| **CCS** | Silver | Device Mount |
| ***Single Receptacle Cover, Vertical — 1.59"/2.156" Diameter Opening*** | | |
| **CCSV** | Silver | Device Mount |
| **CCSV-L** | Silver | Device Mount with Lock Option |
| **CCPO** | Silver | Power Outlet Cover with 2.156" Diameter Opening, Box Mount |
| **CCPO-L** | Silver | Box Mount with Lock Option |
| ***Single Receptacle Cover, Vertical — 1.59" Opening*** | | |
| **CCSV-TL** | Silver | Device Mount Integral Locking Hasp |
| ***Motor Base Plug and Cover, Horizontal*** | | |
| **CCMB** | Silver | Device Mount 15A, 125V Motor Base Plug |
| ***Switch Cover Only*** | | |
| **CCT** | Silver | Device Mount Switch Cover Only, Packed with Spacers and Screws |
| ***Switch Cover with Switch*** | | |
| **CCT-1** | Silver | Single-Pole 15A, 125V |
| **CCT-1-20** | Silver | Single-Pole 20A, 120-277V |
| **CCT-3** | Silver | 3-Way Switch 15A, 125V |
| ***Note***: *Raintight when used with appropriate Red•Dot® boxes.* | | |
| **SW1** | Silver | One-Gang Cover with 10A, 125V Single-Pole Switch |
| **SW2** | Silver | One-Gang Cover with 10A, 125V Double-Pole Switch |
| **SW20-1/710** | Silver | One-Gang Cover with 20A, 102/277V Single-Pole Switch (special oil- and gas-resistant gasket) |
| **SW20-2** | Silver | One-Gang Cover with 20A, 102/277V Double-Pole Switch |
| **SW20-2/710** | Silver | One-Gang Cover with 20A, 102/277V Double-Pole Switch (special oil- and gas-resistant gasket) |

*UL Listed E-18407.*

*CSA Certified LR-18685.*

## Single-Gang Gaskets



| CAT. NO. | COLOR | DESCRIPTION |
|---|---|---|
| **CCK** | Black | Neoprene |
| **CCSK** | Black | Neoprene |



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# Weatherproof Metallic Covers

## Two-Gang Device Covers

| | CAT. NO. | DESCRIPTION |
|---|---|---|
| ***Two-Duplex Receptacle Cover*** | | |
|  | **2CCD** | Device Mount |
| | **2CCD-L** | Device Mount with Lock Option |
| | **WR281-CBR** | Cover, Self-Closing Lids |
| | **WR281-C-WH** | Cover, Self-Closing Lids |
| ***Two-GFCI Receptacle Cover*** | | |
|  | **2CCG** | Device Mount |
| ***One Duplex and One GFCI Receptacle Cover*** | | |
|  | **2CCDG** | Device Mount |
| ***Two-Single Receptacle Cover — 1.485" Diameter Opening*** | | |
|  | **2CCS** | Device Mount |
| | **2CCS-L** | Device Mount with Lock Option |
| ***One Single Receptacle and One Duplex Receptacle Cover — 1.485" Diameter Opening*** | | |
|  | **2CCSD** | Device Mount |
| ***Single Receptacle and One GFCI Receptacle Cover — 1.485" Diameter Opening*** | | |
|  | **2CCSG** | Device Mount |
| | **2CCSG-L** | Device Mount with Lock Option |
| | **WR74-81-C** | Cover, Self-Closing Lids, Opening Diameter |
| ***Double Switch Cover*** | | |
|  | **2CCT** | Cover Only, Packed with Spacers |
| | **2CCT-1** | Cover with Two Single-Pole 15A, 125V Switches and Spacers |

| | CAT. NO. | DESCRIPTION |
|---|---|---|
| ***Switch and One Duplex Receptacle Cover*** | | |
|  | **2CCTD** | Cover Only, Packed with Spacers |
| | **2CCTD-1** | Cover with One Switch Single-Pole 15A, 125V and One Duplex Receptacle and Spacers |
| ***Switch and One GFCI Receptacle Cover*** | | |
|  | **2CCTG** | Device Mount Cover Only with Spacers |

***Note***: *Raintight when used with appropriate Red•Dot® boxes.*

*All covers packed with gasket and screws.*

## Blank Covers

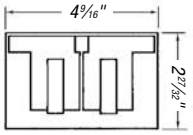
| | CAT. NO. | COLOR | DESCRIPTION |
|---|---|---|---|
| ***Single-Gang*** | | | |
|  | **CCB** | Silver | Device Mount |
| | **CCB-FS** | Silver | Box Mount |
| | ***D-PAK®*** | | |
| | **DCCB** | Silver | Device Mount |
| | **DCCB-BR** | Bronze | Device Mount |
| | **DCCB-WH** | White | Device Mount |
| ***Two-Gang*** | | | |
|  | **2CCB** | Silver | Device Mount |
| | **2CCB-FS** | Silver | Box Mount |
| | ***D-PAK®*** | | |
| | **D2CCB** | Silver | Device Mount |
| ***Three-Gang*** | | | |
|  | **3CCB** | Silver | Box Mount |

***Note***: *Raintight when used with appropriate Red•Dot® boxes.*

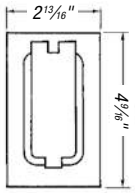
*All covers packed with gasket and screws.*

# Weatherproof Metallic Covers

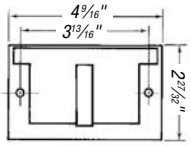
## Single-Gang Covers



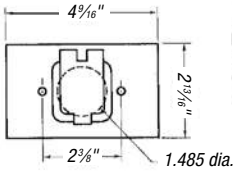

CCD



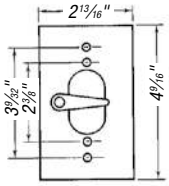

CCDV & CCGV



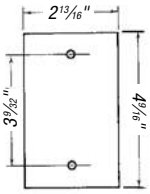

CCG



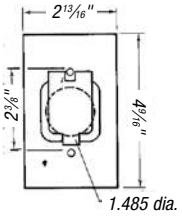

CCS



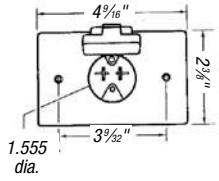

CCT



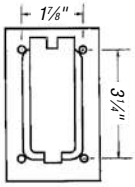

CCB




CCSV

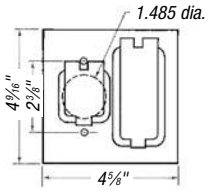



CCMB

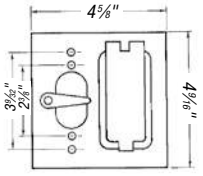



Typical FS Mount
Hole Pattern

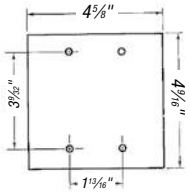
## Two- and Three-Gang Covers



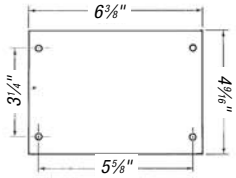

2CCSD & 2CCSG



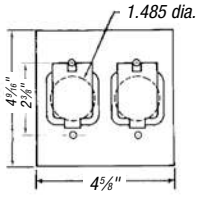

2CCTD



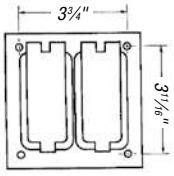

2CCB



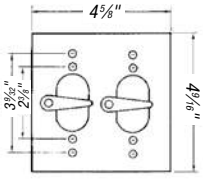

3CCB



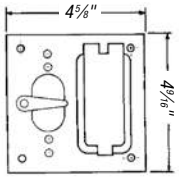

2CCS



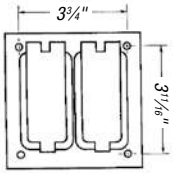

2CCD & 2CCG




2CCT




2CCTG-FS




Typical FS Mount
Hole Pattern



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# Code Keeper® Universal Non-Metallic Recessed Box and Cover

The Code Keeper® Universal Recessed Box and Cover finally solves the problem of needing a while-in-use cover, but not wanting to have a bulky cover on the outside of your home or building. The universal design means that the cover will accommodate a GFCI, duplex, switch or single receptacle up to 9/16", making it the perfect choice for all outdoor outlets.

NEW!



- Horizontal or vertical orientation
- Easily install in new work and old work applications
- Meets NEC® 406.9(B) code requirements
- Lockable cover design for added security using external locking device*
- Accommodates GFCI, duplex, toggle switch and single receptacles up to 9/16" when combined with included inserts**
- High-impact UV-resistant polycarbonate cover
- All installation screws included

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **CKRU-G8** | Gray Box with a Gray Cover, Bulk Packaging | 8 |
| **CKRU-WH8** | White Box with a White Cover, Bulk Packaging | 8 |
| **CKRU-8** | Gray Box with a Clear Cover, Bulk Packing | 8 |

*UL Listed, File No. E11461.*

*CSA Certified.*

** External locking device (such as a padlock) not supplied.*

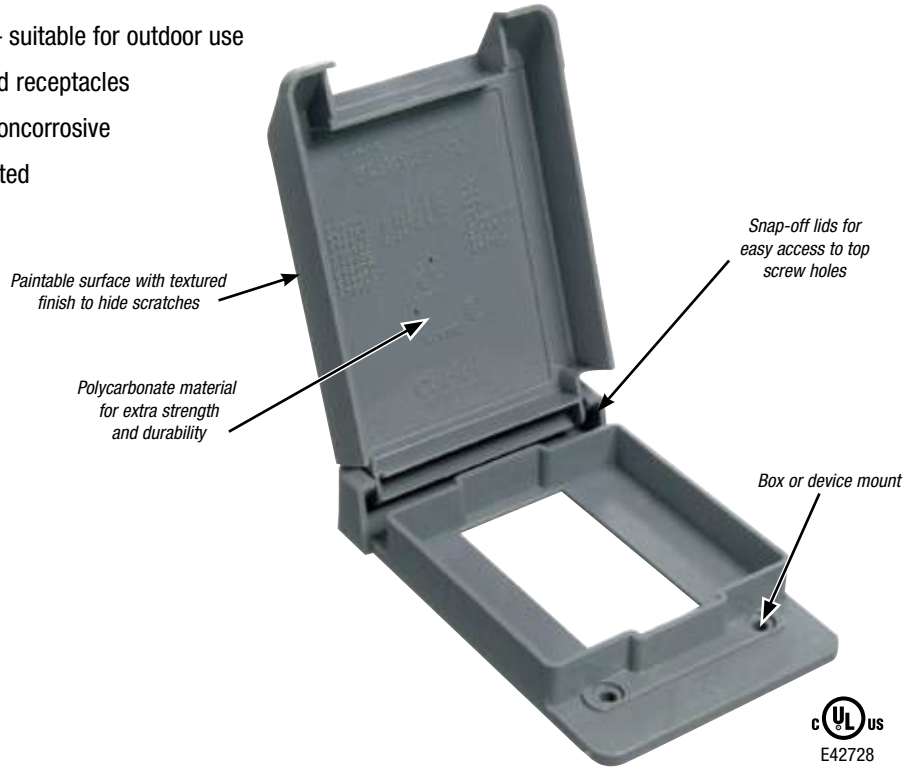
*** Cover fits GFCI, the industry's most commonly used receptacle, without the use of inserts.*

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

## Weatherproof Non-Metallic Covers

# Red•Dot® Non-Metallic Weatherproof Covers

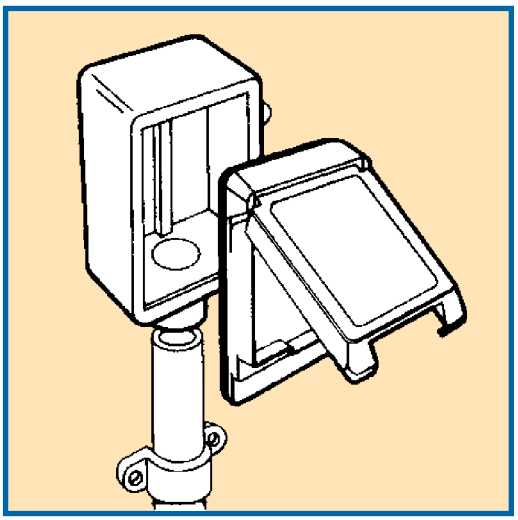
- UV resistant — suitable for outdoor use
- Fits all standard receptacles
- Non-metallic/noncorrosive
- UL® Marine Listed
- CSA Certified




c UL us
E42728

## Installation

- Includes base, cover, gasket and mounting screws



**Box Mounting:**

1. TURN OFF POWER.
2. Place gasket on top of outlet box.
3. Attach the device to the box.
4. Fasten cover to outlet box.

***Note:*** *These covers must be mounted in accordance with all local and NEC®/CEC requirements.*

**Device Mounting:**

1. TURN OFF POWER.
2. Place gasket on top of outlet box.
3. Fasten cover to outlet box.
4. To ensure a weatherproof seal, use a ¼" minimum bead of RTV-type silicone, neoprene, urethane or polyurethane caulking between gasket and mounting surface.

***Note:*** *These covers must be mounted in accordance with all local and NEC®/CEC requirements.*

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**Technical Services**
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## Weatherproof Non-Metallic Covers

# Single-Gang — Vertical Mount

- For use in wet/damp locations
- Mounts to a box or device
- Non-metallic – won't rust or fade
- Paintable
- Easy to install
- Made in the U.S.A.

LR31146

MARINE LISTED E42728

### Duplex Receptacle



| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E98GDRN-CAR | Gray | 10 | 2 |

### GFCI Receptacle

- Device opening dimensions: 2.63" H x 1.31" W



| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E98GFCN-CAR | Gray | 10 | 2 |

### 15-Amp Receptacle

- For 15-Amp or other single receptacles under 1.375" diameter



| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E98SRCN-CAR | Gray | 10 | 2.1 |

### 20-Amp Receptacle

- For 20-Amp or other single receptacles under 1.625" diameter



| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E98G20N | Gray | 20 | 4.1 |

### 30-Amp Receptacle

- For 30-Amp or other single receptacles under 1.750" diameter



| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E98G30N-CAR | Gray | 10 | 2.1 |

### Single Switch



| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E98SSCN-CAR | Gray | 10 | 2.1 |

### Toggle Switch



| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E98TSCN-CAR | Gray | 5 | 1.1 |

### Blank

- Supplied with stainless steel mounting screws and gasket



| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E980CN-CAR | Gray | 12 | 1.60 |
| E980CM-CAR | White | 12 | 1.60 |

### 50-Amp Receptacle

- For 50-Amp or other single receptacles under 2.250" diameter



| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E98G5FN-CAR | Gray | 10 | 2 |

# Weatherproof Non-Metallic Covers

## Single-Gang — Horizontal Mount

### Duplex Receptacle



| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E98DHGN-CAR | Gray | 10 | 3.9 |

### GFCI Receptacle



| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E98GHGN-CAR | Gray | 10 | 1.9 |

*Device opening dimensions: 2.63" W x 1.31" H.*

## Double-Gang

- For use in wet/damp locations
- Mounts to a box or device
- Non-metallic — won't rust or fade
- Paintable
- Easy to install
- Made in the U.S.A.

### Two-Gang Blank

- Supplied with stainless steel mounting screws and gasket



| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E9802CN-CAR | Gray | 10 | 2.17 |

### Double Duplex



| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E9G2DDN-CAR | Gray | 10 | 2.3 |

### Combination Toggle/GFI



| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E9G2GTN-CAR | Gray | 5 | 1.3 |

### Double Toggle



| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E9G2SSN | Gray | 6 | 3.2 |

### Combination Toggle/Duplex Receptacle



| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E9G2DSN-CAR | Gray | 10 | 1.3 |



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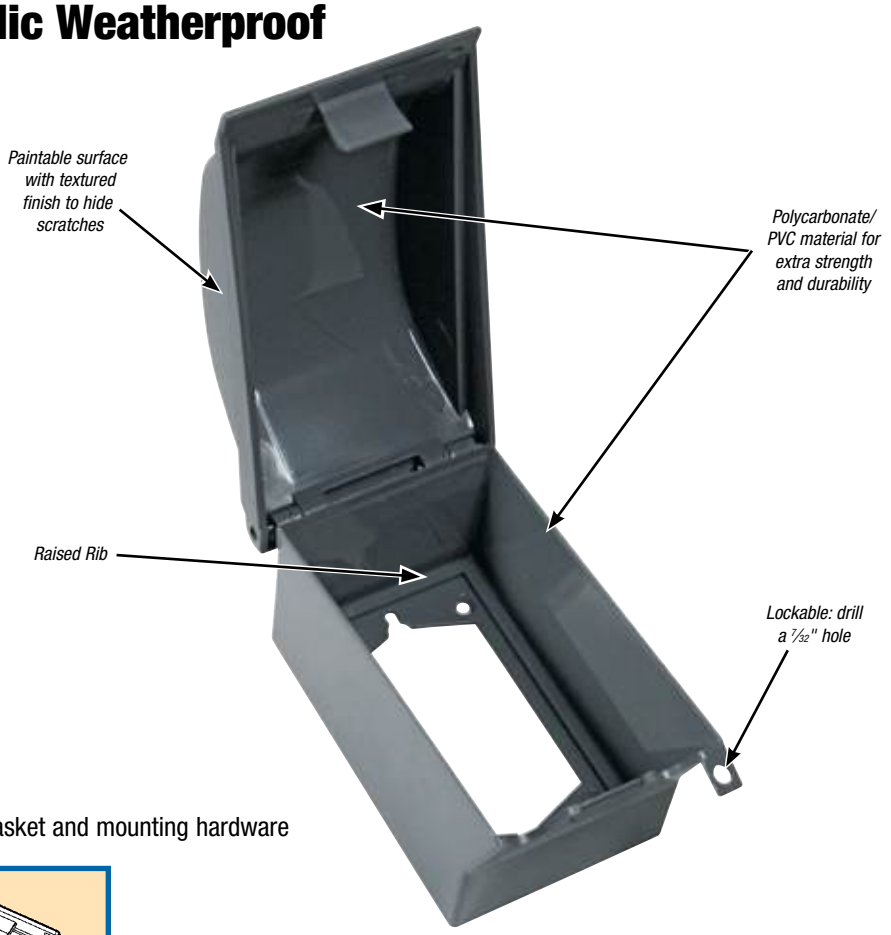
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Tel: 888.862.3289

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# Red•Dot® Non-Metallic Weatherproof While-In-Use Covers

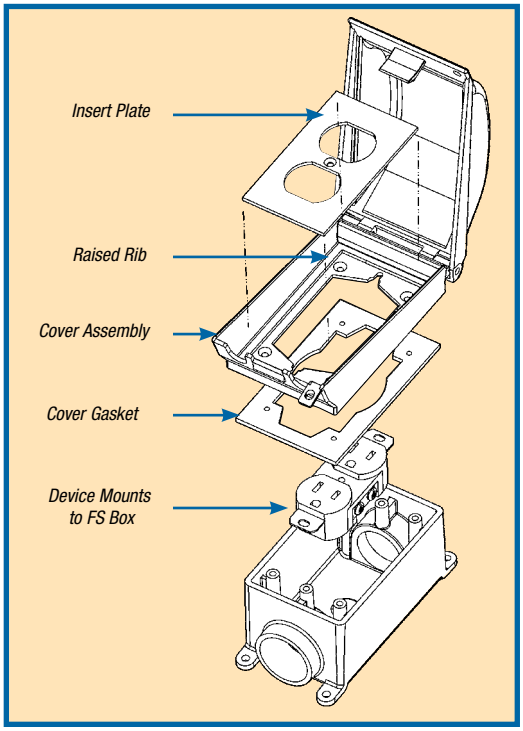


- NEMA Type 3R Rated
- Meets NEC® Section 406.9(B) and CEC Subrule 26-702
- UV resistant — suitable for outdoor use
- Fits all standard receptacles
- Non-metallic/noncorrosive
- UL® Listed
- CSA Certified




## Installation

- Includes base, cover, device plates, gasket and mounting hardware




**Box Mounting:**

1. TURN OFF POWER.
2. Mount electrical device to outlet box.
3. Place gasket on top of outlet box.
4. Fasten cover to outlet box.
5. Secure insert plate to cover.
6. Lockable feature — drill a 7/32" hole in cover — starting point provided.

***Note:*** *These covers must be mounted in accordance with all local and NEC®/CEC requirements.*

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

# Weatherproof Non-Metallic Covers

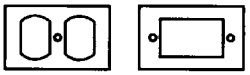
## Single-Gang While-In-Use Covers

- For use in wet/damp locations
- Weatherproof while in use
- Mounts to a box or device
- Non-metallic — won't rust or fade
- Paintable
- Easy to install
- Made in the U.S.A.



*Horizontal Mount*

**Inserts:**



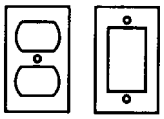
### Standard Covers — 2.53" Depth

| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E9UHGRN2 | Gray | 4 | 2.3 |
| E9UHWRN2 | White | 4 | 2.3 |
| E9UHCRN2 | Clear | 4 | 2.3 |



*Vertical Mount*

**Inserts:**



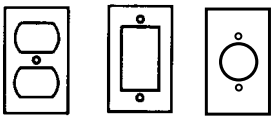
### Standard Covers — 2.64" Depth

| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E9UVGRN2 | Gray | 12 | 7.2 |
| E9UVWRN2 | White | 12 | 7.2 |
| E9UVCRN2 | Clear | 12 | 7.2 |



*Vertical Mount*

Inserts:



### Deep Covers — 4.14" Depth

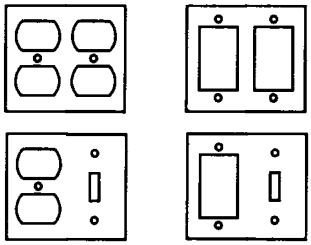
| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E9UDVGRN2 | Gray | 8 | 5.9 |
| E9UDVWRN2 | White | 8 | 5.9 |
| E9UDVCRN2 | Clear | 8 | 5.9 |

## Double-Gang While-In-Use Covers

- For use in wet/damp locations
- Weatherproof while in use
- Mounts to a box or device
- Non-metallic — won't rust or fade
- Paintable
- Easy to install
- Made in the U.S.A.



**Inserts:**



### Standard Covers — 2.64" Depth

| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E9U2GRN2 | Gray | 6 | 5.7 |
| E9U2WRN2 | White | 6 | 5.7 |
| E9U2CRN2 | Clear | 6 | 5.7 |



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## Reinforced Design Withstands Abuse!

NEW!

# Code Keeper® Universal Non-Metallic Weatherproof While-In-Use Covers



Weatherproof covers are subjected to bumps and impacts through everyday use, but the Red•Dot® Code Keeper® Universal Non-Metallic While-In-Use Cover can handle it. Its reinforced design withstands abuse. The robust new hinge provides a sturdy cover attachment that is great for high-traffic areas.

Available in single- or two-gang configurations and standard or deep styles, the Code Keeper® Non-Metallic While-In-Use Cover easily adapts to different outlet configurations. Keyhole mounts make it fast and easy to install since there is no need to remove and replace the receptacle screws — just loosen the existing device screws and slide the cover over. Hinge pin design allows for vertical or horizontal mounting on the single gang.

- Robust new hinge provides a sturdy cover attachment that is great for high-traffic areas
- Available in single- or two-gang configurations and standard or deep styles
- Keyhole mounts make it fast and easy to install — just loosen the existing device screws and slide the cover over
- Covers come with adapter plates and pre-adhered gaskets
- Unique wasp guard included to keep out unwanted pests
- Lockable for security when not in use



| CAT. NO. | DESCRIPTION | STD. PKG. QTY. |
|---|---|---|
| **CKNM-NG*** | Single-Gang Non-Metallic While-In-Use Cover, Clear | 12 |
| **CKNMG-NG*** | Single-Gang Non-Metallic While-In-Use Cover, Grey | 12 |
| **CKNMW-NG*** | Single-Gang Non-Metallic While-In-Use Cover, White | 12 |
| **CKNM-NGD**** | Single-Gang Deep Non-Metallic While-In-Use Cover, Clear | 4 |
| **2CKNM-NG*** | Two-Gang Non-Metallic While-In-Use Cover, Clear | 4 |
| **2CKNM-NGD**** | Two-Gang Deep Non-Metallic While-In-Use Cover, Clear | 4 |

** Standard covers: 2⅞" overall depth.*

*** Deep covers: 4¾" overall depth.*



## Weatherproof Non-Metallic Covers

# Fast and Easy Installation.

# Code Keeper® Universal Non-Metallic Weatherproof While-In-Use Covers

The Code Keeper® Universal While-In-Use covers keep out moisture and take the hassle and cost out of installation. Single- or two-gang kits accommodate up to eight configurations each, and every cover is designed with a method to secure using an external locking device.* Perfect for all outdoor outlets including landscape lighting, lawn equipment, pool/hot tub pumps and holiday lighting.

- Saves you time — no inserts to slow you down, no labor-intensive cutouts
- Horizontal or vertical orientation
- Meets NEC® Section 406.9(B) code requirements
- Lockable cover design for added security using external locking device
- High-impact UV-resistant polycarbonate base construction
- Weatherproof, thermoplastic cover with transparent finish
- Accommodates GFCI, single and duplex receptacles, toggle switches and single receptacles up to 1.59" diameter
- Mounts to a box or the device — all installation screws included
- Choose your base plate and secure to the device, then, snap on the lid and you're done!
- Great for retrofit applications: Device holes are keyed, so just back out the existing device screws and slip the cover over previously installed screws



### Universal Non-Metallic While-In-Use Covers*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **CKNM** | Single-Gang Duplex/GFCI/Switch/Single 1.59 — Horizontal or Vertical — Pad Lockable, 2⅞" Deep | 6 |
| **2CKNM** | Two-Gang Duplex/GFCI/Switch/Single 1.59 — Horizontal or Vertical — Pad Lockable, 2⅞" Deep | 4 |
| **CKNMD** | Deep Single-Gang Duplex/GFCI/Switch/Single 1.59 — Horizontal or Vertical — Pad Lockable, 4¾" Deep | 4 |
| **2CKNMD** | Deep Two-Gang Duplex/GFCI/Switch/Single 1.59 — Horizontal or Vertical — Pad Lockable, 4¾" Deep | 4 |

*UL Listed.*

*CSA Certified.*

*Cover ships as a vertical GFCI, the industry's most commonly used version.*

** External locking device (such as a padlock) not supplied.*

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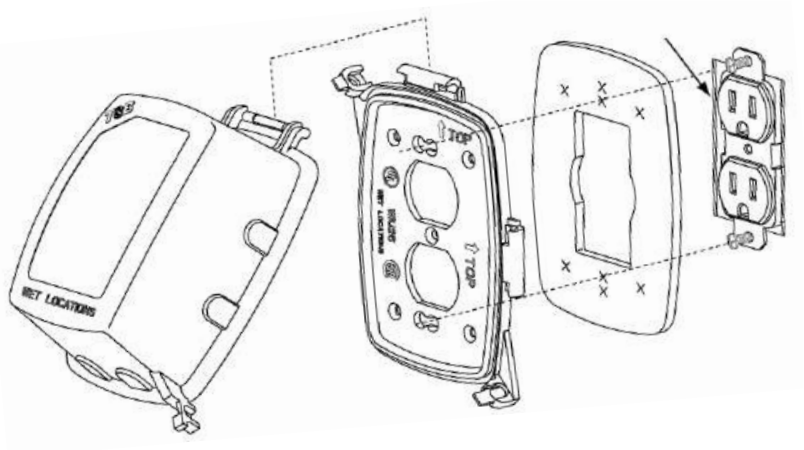
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Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

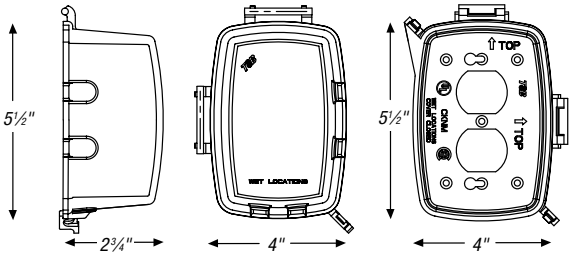
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# Weatherproof Non-Metallic Covers

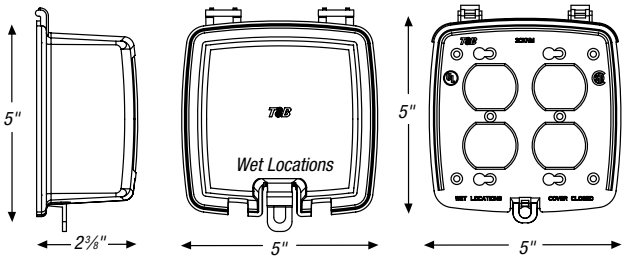




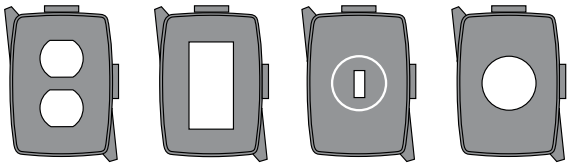

## Single-Gang (CKNM) — Dimensions



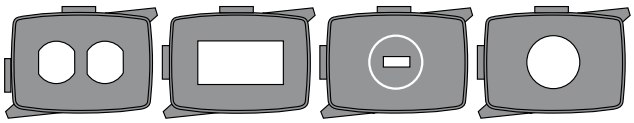

## Two-Gang (2CKNM) — Dimensions




## Single-Gang Base Options



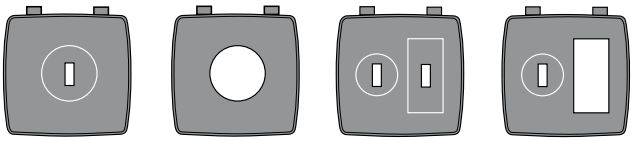
1 2 3 4*



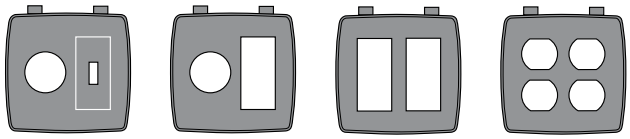
5 6 7 8*

** 1.59" diameter fits up to 30-Amp twist-lock receptacle.*

## Two-Gang Base Options



1 2* 3 4



5** 6** 7 8

** 2.125" Diameter*
*** 1.59" Diameter*

## Weatherproof Metallic Boxes

# Universal Boxes and Covers

**Applications:**

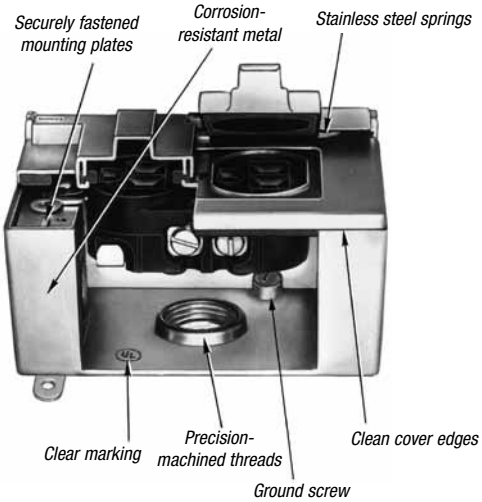
- Dry-tite™ boxes and covers protect wiring devices, switches, electronic components and terminal blocks in dry, damp and wet locations
- Accessible wiring chamber provides a convenient location to maintain or change a system, pull conductors and make splices
- Junction box for branch conduits

**Features/Benefits:**

- Alloy A380 aluminum, certified zinc alloy and stainless steel springs provide increased corrosion resistance
- Die-cast construction and industrial design combine to produce a rugged protective enclosure for devices on many applications
- Clean cover edges provide good gasket sealing
- Precision-cast and machined surfaces permit safer wire pulling
- Clear UL and cubic content markings speed approval by inspectors
- Convenient mounting lugs for a variety of mounting methods
- Securely fastened mounting plates reduce costly call backs

**Standard Materials:**

- Boxes: Die-cast aluminum alloy A380
- Cover Plates: Stamped aluminum alloy or certified die-cast zinc alloy ZAMAK 3
- Cover Lids: Certified die-cast zinc alloy ZAMAK 3




**Standard Finish:**

- Powder-coated finish

**Compliances:**

- UL® Listed (UL File No. E-2969)
- Boxes: CSA Certified with factory installed ground screw**
- Covers: CSA Certified
- Covers suitable for use in wet locations with covers closed
- CCB and CCT series covers suitable for use in wet locations
- Federal Spec. W-C-586
- NEMA 3R Rated

**Sample Specifications:**

- Universal device boxes and covers shall be of aluminum alloy A380 and certified zinc alloy. All conduit stops shall be free of rough edges. Covers shall have stainless steel springs. Covers shall be finished with powder-coated paint. Universal device boxes and covers shall be Red•Dot® Catalog No. _____

*** Consult factory for lead time and minimum quantity.*



*2CCTS*



*2IH5-1*



*CCD*

Accessible wiring chamber provides a convenient location to pull conductors and make splices in dry, damp or wet locations.

- Maximum cubic capacity
- Securely fastened mounting plates
- Corrosion-resistant materials
- Powder-coated finish
- Ground screw included
- Precision-machined threads
- Clear UL and cubic volume marking



*IH3-1-LM*



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# Weatherproof Metallic Boxes



## Single-Gang

| CAT. NO. | HUB SIZE (IN.) | COLOR | OUTLETS | |
|---|---|---|---|---|
| ***Three Outlets*** | | | | |
| **IH3-1** | ½ | Silver | Top | 1 |
| **IH3-2** | ¾ | Silver | Bottom | 1 |
| **IH3-1-LM•** | ½ | Silver | Back | 1 |
| **IH3-2-LM•** | ¾ | Silver | **TOTAL** | **3** |
| ***D-PAK®*** | | | | |
| **DIH3-1-LM•** | ½ | Silver | | |
| **DIH3-1-LM-BR•** | ½ | Bronze | | |
| **DIH3-1-LM-WH•** | ½ | White | | |
| **DIH3-2-LM•** | ¾ | Silver | | |
| **DIH3-3-LM** | 1 | Silver | | |
| ***Four Outlets*** | | | | |
| **IH4-1** | ½ | Silver | Top | 2 |
| **IH4-2** | ¾ | Silver | Bottom | 1 |
| **IH4-1-LM•** | ½ | Silver | Back | 1 |
| **IH4-2-LM•** | ¾ | Silver | **TOTAL** | **4** |
| ***D-PAK®*** | | | | |
| **DIH4-1-LM•** | ½ | Silver | | |
| **DIH4-1-LM-BR•** | ½ | Bronze | | |
| **DIH4-1-LM-WH•** | ½ | White | | |
| **DIH4-2-LM•** | ¾ | Silver | | |
| ***Five Outlets*** | | | | |
| **IIH5-1** | ½ | Silver | Top | 2 |
| **IH5-2** | ¾ | Silver | Bottom | 2 |
| **IH5-1-LM•** | ½ | Silver | Back | 1 |
| **IH5-2-LM•** | ¾ | Silver | **TOTAL** | **5** |
| ***D-PAK®*** | | | | |
| **DIH5-1-LM•** | ½ | Silver | | |
| **DIH5-2-LM•** | ¾ | Silver | | |
| ***Five Outlets (2-Side)*** | | | | |
| **IH5S2-1•** | ½ | Silver | Top | 1 |
| **IH5S2-2•** | ¾ | Silver | Bottom | 1 |
| | | | Side | 1 |
| | | | Side | 1 |
| | | | Back | 1 |
| | | | **TOTAL** | **5** |
| ***Six Outlets (3-Side)*** | | | | |
| **IH6S2-1•** | ½ | Silver | Top | 1 |
| **IH6S2-2•** | ¾ | Silver | Bottom | 1 |
| | | | Side | 2 |
| | | | Side | 1 |
| | | | Back | 1 |
| | | | **TOTAL** | **6** |

***Note:*** *Raintight when used with appropriate Red•Dot® covers. Boxes supplied with 2 closure plugs and ground screw.*

*• With mounting lugs*

## Two-Gang

| CAT. NO. | HUB SIZE (IN.) | OUTLETS | |
|---|---|---|---|
| ***Three Outlets*** | | | |
| **2IH3-1•** | ½ | Top | 1 |
| **2IH3-2•** | ¾ | Bottom | 1 |
| | | Back | 1 |
| | | **TOTAL** | **3** |
| ***D-PAK®*** | | | |
| **D2IH3-1** | ½ | | |
| ***Four Outlets*** | | | |
| **2IH4-1•** | ½ | Top | 2 |
| **2IH4-2•** | ¾ | Bottom | 1 |
| | | Back | 1 |
| | | **TOTAL** | **4** |
| ***Five Outlets*** | | | |
| **2IH5-1•** | ½ | Top | 2 |
| **2IH5-2•** | ¾ | Bottom | 2 |
| | | Back | 1 |
| | | **TOTAL** | **5** |
| ***Five Outlets (2-Side)*** | | | |
| **2IH5S2-1•** | ½ | Top | 1 |
| **2IH5S2-2•** | ¾ | Bottom | 1 |
| | | Side | 1 |
| | | Side | 1 |
| | | Back | 1 |
| | | **TOTAL** | **5** |
| ***Seven Outlets*** | | | |
| **2IH7-1•** | ½ | Top | 3 |
| **2IH7-2•** | ¾ | Bottom | 3 |
| | | Back | 1 |
| | | **TOTAL** | **7** |
| ***Seven Outlets (2-Side)*** | | | |
| **2IH7S2-1•** | ½ | Top | 2 |
| **2IH7S2-2•** | ¾ | Bottom | 2 |
| | | Side | 1 |
| | | Side | 1 |
| | | Back | 1 |
| | | **TOTAL** | **7** |

***Note:*** *Raintight when used with appropriate Red•Dot® covers. Boxes supplied with 2 closure plugs and ground screw.*

*• With mounting lugs*

# Weatherproof Metallic Boxes

## Deep Boxes — Single- and Multi-Gang

| CAT. NO. | HUB SIZE (IN.) | OUTLETS | |
|---|---|---|---|
| ***Three Outlets*** | | | |
| IHD3-1• | ½ | Top | 1 |
| IHD3-2• | ¾ | Bottom | 1 |
| IHD3-3• | 1 | Back | 1 |
| | | **TOTAL** | **3** |
| ***Four Outlets*** | | | |
| IHD4-1• | ½ | Top | 2 |
| IHD4-2• | ¾ | Bottom | 1 |
| | | Back | 1 |
| | | **TOTAL** | **4** |
| ***Two-Gang Five Outlets*** | | | |
| 2IHD5-1• | ½ | | |
| 2IHD5-2• | ¾ | Top | 2 |
| 2IHD5-3• | 1 | Bottom | 2 |
| | | Back | 1 |
| | | **TOTAL** | **5** |
| ***Three-Gang Seven Outlets*** | | | |
| 3IHD7-2• | ¾ | Top | 3 |
| 3IHD7-3• | 1 | Bottom | 3 |
| | | Back | 1 |
| | | **TOTAL** | **7** |

## Close-Up Plugs — Zinc

| CAT. NO. | COLOR | HUB SIZE (IN.) |
|---|---|---|
| PLG-1-RD | Silver | ½ |
| PLG-2-RD | Silver | ¾ |
| PLG-3-RD | Silver | 1 |

## D-PAK®

| CAT. NO. | COLOR | HUB SIZE (IN.) |
|---|---|---|
| DPLG-1 | Silver | ½ |
| DPLG-1-BR | Bronze | ½ |
| DPLG-1-WH | White | ½ |
| DPLG-2 | Silver | ¾ |



## Extensions — Single-Gang

| CAT. NO. | HUB SIZE (IN.) | OUTLETS | | DESCRIPTION |
|---|---|---|---|---|
| ***No Outlets — 1" Deep*** | | | | |
| IHE | N/A | 0 | | Extension Ring for One-Gang Box with Gasket and Screws |
| ***Four Outlets — 1⅛" Deep*** | | | | |
| IHE4-1 | 1/2 | Top | 2 | 4-Hole Extension Ring for One-Gang Box with 4 Plugs, Gasket and Screws |
| | | Bottom | 2 | |
| | | **TOTAL** | **4** | |
| ***Two Outlets, Flanged — 1⅛" Deep*** | ***Add-On*** | | | |
| IHEF2-1 | ½ | Top | 1 | 2-Hole Flanged Box Extension Adapter with 1 Plug Gasket and Screws |
| IHEF2-2 | ¾ | Bottom | 1 | |
| | | **TOTAL** | **2** | |
| ***Six Outlets, Flanged — 1⅛" Deep*** | ***Add-On*** | | | |
| IHEF6S2-1 | ½ | Top | 2 | 6-Hole Flanged Box Extension Adapter with 4 Plugs, Gasket and Screws |
| IHEF6S2-2 | ¾ | Bottom | 2 | |
| | | Side | 1 | |
| | | Side | 1 | |
| | | **TOTAL** | **6** | |

## Extensions — Two-Gang

| CAT. NO. | HUB SIZE (IN.) | OUTLETS | DESCRIPTION |
|---|---|---|---|
| ***Deep*** | | | |
| 2IHE | N/A | 0 | Extension Ring for Two-Gang Boxes with Gasket and Screws |

## Extensions — Round

| CAT. NO. | HUB SIZE (IN.) | OUTLETS | DESCRIPTION |
|---|---|---|---|
| ***Four Outlets — 1⅝" Deep*** | | | |
| SE-47 | ½ | 4 | Round Extension with Gasket and Screws |
| SE-48 | ¾ | 4 | |

## Mounting Lugs

| CAT. NO. | DESCRIPTION |
|---|---|
| LM | 2 Mounting Lugs with Self-Tapping Screws, for LM Boxes Only |



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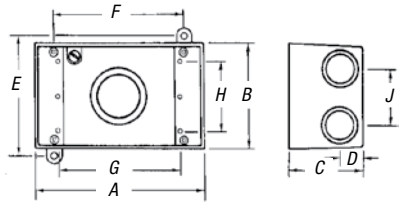
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# Weatherproof Metallic Boxes



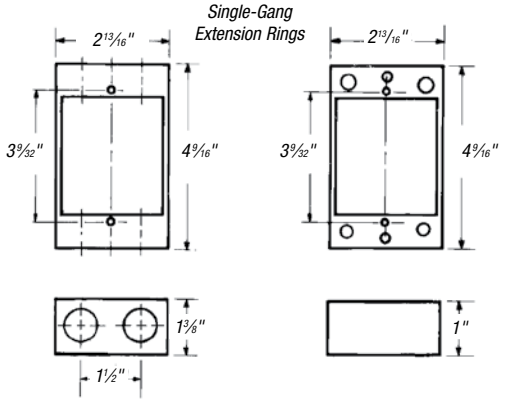
## Single-Gang Boxes

Single-Gang Boxes



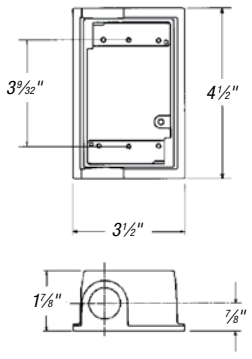

IH

Single-Gang Extension Rings



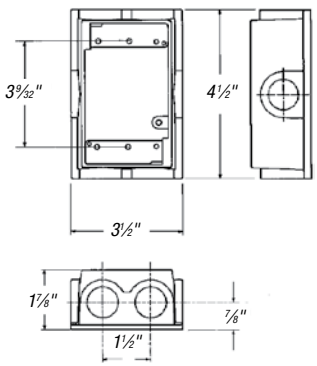

IHE4-1 IHE

Two-Hole Flanged Box Extension Adapter




IHEF2 (Add-On)

Six-Hole Flanged Box Extension Adapter

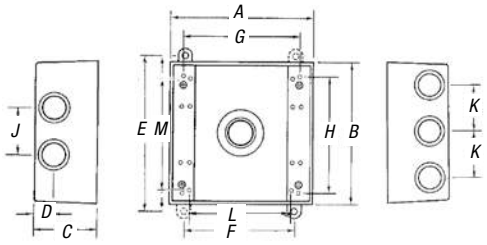



IHEF6S2 (Add-On)

| CAT. NO. | HUB SIZE | DIMENSIONS (IN.) A | B | C | D | E | F | G | H | J | CI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| IH-1 | ½ | 4 9/16 | 2 13/16 | 2 | 5/8 | — | — | 3¼ | 1⅞ | 1½ | 17.3 |
| IH-2 | ¾ | 4 9/16 | 2 13/16 | 2 | 5/8 | — | — | 3¼ | 1⅞ | 1½ | 17.0 |
| IH-LM-1 | ½ | 4 9/16 | 2 13/16 | 2 | 5/8 | 3 13/16 | 3½ | 3¼ | 1⅞ | 1½ | 17.3 |
| IH-LM-2 | ¾ | 4 9/16 | 2 13/16 | 2 | 5/8 | 3 13/16 | 3½ | 3¼ | 1⅞ | 1½ | 17.0 |
| IH-S-1 | ½ | 4 9/16 | 2 13/16 | 2 | 5/8 | 3 13/16 | 3½ | 3¼ | 1⅞ | 1½ | 17.0 |
| IH-S-2 | ¾ | 4 9/16 | 2 13/16 | 2 | 5/8 | 3 13/16 | 3½ | 3¼ | 1⅞ | 1½ | 17.0 |
| IHD-1 | ½ | 4 9/16 | 2 13/16 | 2 5/8 | 5/8 | 3 13/16 | 3½ | 3¼ | 1⅞ | 1½ | 24.8 |
| IHD-2 | ¾ | 4 9/16 | 2 13/16 | 2 5/8 | 5/8 | 3 13/16 | 3½ | 3¼ | 1⅞ | 1½ | 24.8 |
| IHD-3 | 1 | 4 9/16 | 2 13/16 | 2 5/8 | ¾ | 3 13/16 | 3½ | 3¼ | 1⅞ | 1½ | 23.5 |

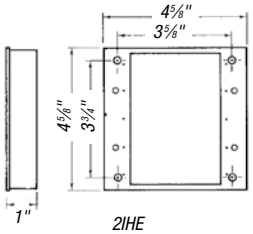
## Two- and Three-Gang Boxes

Two- and Three-Gang Boxes




2IH & 3IH

Two-Gang Extension Ring




2IHE

| CAT. NO. | DIMENSIONS (IN.) A | B | C | D | E | F | G | H | J | K | L | M | CI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2IH3 | 4 9/16 | 4 5/8 | 2 1/16 | 5/8 | 5 | 3½ | 3 17/32 | 3¾ | — | — | 3¼ | 3 9/16 | 31.8 |
| 2IH4 | 4 9/16 | 4 5/8 | 2 1/16 | 5/8 | 5 | 3½ | 3 17/32 | 3¾ | 1½ | — | 3¼ | 3 9/16 | 31.8 |
| 2IH5 | 4 9/16 | 4 5/8 | 2 1/16 | 5/8 | 5 | 3½ | 3 17/32 | 3¾ | 1½ | — | 3¼ | 3 9/16 | 31.8 |
| 2IH5S2 | 4 9/16 | 4 5/8 | 2 1/16 | 5/8 | 5 | 3½ | 3 17/32 | 3¾ | — | — | 3¼ | 3 9/16 | 31.8 |
| 2IH7 | 4 9/16 | 4 5/8 | 2 1/16 | 5/8 | 5 | 3½ | 3 17/32 | 3¾ | — | 1½ | 3¼ | 3 9/16 | 30.3 |
| 2IH7S2 | 4 9/16 | 4 5/8 | 2 1/16 | 5/8 | 5 | 3½ | 3 17/32 | 3¾ | 1½ | — | 3¼ | 3 9/16 | 32.0 |
| 2IHD5 | 4 9/16 | 4 5/8 | 2 17/32 | ¾ | 5 | 3½ | 3 17/32 | 3¾ | 13/16 | — | 3¼ | 3 9/16 | 40.3 |
| 3IHD7 | 4 9/16 | 6 7/16 | 2 17/32 | 1 3/16 | 6 13/16 | 3½ | 3¼ | 5 5/8 | — | 1 3/16 | 3¼ | 3 9/16 | 54.8 |

## Weatherproof Metallic Boxes

# Round Boxes, Extensions and Covers

**Applications:**

- Junction for branch conduits
- Spacious, accessible wiring chamber provides a convenient location to maintain or change a system, pull conductors and make splices

**Features/Benefits:**

- Copper-free* aluminum provides increased corrosion resistance
- Precision-cast and machined surfaces permit safer wire pulling
- Clean cover edges provide good gasket sealing
- Precision NPT threads enable trouble-free field installation for rigid, IMC or EMT conduit
- Deep-slotted stainless steel cover screws for faster installation
- Clear UL® and cubic content markings speed approval by inspectors

**Standard Materials:**

- S Boxes: Die-cast aluminum alloy A380
- SS-B Cover: Stamped aluminum
- Gaskets: Composition

**Standard Finish:**

- Powder-coated finish

**Compliances:**

- UL® Listed
- Federal Spec. W-C-586B

**Sample Specifications:**

- Outlet boxes and covers shall be die-cast copper-free* aluminum alloy A380 (“S”). Outlet boxes and covers shall be finished with powder-coated paint.

*Outlet boxes and covers shall be Red•Dot®.*

*Catalog No. _____*

** Less than .004% copper content.*

*** S Boxes — Die-cast aluminum alloy A380.*





## Boxes

| CAT. NO. | COLOR | HUB SIZE (IN.) | DESCRIPTION |
|---|---|---|---|
| ***Five Outlets, 4⅛" Diameter*** | | | |
| **S-47** | Silver | ½ | 5 Outlets, Cast |
| **S-47-CFB** | Silver | ½ | Ceiling Fan Box and Cover Rated for 50 lb. Fixture or 35 lb. Fan |
| **S-48** | Silver | ¾ | Mounting Lugs, 4 Closure Plugs |
| **S-48-CFB** | Silver | ¾ | Ceiling Fan Box and Cover Rated for 50 lb. Fixture or 35 lb. Fan |
| ***D-PAK®*** | | | |
| **DS-47** | Silver | ½ | 5 Outlets |
| **DS-47-BR** | Bronze | ½ | 5 Outlets |
| **DS-47-WH** | White | ½ | 5 Outlets |
| **DS-48** | Silver | ¾ | 5 Outlets |
| **DS-48-BR** | Bronze | ¾ | 5 Outlets |
| **DS-48-WH** | White | ¾ | 5 Outlets |
| **DS-47-B** | Silver | ½ | With Blank Cover |
| **DS-48-B** | Silver | ¾ | With Blank Cover |



## 4½" Round Extensions

| CAT. NO. | COLOR | HUB SIZE (IN.) | DESCRIPTION |
|---|---|---|---|
| ***Four Outlets, 4⅛" Diameter, 1⅝" Deep*** | | | |
| **SE-47** | Silver | ½ | 4 Outlets |
| **SE-48** | Silver | ¾ | 4 Closure Plugs, Gasket and Screws |

***Note**: Boxes are Raintight when used with appropriate Red•Dot® boxes.*

*All covers packed with gasket and screws.*



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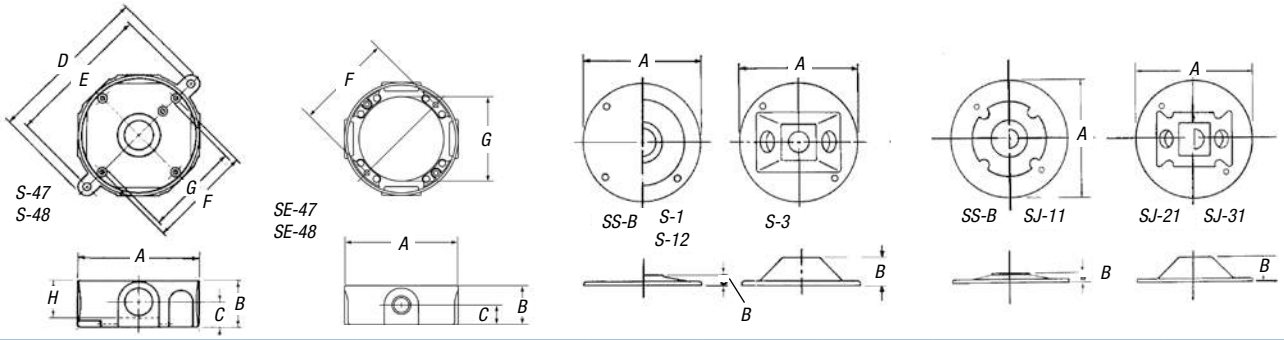
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# Weatherproof Metallic Boxes



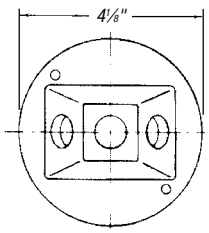
## Outlet Boxes, Extensions




| CAT. NO. | DIMENSIONS (IN.) HUB SIZE | A | B | C | D | E | F | G | H | CI |
|---|---|---|---|---|---|---|---|---|---|---|
| **S-47** | ½ | 4⅛ | 1⅝ | ¾ | 5⁹⁄₁₆ | 4¹⁵⁄₁₆ | 3½ | 3⅛ | 1¼ | 17.0 |
| **SE-47** | ½ | 4⅛ | 1⅝ | 1³⁄₁₆ | — | — | 3½ | 3³⁄₁₆ | — | 18.3 |
| **S-71** | ½ | 4⅛ | 1⅝ | ¾ | 5⁹⁄₁₆ | 4¹⁵⁄₁₆ | 3½ | 3⅛ | 1¼ | 16.3 |
| **S-48** | ¾ | 4⅛ | 1⅝ | ⅞ | 5⁹⁄₁₆ | 4¹⁵⁄₁₆ | 3½ | 3⅛ | 1¼ | 17.0 |
| **SE-48** | ¾ | 4⅛ | 1⅝ | 1³⁄₁₆ | — | — | 3½ | 3³⁄₁₆ | — | 18.3 |
| **SS-B** | — | 4⅛ | ³⁄₆₄ | — | — | — | — | — | — | — |
| **S-1** | ½ | 4⅛ | 1⅜ | — | — | — | — | — | — | — |
| **S-12** | ¾ | 4⅛ | ⅜ | — | — | — | — | — | — | — |
| **S-3** | ½ | 4⅛ | 1¹⁄₁₆ | — | — | — | — | — | — | — |
| **SS-B** | — | 4½ | ⅜ | — | — | — | — | — | — | — |
| **SJ-11** | ½ | 4½ | ⅜ | — | — | — | — | — | — | — |
| **SJ-21** | ½ | 4½ | 1 | — | — | — | — | — | — | — |
| **SJ-31** | ½ | 4½ | 1 | — | — | — | — | — | — | — |

## Round Lampholder Covers

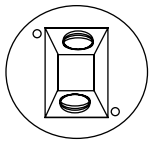
- Heavy-duty die-cast construction
- Powder-coat finish in silver gray, bronze or white
- Three-hole cover is supplied with a ½" closure plug
- Supplied with sealing gasket and cover screw




| CAT. NO. | NO. OF OUTLET HOLES | FINISH | STD. CTN. |
|---|---|---|---|
| **S-1-RD** | 1 | Silver Gray | 25 |
| **DSS-1-BR** | 1 | Bronze | 25 |
| **DSS-1-WH** | 1 | White | 25 |
| **Y2-PL** | 2 | Silver Gray | 25 |
| **S-3-RD** | 3 | Silver Gray | 25 |
| **DSS-3-BR** | 3 | Bronze | 25 |
| **DSS-3-WH** | 3 | White | 25 |

*UL Listed E-51763.*

*CSA Certified LR-18685.*



*Y2*

## Round Blank Covers



*SS-B* *CCRSB* *DCCRB*

| CAT. NO. | COLOR | DESCRIPTION |
|---|---|---|
| ***4⅛" Diameter*** | | |
| **SS-B** | Silver | Weatherproof Cover with Gasket and Screws |
| ***5" Diameter*** | | |
| **CCRSB** | White | Mounting Holes 2¾" on Center (not raintight) |
| **CCRB** | White | Mounting Holes 3½" on Center (not raintight) |
| ***D-PAK®*** | | |
| **DCCRB** | White | — |

***Note**: Boxes are raintight when used with appropriate Red•Dot® boxes.*

*All covers packed with gasket and screws.*

## Weatherproof Non-Metallic Fixtures and Boxes

# Red•Dot® Non-Metallic Weatherproof Fixtures

- Designed for indoor or outdoor use
- One-piece design with 20.25 cu. in. capacity
- Approved for dwelling
- Acceptable for barn applications
- Junction box approved
- Rated for 60° C field wiring with 150W bulb and tempered glass globe
- Approved for through branch wiring — accommodates eight #12 AWG through branch circuit conductors
- UL® and cUL Listed
- UL® Marine Listed






## Installation

- Includes gasket, four lug nuts and two mounting screws

**Installation Instructions**

1. Turn off electricity before starting.
2. Disassemble fixture from base.
3. Make wire terminations according to the NEC® or local electrical codes.
4. Fold fixture wire into fixture base.
5. Twist on socket assembly.
6. Fixture assembly is ready for lamp and globe installation.

**NOTE:**

- Plastic globes mounted in a **VERTICAL POSITION** *(globe pointing down)* can only use a maximum lamp size of 60 watts
- Glass globes mounted in a **VERTICAL POSITION** can only use a maximum lamp size of 100 watts
- **HORIZONTAL** mountings have a maximum lamp size of 60 watts
- It is NOT RECOMMENDED to mount plastic globes horizontally for incandescent applications
- Weatherproof Fixture Bases and Globes are SOLD SEPARATELY

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*



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# Weatherproof Non-Metallic Fixtures and Boxes

## Weatherproof Fixture

- Suitable for use in wet/damp locations
- Designed for indoor or outdoor use
- 20.25 cu. in. capacity
- Easy to install
- Non-metallic — won't rust or fade
- One-piece design
- Approved for through-branch wiring



### Base

| CAT. NO. | HUB SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E962E | ¾ | 6 | 4.5 |

## Weatherproof Lighting Globes



### Clear Glass

| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| E960GLB (Clear Glass) | 6 | 6.6 |



### Clear Polycarbonate

| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| E960PGL (Clear Plastic) | 6 | 6.6 |

## Weatherproof T Boxes

- Red•Dot® Weatherproof T Boxes are for use with non-metallic wiring systems only
- Can be used with Red•Dot® Lampholder

### Single-Gang T Box

- With three ½" threaded holes
- Mounting feet included



| CAT. NO. | COLOR | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| E381D-CAR | Gray | ½ | 10 | 2.3 |
| E381DW-CAR | White | ½ | 6 | 3.6 |

### Double-Gang T Box

- With three ½" and four ¾" threaded holes
- Mounting feet included



| CAT. NO. | COLOR | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| E382DE | Gray | ½ | 6 | 3.6 |
| E382DEW | White | ½ | 6 | 3.6 |

### Round T Box

- With five ½" threaded holes
- Mounting feet included



| CAT. NO. | COLOR | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| E365D-CAR | Gray | ½ | 10 | 1.2 |
| E365D-CAR | White | ½ | 10 | 1.2 |

# Lampholders, Garden Lights and Accessories

**Applications:**

- Security and general outdoor lighting fixture for residential and commercial applications
- Accent lighting fixture for highlighting outdoor signs and architectural details
- Compact outdoor lighting fixture which can be mounted easily in most places and can be aimed in any direction

**Features/Benefits:**

- Clean lines and precision manufacturing result in a fixture which will enhance any application
- High-quality replaceable porcelain socket with high-temperature leads enables easy field maintenance
- Positive-locking mounting arm keeps fixture in aimed position to reduce costly call-backs
- Ground screw boss in arm

**Standard Materials:**

- Fixture: Certified die-cast zinc alloy ZAMAK 3
- Gasket: Heat-resistant composition or high-temperature silicone
- Socket: Center contact, porcelain, medium base

**Standard Finish:**

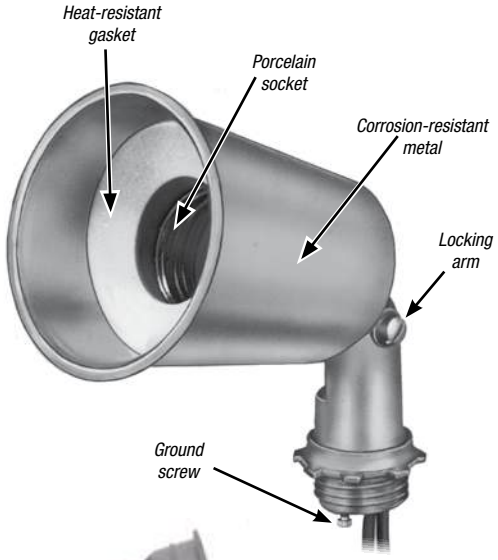
- Powder-coated finish
- Chrome-plated zinc

**Compliances:**

- UL® Listed
- Suitable for use in wet locations

**Sample Specifications:**

Lampholders shall be certified die-cast zinc alloy ZAMAK 3. Lampholder will have positive-locking mounting arm and replaceable socket. Fixture shall be Red•Dot® Dry-Tite®.
Catalog No. _____for use with _____ Watt incandescent lamp.






L-80-D



L-800



L-80



2L80D2



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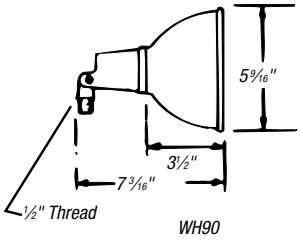
# Weatherproof Metallic Lampholders

Use with Medium-Base PAR Lamps to 150 Watts.

## Lampholders and Assemblies

### Hooded Lampholders


WH90



WH90

- Heavy-duty die-cast zinc lampholder
- Corrosion-resistant aluminum hood
- Factory provided with a 3-wire, 8" pre-stripped lead

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| WH90 | Silver Gray, 5½" Diameter Hood | 6 |

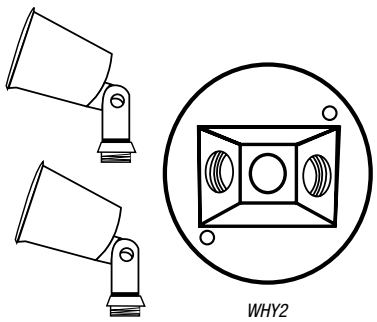
### Universal Lampholders

- Heavy-duty die-cast zinc construction
- Supplied with captive lamp sealing gasket
- Current-carrying components are copper or copper-alloy materials and sockets are porcelain
- Factory provided with a 2-wire, 8" prestripped lead
- Swivel arm has grounding boss
- Ground screw supplied

| CAT. NO. | DESCRIPTION | COLOR | STD. CTN. |
|---|---|---|---|
| WHG-1 | Weathershed Series with Heat-Resistant Sealing Gasket | Silver gray | 36 |
| WHUP-1 | Inside Gasket and Ground Screw | "Natural" color | 36 |

*UL Listed E-42680.*

### Lampholder Assemblies

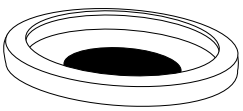

WHY2

- Heavy-duty die-cast zinc construction
- Powder-coat finish in silver gray
- Completely factory assembled and factory prewired
- Surface mount to any 3" or 4" round outdoor box or flush mount to existing box

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| WHY2 | Two Silver Lamps, Silver-Gray Cover | 5 |

*UL Listed E-42680.*

### Gasket



| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| G1 | Heat-Resistant Sealing Gasket | 100 |

### Adapters

- Heavy-duty die cast construction
- Natural cast finish



| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| AD11-2 | "Y" Adapter — Converts One Outlet to Two — ½" Threads | 10 |

*UL Listed E-51763.*

# Weatherproof Metallic Lampholders

## Round Lampholder Covers

### Standard Covers



S-1 S-12 S-3

| CAT. NO. | COLOR | HUB SIZE (IN.) | DESCRIPTION |
|---|---|---|---|
| ***Gasket and Screws, 4⅛" Diameter*** | | | |
| **S-1-RD** | Silver | ½ | One Tapped Hole |
| **S-12** | Silver | ¾ | One Tapped Hole |
| **S-3-RD** | Silver | ½ | Three Tapped Holes |
| ***D-PAK®*** | | | |
| **DSS-1** | Silver | ½ | One Tapped Hole |
| **DSS-1-BR** | Bronze | ½ | One Tapped Hole |
| **DSS-1-WH** | White | ½ | One Tapped Hole |
| **DSS-3** | Silver | ½ | Three Tapped Holes |
| **DSS-3-BR** | Bronze | ½ | Three Tapped Holes |
| **DSS-3-WH** | White | ½ | Three Tapped Holes |
| **S621E** | — | — | Universal Gasket |

### Jumbo Covers



SJ-11 SJ-21 SJ-31

| CAT. NO. | COLOR | HUB SIZE (IN.) | DESCRIPTION |
|---|---|---|---|
| ***Gasket and Screws, 4½" Diameter*** | | | |
| **SJ-11** | Silver | ½ | One Tapped Hole |
| **SJ-21** | Silver | ½ | Two Tapped Holes |
| **SJ-31** | Silver | ½ | Three Tapped Holes |

***Note**: Boxes are raintight when used with appropriate Red•Dot® boxes. All covers packed with gasket and screws.*

## Single-Gang Lampholder Covers



LC-11 LC-21 LC-31

| CAT. NO. | CAT. NO. | COLOR | SIZE (IN.) | DESCRIPTION |
|---|---|---|---|---|
| **STANDARD (2¹³⁄₁₆" X 4½")** | **JUMBO (3⅛" X 5⅛")** | | | |
| **LC-11** | **LF11** | — | ½ | One-Hole Device Mount |
| **LC-21** | **—** | — | ½ | Two-Hole Device Mount |
| **LC-31** | **LF31** | — | ½ | Three-Hole Device Mount |
| ***D-PAK®*** | | | | |
| **DLC-31** | **—** | Silver | ½ | Three-Hole Device Mount |
| **DLC-31-BR** | **—** | Bronze | ½ | Three-Hole Device Mount |
| **DLC-31-WH** | **—** | White | ½ | Three-Hole Device Mount |



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# Weatherproof Metallic Lampholders



## Lampholders, Die-Cast Zinc Zamak 3



L-80



L-80-D



L-800



LG-80

| CAT. NO. | COLOR | LAMP MAX. | DESCRIPTION |
|---|---|---|---|
| ***Standard*** | | | |
| **L-80** | Silver | 150W• PAR 38 or R40 | Inside Gasket and Ground Screw |
| **WHUP-1** | Natural | 150W• PAR 38 or R40 | Inside Gasket and Ground Screw |
| ***D-PAK®*** | | | |
| **DL-80** | Silver | — | — |
| **DL-80-BR** | Bronze | — | — |
| **DL-80-WH** | White | — | — |
| ***Gasketed*** | | | |
| **L-80-D** | Silver | 150W• PAR 38 or R40 | Heavy-Duty Slip-On Gasket and Ground Screw |
| ***Deep-Shielded*** | | | |
| **L-800** | — | 150W • PAR 38 or R40 | Inside Gasket and Ground Screw |
| ***Wireguard*** | | | |
| **LG-80** | — | — | Mounts to L-80 Series Lampholder |

## Decorative Floodlight



| CAT. NO. | COLOR | LAMP MAX. | DESCRIPTION |
|---|---|---|---|
| **2L80D2** | White | 150W• PAR 38 | Two Lampholders Round Cover, or R40 Inside Ground Screws |
| ***D-PAK®*** | | | |
| **D2L80S3** | Silver | — | — |

# Spike Lights

## Portable Mount

**For use with 150-Watt Lamp**

- Lampholders are heavy-duty die-cast construction
- Lampholders have powder-coat green finish
- Current-carrying components are copper or copper alloy and sockets are porcelain
- Factory wired

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **B660GR** | Spike Light with 6' Cord | 16 |

*UL Listed E-42680.*

## Portable Spotlights

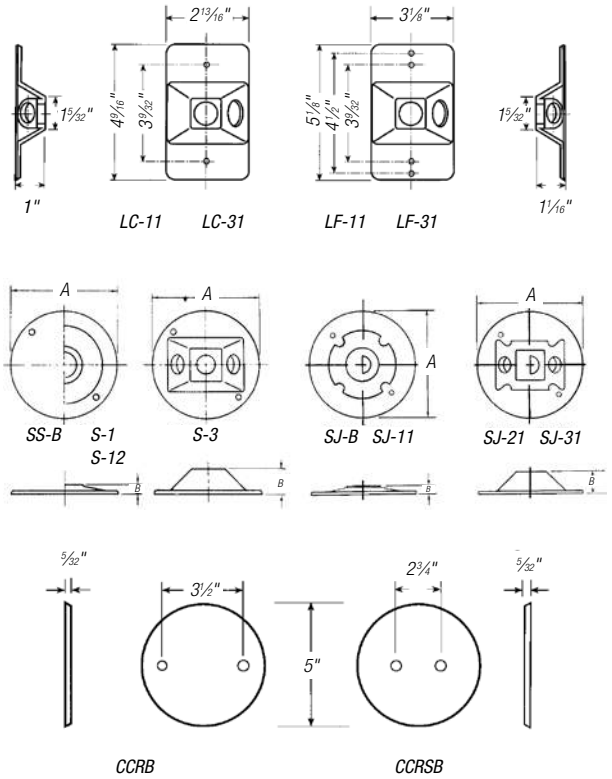


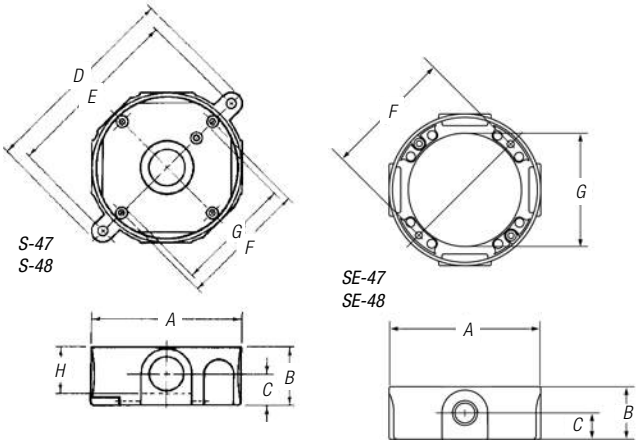


| CAT. NO. | COLOR | LAMP MAX. | DESCRIPTION |
|---|---|---|---|
| **K702** | Silver | 150W• PAR 38 or R40 | Standard Lampholder, Ground Spike, Wall Bracket, Gasket and Screws |
| **K780** | Silver | 150W• PAR 38 or R40 | Deep-Shielded Lampholder, Ground Spike, Wall Bracket, Gasket and Screws |
| **K780BR** | Bronze | 150W• PAR 38 or R40 | Standard Lampholder, Ground Spike, Wall Bracket, Gasket and Screws |

# Weatherproof Metallic Lampholders

## Dimensions in Inches

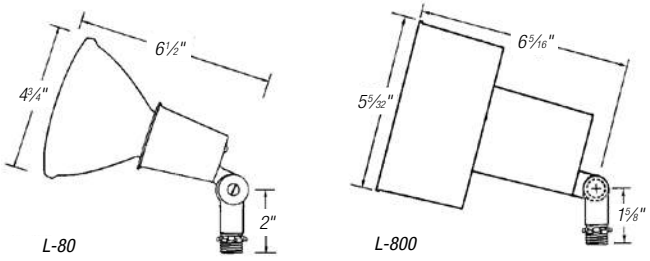


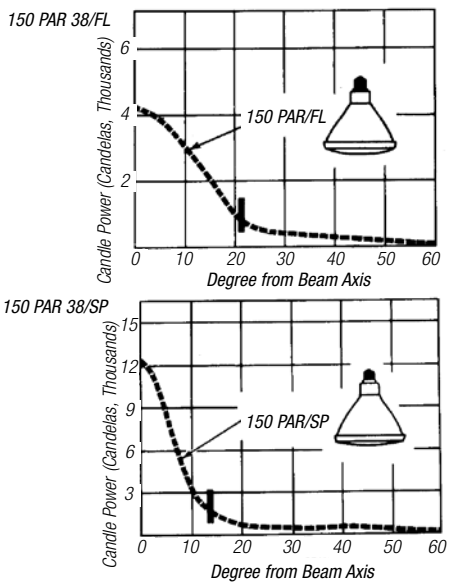




| CAT. NO. | HUB SIZE | DIMENSIONS (IN.) A | B | C | D | E | F | G | H | CI |
|---|---|---|---|---|---|---|---|---|---|---|
| **S-47** | ½ | 4⅛ | 1⅝ | ¾ | 5 9/16 | 4 15/16 | 3½ | 3⅜ | 1¼ | 16.0 |
| **SE-47** | ½ | 4⅛ | 1⅝ | 1 | — | — | 3½ | 3 1/16 | — | 18.3 |
| **S-48** | ¾ | 4⅛ | 1⅝ | ⅞ | 5 9/16 | 4 15/16 | 3½ | 3⅜ | 1¼ | 16.0 |
| **SE-48** | ¾ | 4⅛ | 1⅝ | 1 3/16 | — | — | 3½ | 3 1/16 | — | 18.3 |
| **SS-B** | — | 4⅛ | 3/64 | — | — | — | — | — | — | — |
| **S-1** | ½ | 4⅛ | ⅜ | — | — | — | — | — | — | — |
| **S-12** | ¾ | 4⅛ | ⅜ | — | — | — | — | — | — | — |
| **S-3** | ½ | 4⅛ | 1 | — | — | — | — | — | — | — |
| **SJ-B** | — | 4½ | ⅜ | — | — | — | — | — | — | — |
| **SJ-11** | ½ | 4½ | ⅜ | — | — | — | — | — | — | — |
| **SJ-21** | ½ | 4½ | 1 | — | — | — | — | — | — | — |
| **SJ-31** | ½ | 4½ | 1 | — | — | — | — | — | — | — |

## Photometrics

Photometrics are strictly a function of the lamp used.



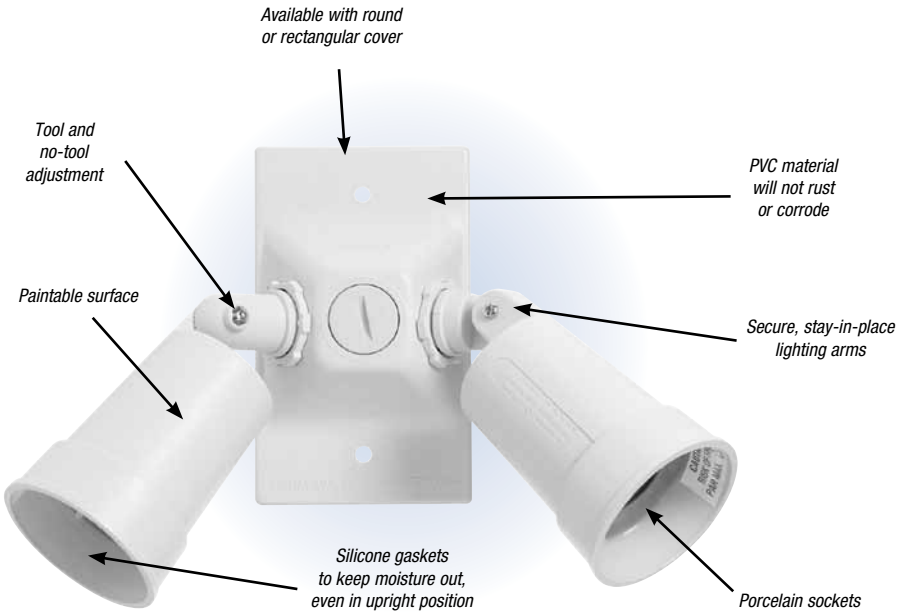



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# Red•Dot® Non-Metallic Weatherproof Lampholders

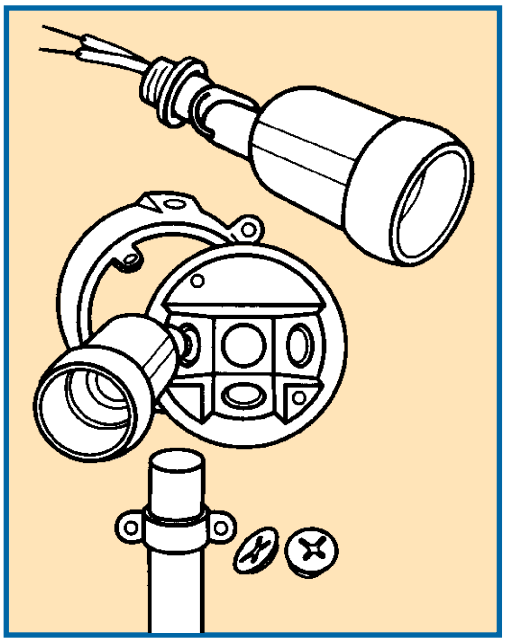


- UV resistant — suitable for outdoor use
- Accepts 150-watt bulb max (incandescent only)
- Non-metallic/ noncorrosive
- UL® and cUL Listed
- Approved for upward use in wet locations




## Installation

- Includes gasket, four lug nuts and two mounting screws



**Installation Instructions:**

1. Turn off electricity before starting.
2. Bring power leads into the outlet box and connect using proper wire nuts or insulation materials.
3. Use drill or nail to knock out holes on lampholder cover that align with outlet box. When completed, be sure visual perimeter of weatherproof gasket is even to ensure proper seal.
4. Floodlight lampholders can be positioned using two different adjustments. Loosen locknut to turn lampholder assembly to desired position. Tighten locknut. Then depress pushbutton to adjust lampholder to final position.

# Weatherproof Non-Metallic Lampholders

## Lampholders

- For use in wet/damp locations
- Ideal for residential or commercial applications — security/landscape
- Mounts to a device box
- Non-metallic — won't rust or fade
- Paintable
- Easy to install
- Stay-in-place lighting arms

c UL us
E70380
E183934
Except where noted by ▶



### No-Tool Lampholder with Round Cover

| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| P8060W-CAR | White | 6 | 5.8 |





### Lampholder with Round Cover

| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| P8010W-CAR | White | 6 | 3.9 |

### Lampholder with Rectangular Cover

| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| P8005W-CAR | White | 6 | 3.8 |

## Covers





### Rectangular

| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| P7901W-CAR | White | 12 | .9 |

### Round

| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| P7801W-CAR | White | 16 | 1.6 |

## Accessories





### No-Tool Lampholder with Gasket

| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| P8001W-CAR | White | 24 | 5.5 |

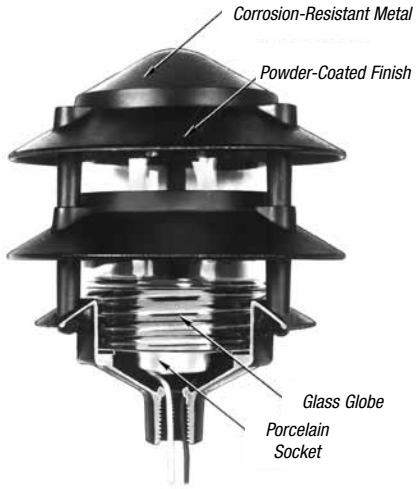
### Closure Plugs

| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| ▶ P7701W-CAR | White | 30 | 1.3 |



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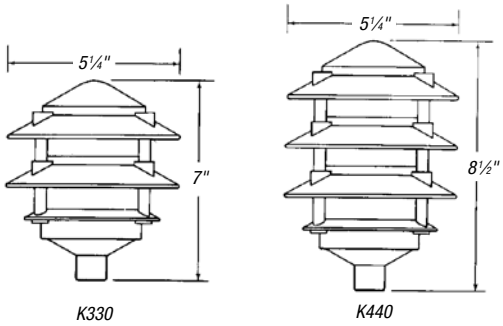
# SiteLight® Landscape Lights




**Sample Specifications:**

- Fixture shall be certified die-cast zinc alloy ZAMAK 3; socket shall be porcelain, center contact and replaceable; socket shall have extended leads for easy wiring; fixture shall be Red•Dot® Dry-Tite®

Catalog No. _____




K330 K440

**Applications:**

- Lighting for walkways, paths or driveways
- Accent lighting for garden and terrace areas
- Ground-level security lighting

**Features/Benefits:**

- Certified zinc alloy provides increased corrosion resistance
- High-quality replaceable porcelain socket with high-temperature leads enables easy field maintenance

**Standard Materials:**

- Fixture: Die-cast zinc alloy ZAMAK 3
- Globe: Lime crystal glass
- Socket: Center contact, porcelain, medium base

**Standard Finish:**

- Green powder-coated finish
- Bronze powder-coated finish

**Compliances:**

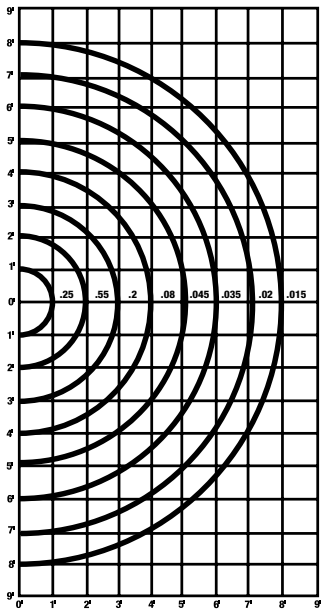
- UL® Listed
- Suitable for use in wet locations

**Photometrics:**

Based on lamp center 24" above ground

Based on 100-Watt A-19 inside-frosted 1750-lumen lamp. For other wattage see table **below**.

| WATTAGE | MULTIPLIER |
|---|---|
| 100 | 1.0 |
| 75 | .68 |
| 60 | .44 |
| 50 | .27 |
| 40 | .26 |
| 25 | .13 |




*Iso Foot Candles*

## Three Tier



K330

| CAT. NO. | COLOR | LAMP MAX. | DESCRIPTION |
|---|---|---|---|
| **K330** | Green | 75W• | 12" Extended Leads, Gasket and Ground Screw Globe |
| **K330BR** | Bronze | | |
| **VGL-075** | | | |

## Four Tier



K440

| CAT. NO. | COLOR | LAMP MAX. | DESCRIPTION |
|---|---|---|---|
| **K440** | Green | 100W• | 12" Extended Leads, Gasket and Ground Screw Globe |
| **K440BR** | Bronze | | |
| **VGL-01** | | | |

***Note**: Lamp not included*

## Outdoor Lighting

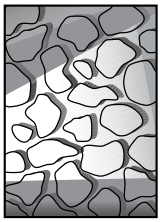
# Step Up to SiteLight® Line Voltage Outdoor Lighting.



### Planning your Outdoor Lighting

On graph paper, outline your home and grounds. Indicate key features you wish to highlight such as stairways, statuary, shrubbery or flowering plants. SiteLight **Spot Lights** and **Swivel Lights** provide focused illumination to showcase these areas.

The diagrams below show how you can achieve three special lighting effects with SiteLight® **Spot Lights** and **Swivel Lights.**



*Grazing from side or bottom to show texture*



*Uplighting from below makes details stand out*



*Silhouetting from behind provides drama*

For decks, Post Sconce Lights mounted on deck posts provide glare-free perimeter lighting and mid-stair lighting. Post Top Lights are ideal for lighting stairs and rails.

Use SiteLight® Path Lights and Swivel Lights for pathways, driveways and general garden lighting. The chart below will help you determine fixture spacing.

| BRIGHT & EVEN | MEDIUM DAPPLED | SOFT MOOD |
|---|---|---|
| 8'–10' | 12'–18' | Over 20' |

*SiteLights® are permanent, all-metal fixtures guaranteed for a lifetime.*

## SiteLight® Line Voltage Outdoor Lighting

For outdoor lighting, nothing compares to the full power (120V) and beauty of SiteLight®. SiteLight® uses regular household voltage and standard bulbs that are readily available. There are no expensive transformers to purchase or replace. With SiteLight®, you can add fixtures when and where you want them and still enjoy lighting that is up to five times brighter than low-voltage.

Use SiteLight® to highlight gardens, statuary, shrubbery and to effectively light decks, stairs, pathways, pools and driveways. SiteLight® meets every outdoor lighting need… from soft, indirect deck lighting, to brilliant, focused spot lighting. Use SiteLight® to beautify your property while enhancing safety and security.

Step up to SiteLight® line voltage outdoor lighting and add permanent value to your home.

### Compare SiteLight® to Low-Voltage Sets

- SiteLight® is up to five times brighter than low-voltage — more light with fewer fixtures than with low-voltage sets
- SiteLight® gives you flexibility in spacing, the number of fixtures and the length-of-run. Light where you need it — low-voltage sets have a fixed limit on length-of-run and the number of fixtures
- SiteLight® uses regular household current — no expensive low-voltage transformer to purchase or replace
- SiteLight® uses readily available, standard bulbs — low-voltage bulbs are often found only where sets are sold
- SiteLight® lets you add on fixtures by tapping into run — low-voltage sets will generate even less light if transformers are at capacity

### SiteLight® Meets Every Outdoor Lighting Need

- From soft, indirect deck lighting to brilliant, focused spot lighting, use SiteLight® to beautify any property while enhancing safety and security
- Lighting for walkways, pathways and driveways
- Stairway, perimeter and task lighting for decks
- Accent and ambient lighting for pool/patio and garden areas
- Highlighting to emphasize landscape details or specific objects
- Ground-level safety/security lighting to illuminate dark areas



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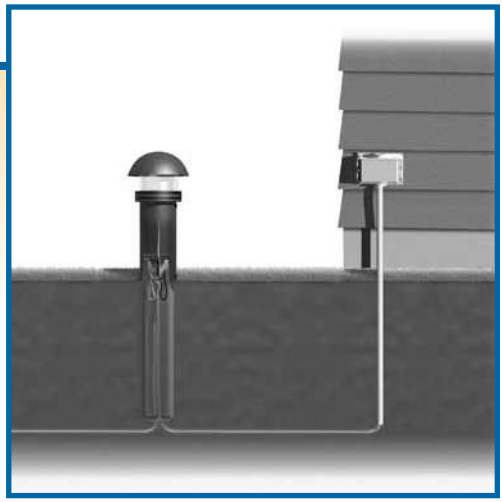
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## Outdoor Lighting

# We've Made Installation Easy.

Everything you need is included in the SiteLight® Kit, except a bulb, supply cable and tools (screwdriver, wire strippers, etc.). Only three connections are required to wire each fixture to the supply cable. With the SiteLight® PVC in-ground mounting tube, there is no need to pour concrete to secure the fixtures. Just position the tube and pack dirt around it. Attach your SiteLight® to the mounting tube and your installation is complete.

SiteLight® is designed for a lifetime of trouble-free use. SiteLight® is high-quality, permanent lighting built to add value and beauty to your home.



**Applications:**

- Lighting for walkways, pathways and driveways
- Stairway, perimeter and task lighting for decks
- Accent and ambient lighting for pool/patio and garden areas
- Highlighting to emphasize landscape details or specific objects
- Ground-level safety/security lighting to illuminate dark areas

**Features/Benefits:**

- Copper-free* aluminum construction provides increased corrosion resistance
- Sturdy die-cast aluminum construction provides durability
- Architectural bronze color blends into landscape and deck areas
- High-quality, replaceable porcelain socket with brass screw shell (except K851BR, K852BR)
- Aluminum mounting tube cap houses and protects wire connection (ground-installed fixtures)
- PVC ground tube provides an innovative installation method saving costly labor and traditional installation materials (ground-installed fixtures)
- Wire connectors and ground wire enable safe, easy power connections
- Tempered glass lens and silicon gaskets keep socket dry (K831BR, CS841BR, K861BR)
- Positive locking arm can be adjusted to the desired position (K831BR, CS841BR, K861BR)
- Fixtures use regular household voltage (120V)

**Standard Materials:**

- Fixture: Die-cast aluminum alloy A360 with less than .004% copper content (copper free*)
- Lens: Tempered glass (K831BR, CS841BR, K861BR)
- Lens: Polycarbonate (K811BR, K812BR, K821BR, K822BR, K851BR)
- Socket: Porcelain, center contact, brass screw shell, medium base (K811BR, K812BR, K821BR, K822BR, K831BR, CS841BR, K861BR), molded plastic socket with candelabra base (K851BR and K852BR)
- Mounting Tube: Gray PVC, schedule 40 (ground-installed fixtures)

**Standard Finish:**

- Bronze powder-coated finish

**Compliances:**

- UL® Listed
- Suitable for use in wet locations
- Ground mounting (suitable for use 4' or less above grade level) except K852BR and K861BR

**Sample Specifications:**

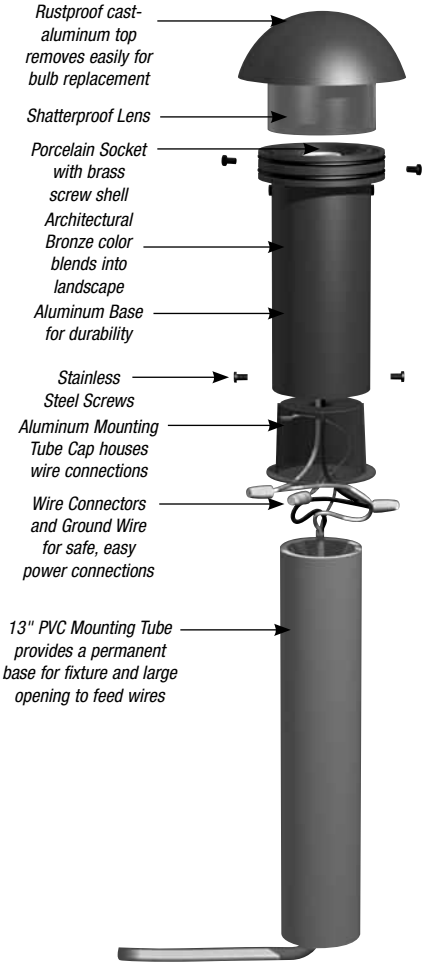
- Fixture shall be die-cast copper-free* aluminum alloy A360, with bronze powder-coated finish. Sockets shall be porcelain, center contact, brass screw shell-medium base for K811BR, K812BR, K821BR, K822BR, K831BR, K841BR and K861BR fixtures. Sockets shall be molded plastic with candelabra screw base for K851BR and K852BR fixtures. All sockets shall have extended leads for easy wiring.

**Easy to Install:**

- Only three wire connections per fixture are required
- No need to pour concrete
- All connections are made above ground

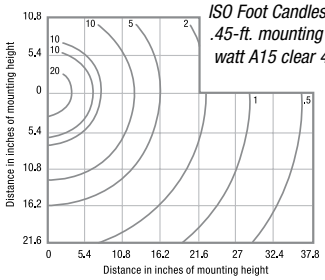
** Less than .004% copper content*

### Quality Construction





K812BR,
7.5" Height Option




*ISO Foot Candles Values based on .45-ft. mounting height and a 40-watt A15 clear 400-lumen lamp.*

## 7.5"/10" Path Light

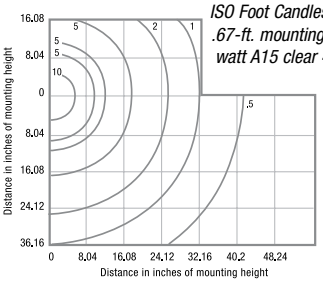
***See pages A-250–A-251 for specifications***

| CAT. NO. | DESCRIPTION | LAMP REQUIRED | SPACING |
|---|---|---|---|
| **K812BR** | 7.5"/10" Path Light with 13" x 2" Schedule 40 PVC Mounting Tube | A15 40W (max.)/ 120V medium base | 8'–10' apart: bright and even, 12'–18' apart: medium dappled, 20' or more: soft mood |

*Fixture can be configured for either height – extension sleeve included.*



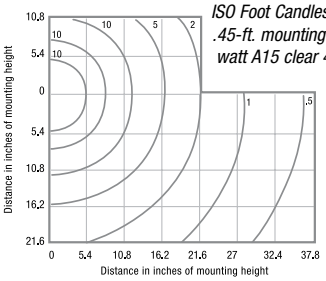
K812BR,
10" Height Option




*ISO Foot Candles Values based on .67-ft. mounting height and a 40-watt A15 clear 400-lumen lamp.*



K822BR,
7.5" Height Option




*ISO Foot Candles Values based on .45-ft. mounting height and a 40-watt A15 clear 400-lumen lamp.*

## 7.5"/10" Path Light

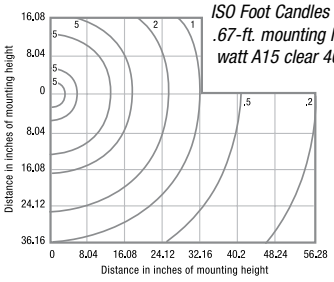
***See pages A-252–A-253 for specifications***

| CAT. NO. | DESCRIPTION | LAMP REQUIRED | SPACING |
|---|---|---|---|
| **K822BR** | 7.5"/10" Path Light with 13" x 2" Schedule 40 PVC Mounting Tube | A15 40W (max.)/ 120V medium base | 8'–10' apart: bright and even, 12'–18' apart: medium dappled, 20' or more: soft mood |

*Fixture can be configured for either height – extension sleeve included.*



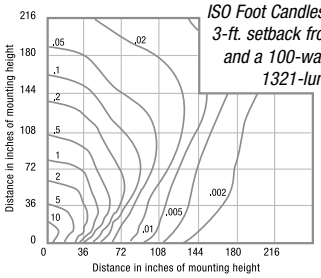
K822BR,
10" Height Option




*ISO Foot Candles Values based on .67-ft. mounting height and a 40-watt A15 clear 400-lumen lamp.*



CS841BR




*ISO Foot Candles Values based on 3-ft. setback from a vertical wall and a 100-watt incandescent 1321-lumen lamp.*

## Ground Spot Light

***See page A-254 for specifications***

| CAT. NO. | DESCRIPTION | LAMP REQUIRED | SPACING |
|---|---|---|---|
| **CS841BR** | Ground Spot Light with 13" x 2" Schedule 40 PVC Mounting Tube | R20 100W (max.)/ 120V medium base | One to two for each object to be highlighted or as required for special lighting effects |



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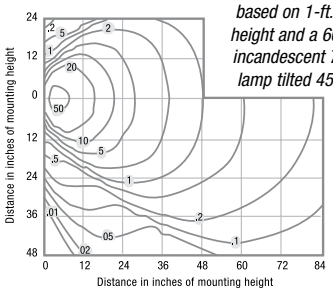
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K831BR




*ISO Foot Candles Values based on 1-ft. mounting height and a 60-watt A15 incandescent 740-lumen lamp tilted 45° degrees.*

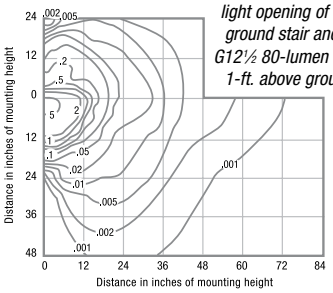
## 17.5" Swivel Light

*See page A-255 for specifications*

| CAT. NO. | DESCRIPTION | LAMP REQUIRED | SPACING |
|---|---|---|---|
| K831BR | 17.5" Swivel Light with 13" x 2" Schedule 40 PVC Mounting Tube | General lighting: A15 60W (max.)/ 120V medium base spot lighting: R16 60W (max.)/ 120V medium base | General lighting: 8'–10' apart: bright and even, 12'–18'apart: medium dappled, 20' or more: soft mood, spot lighting: one to two for each object to be highlighted |



K851BR




*ISO Foot Candles Values based on 1-ft. mounting height from light opening of luminaire to ground stair and a 10-watt G12½ 80-lumen lamp on lens 1-ft. above ground or stair.*

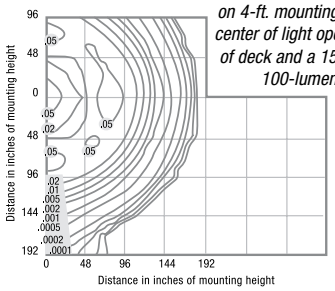
## Post Sconce Light

*See page A-256 for specifications*

| CAT. NO. | DESCRIPTION | LAMP REQUIRED | SPACING |
|---|---|---|---|
| K851BR | Post Sconce Light with Metal Back Plate and Mounting Hardware | G12½ 10W (max.)/ 120V candelabra base | On each post or every other post depending on desired brightness, mounts to standard 4 x 4 post |



K852BR




*ISO Foot Candles Values based on 4-ft. mounting height from center of light opening to base of deck and a 15-watt G12½ 100-lumen lamp.*

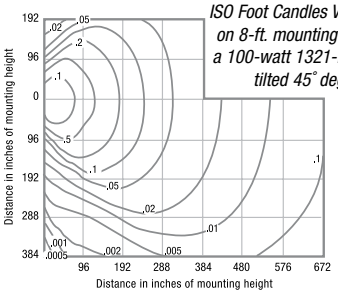
## Post Top Light

*See page A-257 for specifications*

| CAT. NO. | DESCRIPTION | LAMP REQUIRED | SPACING |
|---|---|---|---|
| K852BR | Post Top Light with Metal Back Plate and Mounting Hardware | G12½ 10W (max.)/ 120V candelabra base | On each post or every other post depending on desired brightness, mounts to standard 4 x 4 post |



K861BR




*ISO Foot Candles Values based on 8-ft. mounting height and a 100-watt 1321-lumen lamp tilted 45° degrees.*

## Wall Spot

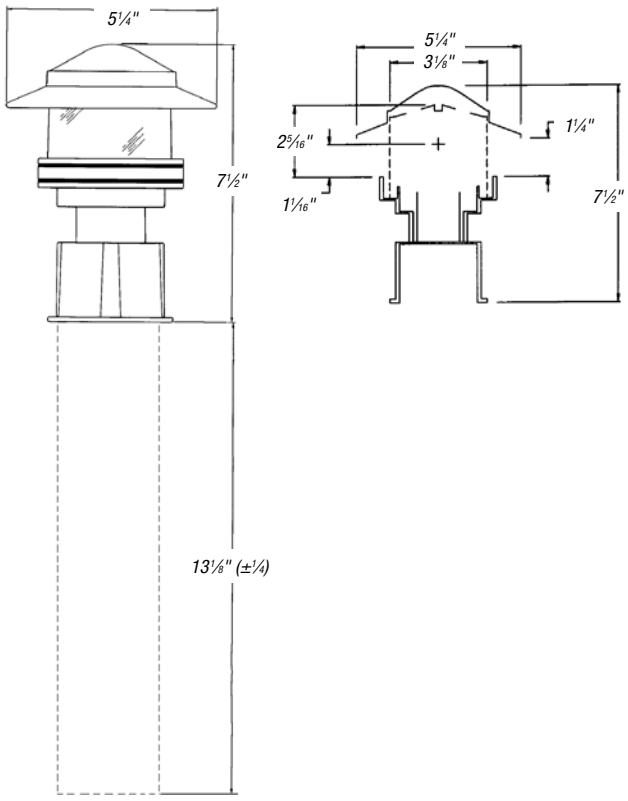
*See page A-258 for specifications*

| CAT. NO. | DESCRIPTION | LAMP REQUIRED | SPACING |
|---|---|---|---|
| K861BR | Wall Spot with Cover (box not included) | R20 100W (max.)/ 120V medium base | One to two on most average size decks or exterior walls |

# K812BR Specifications

## Dimensions

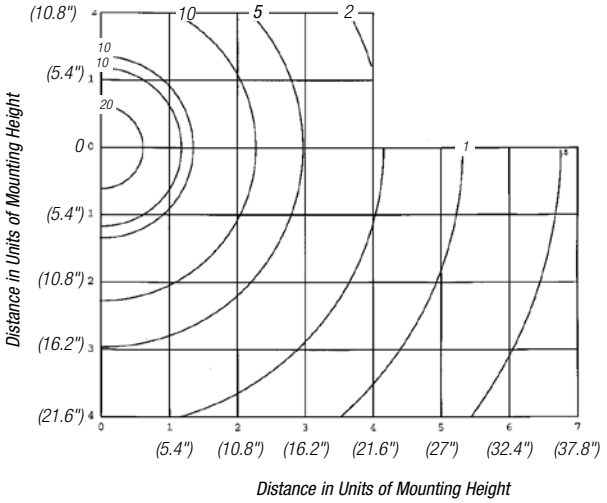
- 7.5" height option

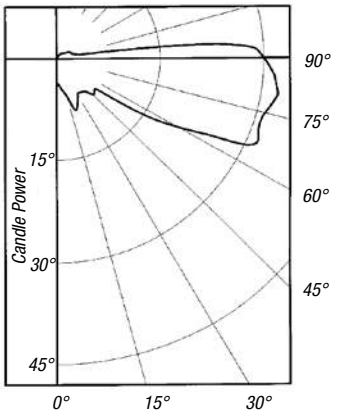



*See following page for 10" height.*

## ISO Foot Candles

Values based on .45 (5.4") foot mounting height and a 40-watt A15 clear 400-lumen lamp.




### Zonal Lumen Summary

| ZONE DEG. | LUMENS | % OF LAMP OUTPUT BASED ON 400 LUMENS | % OF TOTAL OUTPUT |
|---|---|---|---|
| 0–30 | 5 | 1.4 | 3.6 |
| 0–40 | 9 | 2.3 | 6.2 |
| 0–60 | 26 | 6.4 | 17.1 |
| 0–90 | 121 | 30.2 | 80.7 |
| 90–120 | 26 | 6.5 | 17.4 |
| 90–130 | 27 | 6.8 | 18.3 |
| 90–150 | 29 | 7.2 | 19.3 |
| 90–180 | 29 | 7.2 | 19.3 |
| 0–180 | 150 | 37.4 | 100.0 |

*Total Luminaire Efficiency = 37.4%*

| DEG | CANDELA | LUMENS |
|---|---|---|
| 0 | 4 | — |
| 5 | 4 | 0 |
| 15 | 6 | 2 |
| 25 | 7 | 3 |
| 35 | 6 | 4 |
| 45 | 7 | 5 |
| 55 | 11 | 11 |
| 65 | 30 | 28 |
| 75 | 31 | 33 |
| 85 | 32 | 34 |

| DEG | CANDELA | LUMENS |
|---|---|---|
| 90 | 30 | — |
| 95 | 24 | 21 |
| 105 | 3 | 3 |
| 115 | 2 | 2 |
| 125 | 2 | 1 |
| 135 | 1 | 1 |
| 145 | 1 | 1 |
| 155 | 0 | 0 |
| 165 | 0 | 0 |
| 175 | 0 | 0 |
| 180 | 0 | — |



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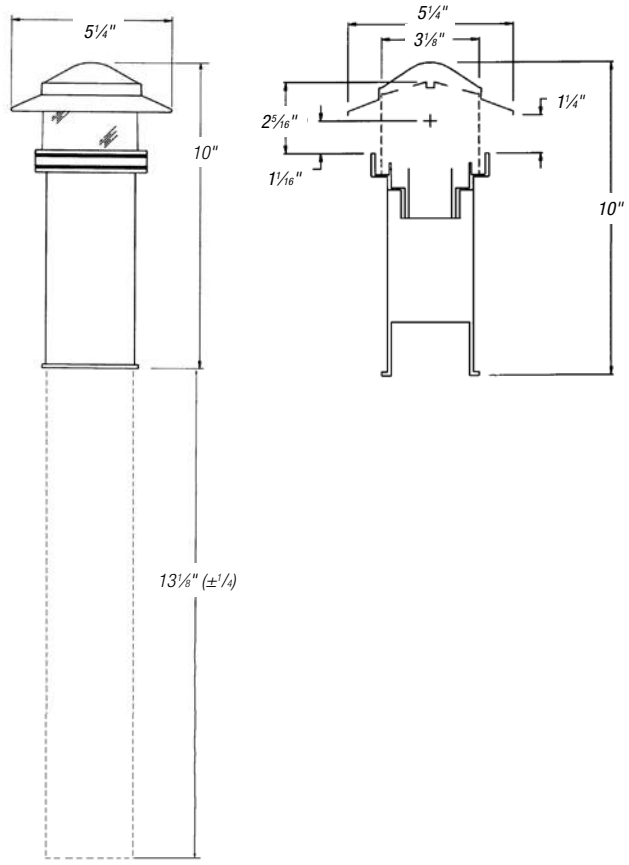
**Technical Services**
Tel: 888.862.3289

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# K812BR Specifications

## Dimensions

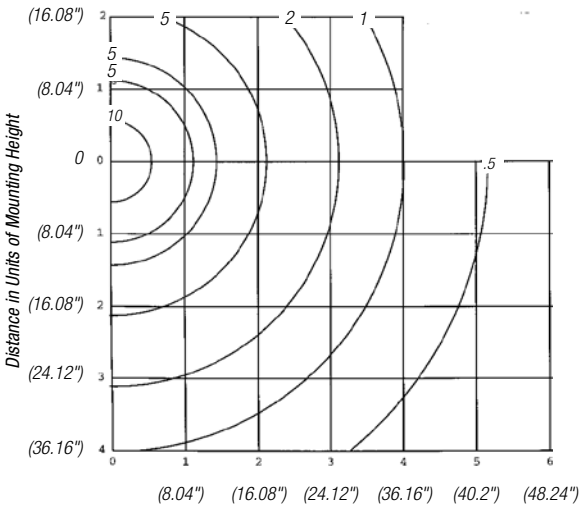
- 10" height option

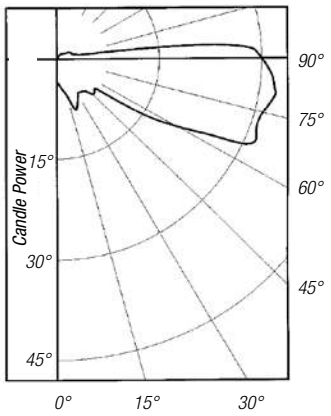



*See previous page for 7.5" height.*

## ISO Foot Candles

Values based on .67 (8.04") foot mounting height and a 40-watt A15 clear 400-lumen lamp.




### Zonal Lumen Summary

| ZONE DEG. | LUMENS | % OF LAMP OUTPUT BASED ON 400 LUMENS | % OF TOTAL OUTPUT |
|---|---|---|---|
| 0–30 | 5 | 1.4 | 3.6 |
| 0–40 | 9 | 2.3 | 6.2 |
| 0–60 | 26 | 6.4 | 17.1 |
| 0–90 | 121 | 30.2 | 80.7 |
| 90–120 | 26 | 6.5 | 17.4 |
| 90–130 | 27 | 6.8 | 18.3 |
| 90–150 | 29 | 7.2 | 19.3 |
| 90–180 | 29 | 7.2 | 19.3 |
| 0–180 | 150 | 37.4 | 100.0 |

*Total Luminaire Efficiency = 37.4%*

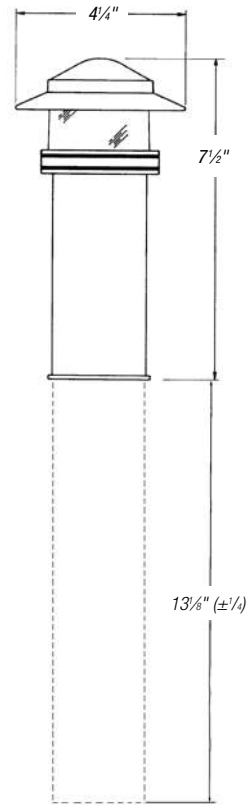
| DEG | CANDELA | LUMENS |
|---|---|---|
| 0 | 4 | — |
| 5 | 4 | 0 |
| 15 | 6 | 2 |
| 25 | 7 | 3 |
| 35 | 6 | 4 |
| 45 | 7 | 5 |
| 55 | 11 | 11 |
| 65 | 30 | 28 |
| 75 | 31 | 33 |
| 85 | 32 | 34 |

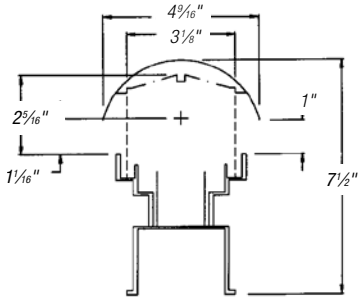
| DEG | CANDELA | LUMENS |
|---|---|---|
| 90 | 30 | — |
| 95 | 24 | 21 |
| 105 | 3 | 3 |
| 115 | 2 | 2 |
| 125 | 2 | 1 |
| 135 | 1 | 1 |
| 145 | 1 | 1 |
| 155 | 0 | 0 |
| 165 | 0 | 0 |
| 175 | 0 | 0 |
| 180 | 0 | — |

# K822BR Specifications

## Dimensions

- 7.5" height option

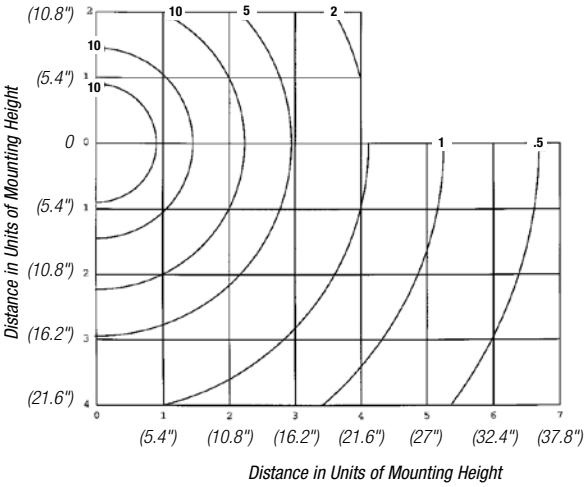


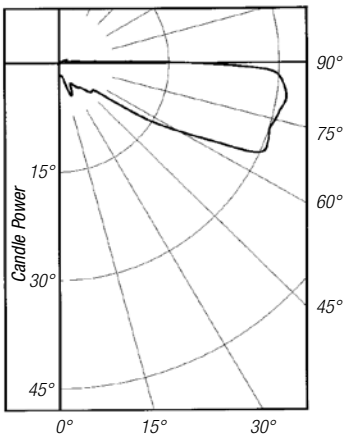




*See following page for 10" height.*

## ISO Foot Candles

Values based on .45 (5.4") foot mounting height and a 40-watt A15 clear 400-lumen lamp.




### Zonal Lumen Summary

| ZONE DEG. | LUMENS | % OF LAMP OUTPUT BASED ON 400 LUMENS | % OF TOTAL OUTPUT |
|---|---|---|---|
| 0–30 | 3 | 0.7 | 2.4 |
| 0–40 | 5 | 1.3 | 4.5 |
| 0–60 | 19 | 4.8 | 16.3 |
| 0–90 | 111 | 27.8 | 94.6 |
| 90–120 | 6 | 1.5 | 5.2 |
| 90–130 | 6 | 1.6 | 5.4 |
| 90–150 | 6 | 1.6 | 5.4 |
| 90–180 | 6 | 1.6 | 5.4 |
| 0–180 | 118 | 29.4 | 100.0 |

*Total Luminaire Efficiency = 29.4%*

| DEG | CANDELA | LUMENS |
|---|---|---|
| 0 | 2 | — |
| 5 | 2 | 0 |
| 15 | 3 | 1 |
| 25 | 4 | 2 |
| 35 | 4 | 2 |
| 45 | 6 | 4 |
| 55 | 10 | 10 |
| 65 | 29 | 27 |
| 75 | 31 | 32 |
| 85 | 31 | 33 |

| DEG | CANDELA | LUMENS |
|---|---|---|
| 90 | 22 | — |
| 95 | 3 | 4 |
| 105 | 1 | 1 |
| 115 | 1 | 0 |
| 125 | 0 | 0 |
| 135 | 0 | 0 |
| 145 | 0 | 0 |
| 155 | 0 | 0 |
| 165 | 0 | 0 |
| 175 | 0 | 0 |
| 180 | 0 | — |



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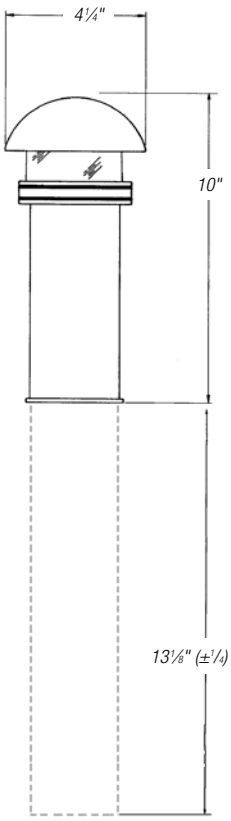
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Tel: 888.862.3289

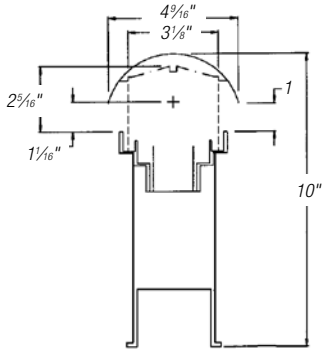
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# K822BR Specifications

## Dimensions

- 10" height option

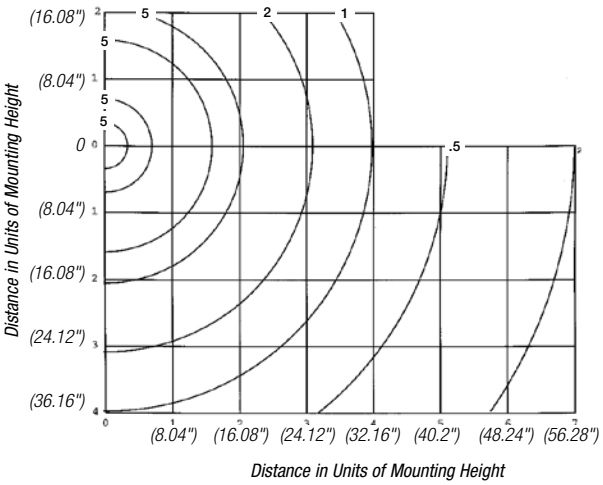


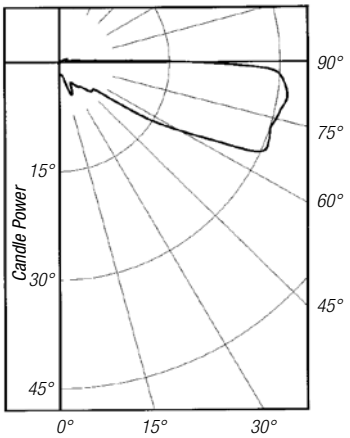




*See previous page for 7.5" height.*

## ISO Foot Candles

Values based on .67 (8.04") foot mounting height and a 40-watt A15 clear 400-lumen lamp.




### Zonal Lumen Summary

| ZONE DEG. | LUMENS | % OF LAMP OUTPUT BASED ON 400 LUMENS | % OF TOTAL OUTPUT |
|---|---|---|---|
| 0–30 | 3 | 0.7 | 2.4 |
| 0–40 | 5 | 1.3 | 4.5 |
| 0–60 | 19 | 4.8 | 16.3 |
| 0–90 | 111 | 27.8 | 94.6 |
| 90–120 | 6 | 1.5 | 5.2 |
| 90–130 | 6 | 1.6 | 5.4 |
| 90–150 | 6 | 1.6 | 5.4 |
| 90–180 | 6 | 1.6 | 5.4 |
| 0–180 | 118 | 29.4 | 100.0 |

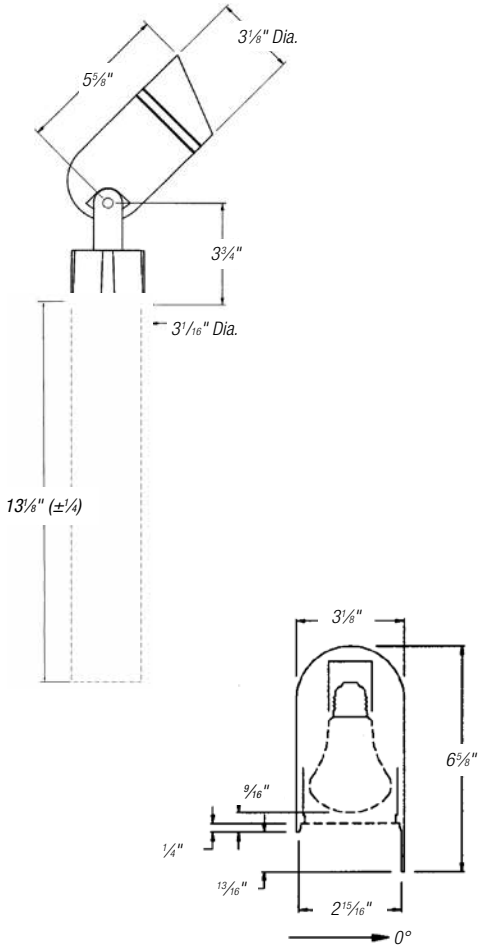
*Total Luminaire Efficiency = 29.4%*

| DEG | CANDELA | LUMENS |
|---|---|---|
| 0 | 2 | — |
| 5 | 2 | 0 |
| 15 | 3 | 1 |
| 25 | 4 | 2 |
| 35 | 4 | 2 |
| 45 | 6 | 4 |
| 55 | 10 | 10 |
| 65 | 29 | 27 |
| 75 | 31 | 32 |
| 85 | 31 | 33 |

| DEG | CANDELA | LUMENS |
|---|---|---|
| 90 | 22 | — |
| 95 | 3 | 4 |
| 105 | 1 | 1 |
| 115 | 1 | 1 |
| 125 | 0 | 0 |
| 135 | 0 | 0 |
| 145 | 0 | 0 |
| 155 | 0 | 0 |
| 165 | 0 | 0 |
| 175 | 0 | 0 |
| 180 | 0 | — |

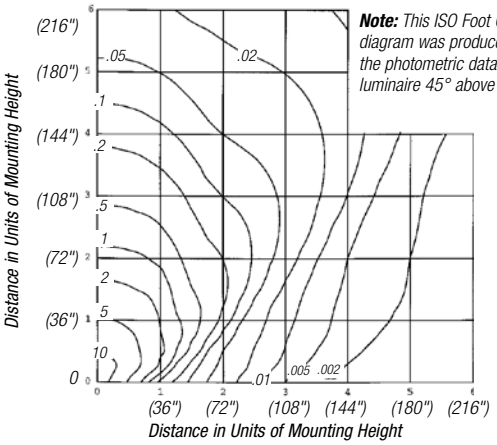
# CS841BR Specifications

## Dimensions

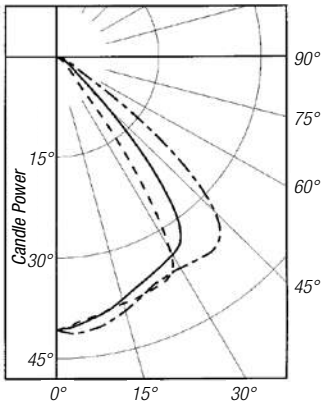



## ISO Foot Candles

Values based on 3 (36") foot setback from a vertical wall and a 100-watt incandescent 1321-lumen lamp.




***Note:*** *This ISO Foot Candle diagram was produced by tilting the photometric data for this luminaire 45° above horizontal.*




*Legend*
*0–Deg:* ----------
*90–Deg:* ——————
*180–Deg:* -·-·-·-·-·-·-

### Zonal Lumen Summary

| ZONE DEG. | LUMENS | % OF LAMP OUTPUT BASED ON 400 LUMENS | % OF TOTAL OUTPUT |
|---|---|---|---|
| 0–30 | 104 | 7.9 | 47.7 |
| 0–40 | 165 | 12.5 | 75.3 |
| 0–60 | 214 | 16.2 | 97.7 |
| 0–90 | 219 | 16.6 | 100.0 |
| 90–120 | 0 | 0.0 | 0.0 |
| 90–130 | 0 | 0.0 | 0.0 |
| 90–150 | 0 | 0.0 | 0.0 |
| 90–180 | 0 | 0.0 | 0.0 |
| 0–180 | 219 | 16.6 | 100.0 |

*Total Luminaire Efficiency = 16.6%*

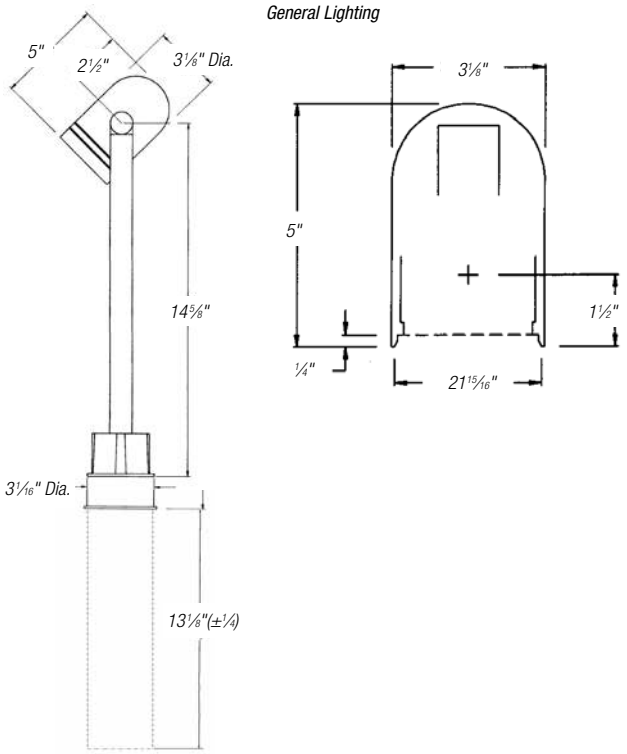
| Vertical Degrees | CANDELA DISTRIBUTION HORIZONTAL DEGREES 0.0 | 45.0 | 90.0 | 135.0 | 180.0 | FLUX |
|---|---|---|---|---|---|---|
| 0 | 136 | 136 | 136 | 136 | 136 | — |
| 5 | 132 | 132 | 133 | 136 | 138 | 13 |
| 15 | 127 | 124 | 125 | 128 | 131 | 36 |
| 25 | 124 | 121 | 117 | 126 | 122 | 56 |
| 35 | 58 | 77 | 106 | 125 | 122 | 61 |
| 45 | 9 | 12 | 35 | 93 | 109 | 37 |
| 55 | 5 | 6 | 9 | 14 | 31 | 11 |
| 65 | 0 | 1 | 4 | 6 | 8 | 4 |
| 75 | 0 | 0 | 0 | 2 | 3 | 1 |
| 85 | 0 | 0 | 0 | 0 | 1 | 0 |
| 90 | 0 | 0 | 0 | 0 | 1 | — |



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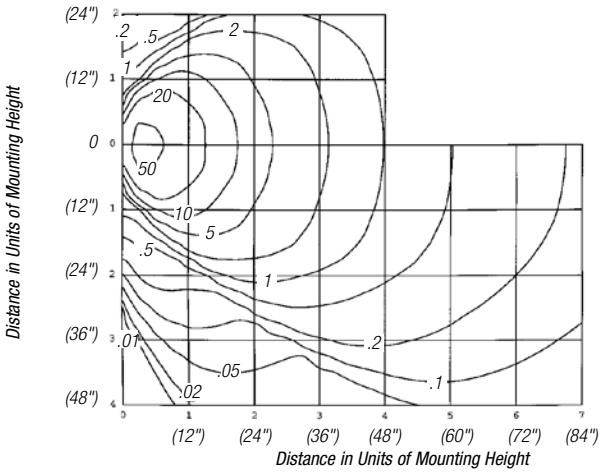
# K831BR Specifications

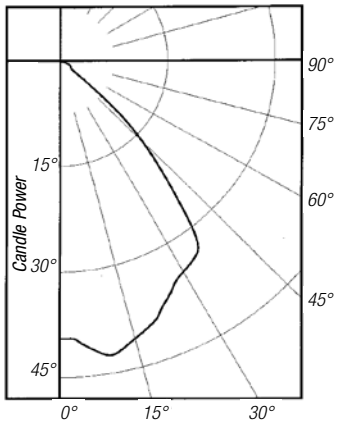
## Dimensions




## ISO Foot Candles

Values based on 1 (12") foot mounting height and a 60-watt A15 incandescent 740 lumen lamp tilted 45°.




### Zonal Lumen Summary

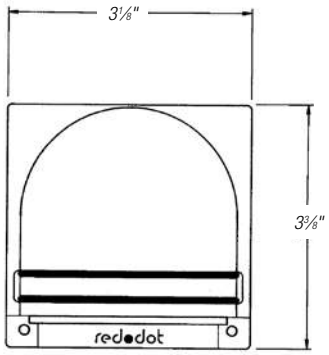
| ZONE DEG. | LUMENS | % OF LAMP OUTPUT BASED ON 400 LUMENS | % OF TOTAL OUTPUT |
|---|---|---|---|
| 0–30 | 65 | 8.7 | 47.2 |
| 0–40 | 105 | 14.2 | 77.0 |
| 0–60 | 134 | 18.1 | 97.7 |
| 0–90 | 137 | 18.5 | 100.0 |
| 90–180 | 0 | 0.0 | 0.0 |
| 0–180 | 137 | 18.5 | 100.0 |

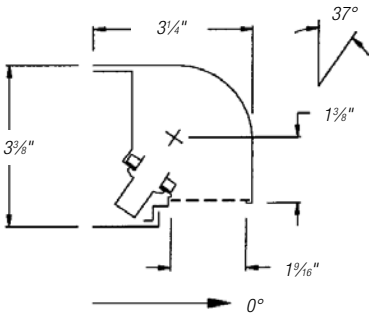
*Total Luminaire Efficiency = 18.5%*

| DEG | CANDELA | LUMENS |
|---|---|---|
| 0 | 79 | — |
| 5 | 81 | 8 |
| 15 | 82 | 23 |
| 25 | 73 | 34 |
| 35 | 67 | 41 |
| 45 | 33 | 25 |
| 55 | 4 | 3 |
| 65 | 3 | 3 |
| 75 | 0 | 0 |
| 85 | 0 | 0 |
| 90 | 0 | — |

# K851BR Specifications

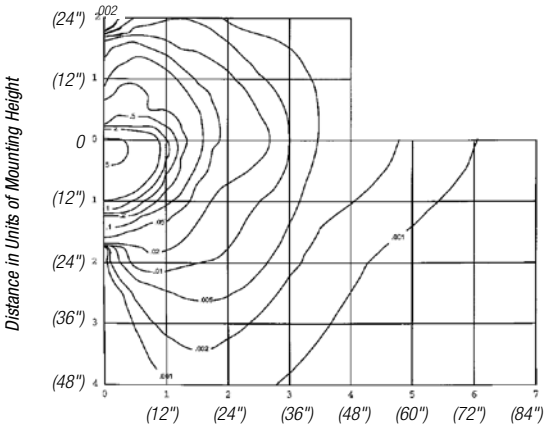
## Dimensions

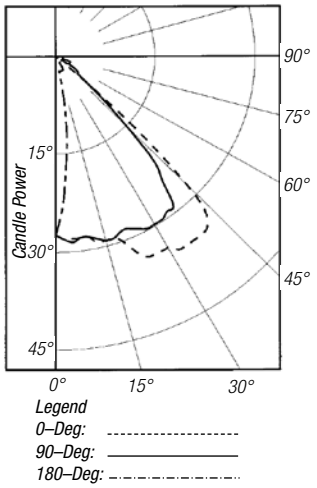



## ISO Foot Candles

Values based on 1 (12") foot mounting height from light opening of luminaire to ground stair and a 10-watt G12½ 80-lumen lamp on lens 1-ft. above ground or stair.




### Zonal Lumen Summary

| ZONE DEG. | LUMENS | % OF LAMP OUTPUT BASED ON 400 LUMENS | % OF TOTAL OUTPUT |
|---|---|---|---|
| 0–30 | 4 | 4.5 | 38.7 |
| 0–40 | 6 | 7.7 | 66.3 |
| 0–60 | 9 | 11.0 | 94.3 |
| 0–90 | 9 | 11.6 | 100.0 |
| 90–180 | 0 | 0.0 | 0.0 |
| 0–180 | 9 | 11.6 | 100.0 |

*Total Luminaire Efficiency = 11.6%.*

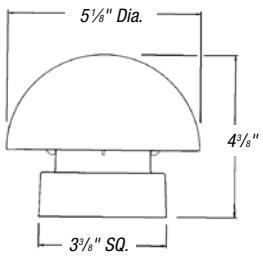
| Vertical Degrees | CANDELA DISTRIBUTION HORIZONTAL DEGREES 0.0 | 45.0 | 90.0 | 135.0 | 180.0 | FLUX |
|---|---|---|---|---|---|---|
| 0 | 5 | 5 | 5 | 5 | 5 | — |
| 5 | 6 | 6 | 6 | 5 | 3 | 0 |
| 15 | 6 | 6 | 6 | 2 | 0 | 1 |
| 25 | 7 | 7 | 6 | 1 | 0 | 2 |
| 35 | 7 | 7 | 6 | 1 | 0 | 3 |
| 45 | 6 | 5 | 3 | 1 | 0 | 2 |
| 55 | 0 | 1 | 1 | 1 | 0 | 1 |
| 65 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90 | 0 | 0 | 0 | 0 | 0 | — |

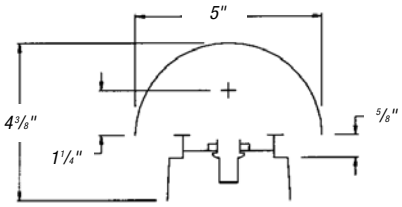


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# K852BR Specifications

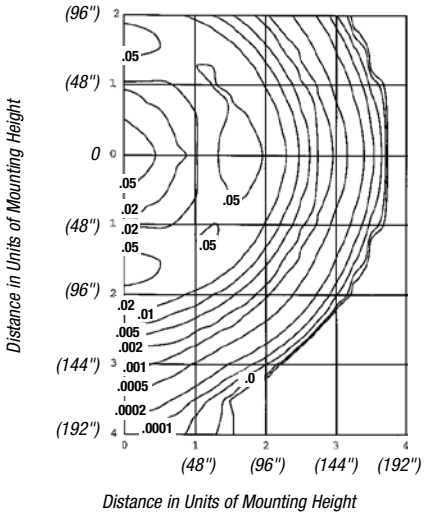
## Dimensions

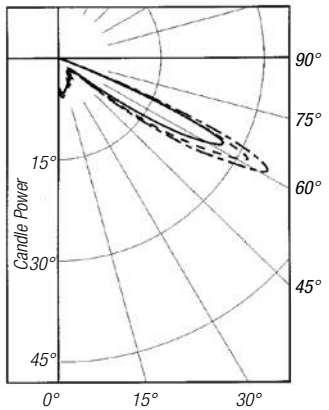



## ISO Foot Candles

Values based on 4 (48") foot mounting height from center of light opening to base of deck and a 15-watt G16½ 100-lumen lamp.



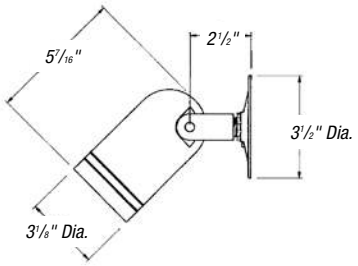

### Zonal Lumen Summary

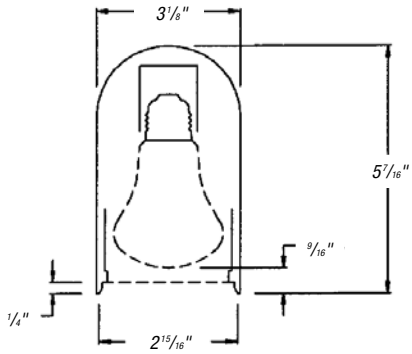
| ZONE DEG. | LUMENS | % OF LAMP OUTPUT BASED ON 400 LUMENS | % OF TOTAL OUTPUT |
|---|---|---|---|
| 0–30 | 1 | 0.9 | 8.7 |
| 0–40 | 1 | 1.3 | 12.8 |
| 0–60 | 5 | 5.5 | 52.7 |
| 0–90 | 10 | 10.4 | 100.0 |
| 90–180 | 0 | 0.0 | 0.0 |
| 0–180 | 10 | 10.4 | 100.0 |

| Vertical Degrees | CANDELA DISTRIBUTION HORIZONTAL DEGREES 0.0 | 45.0 | 90.0 | 135.0 | 180.0 | FLUX |
|---|---|---|---|---|---|---|
| 0 | 1 | 1 | 1 | 1 | 1 | — |
| 5 | 2 | 1 | 1 | 1 | 1 | 0 |
| 15 | 1 | 1 | 1 | 1 | 1 | 0 |
| 25 | 1 | 1 | 1 | 1 | 1 | 0 |
| 35 | 1 | 1 | 1 | 1 | 1 | 0 |
| 45 | 1 | 1 | 1 | 1 | 1 | 1 |
| 55 | 5 | 3 | 3 | 4 | 6 | 4 |
| 65 | 6 | 5 | 5 | 5 | 7 | 5 |
| 75 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90 | 0 | 0 | 0 | 0 | 0 | — |

# K861BR Specifications

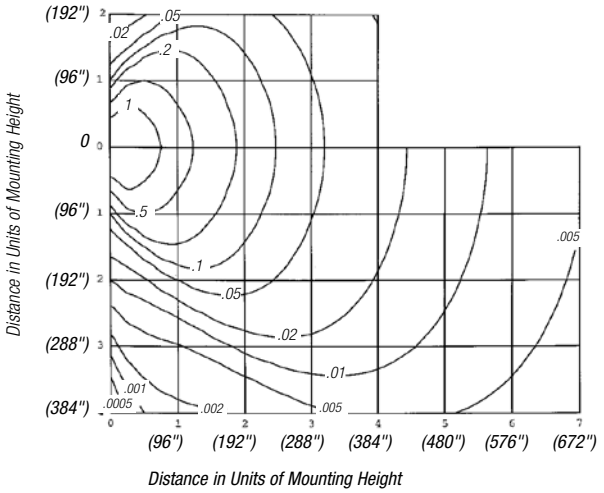
## Dimensions

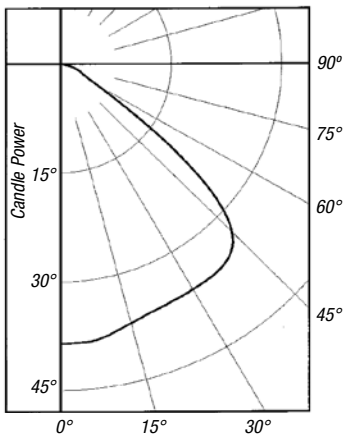



## ISO Foot Candles

Values based on 8 (96") foot mounting height and a 100-watt 1321-lumen lamp tilted 45°.




### Zonal Lumen Summary

| ZONE DEG. | LUMENS | % OF LAMP OUTPUT BASED ON 400 LUMENS | % OF TOTAL OUTPUT |
|---|---|---|---|
| 0–30 | 103 | 7.8 | 32.4 |
| 0–40 | 177 | 13.4 | 56.0 |
| 0–60 | 301 | 22.8 | 94.9 |
| 0–90 | 317 | 24.0 | 100.0 |
| 90–180 | 0 | 0.0 | 0.0 |
| 0–180 | 317 | 24.0 | 100.0 |

*Total Luminaire Efficiency = 24.0%.*

| DEG. | CANDELA | LUMENS |
|---|---|---|
| 0 | 128 | — |
| 5 | 128 | 12 |
| 15 | 123 | 35 |
| 25 | 120 | 56 |
| 35 | 119 | 75 |
| 45 | 109 | 83 |
| 55 | 44 | 41 |
| 65 | 11 | 11 |
| 75 | 5 | 5 |
| 85 | 0 | 0 |
| 90 | 0 | — |



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## Vaportight Lighting

# Industrial Vaportight Lighting

**Applications:**

- Low-maintenance indoor/outdoor lighting where moisture, dirt, dust, corrosion and rough service are problems
- Low-profile fixture design for where low ceiling height presents a lighting problem
- To light cold storage facilities, walkways, bridges, tunnels and security locations
- Used with colored globes as warning, caution or directional lights; for 100- or 200-watt medium-base incandescent lamps

**Features/Benefits:**

- Copper-free* aluminum and stainless steel screws provide increased corrosion resistance
- Precision-cast and machined surfaces permit safer wire pulling
- Fully threaded glass globes prevent cross threading, ensuring a tight seal
- High-quality replaceable porcelain socket with high-temperature leads result in a long-lasting fixture
- Five mounting configurations packaged three different ways to suit all customer requirements
- Colored, heat-resistant and shatterproof LEXAN® globes available

**Standard Materials:**

- Fixture and guards: Die-cast aluminum alloy A360 with less than .004% copper content (copper-free), and stainless steel screw
- Globe: Lime crystal glass
- Socket: Center contact, porcelain, medium base

**Standard Finish:**

- Powder-coated finish

**Compliances:**

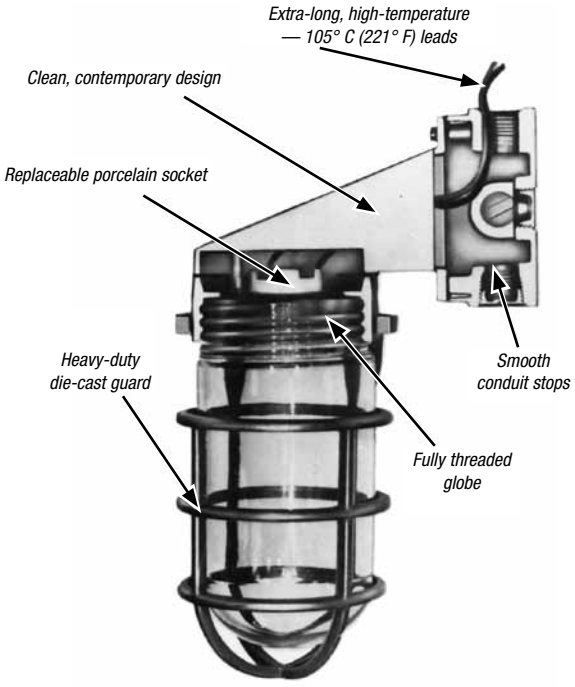
- UL® Listed
- Suitable for use in wet locations only when oriented as shown (mounted with lamp base up and guard/globe down)

**Sample Specifications**

- Fixture shall be die-cast copper-free* aluminum alloy A360. All conduit stops shall be coined and free of rough edges. LEXAN® globes shall have full threads. Sockets shall be porcelain. Fixtures shall be finished with powder-coated paint. Fixtures shall be Red•Dot® Catalog No._____

** Less than .004% copper content.*

*LEXAN® is a registered trademark of SABIC Innovative Plastics Company.*





VAG-C


VKG-C


VWG-C


VXG-C


VXWG-C

# Vaportight Lighting

## Low-Maintenance Indoor/Outdoor Lighting where Moisture, Dirt, Dust, Corrosion and Rough Service are a Problem.



- Compatible with incandescent and most self-ballasted compact fluorescent bulbs
- For indoor or outdoor use
- Fixture and guard die-cast copper-free aluminum, less than .004% copper content
- Available in components or complete fixture
- Low-silhouette incandescent vaportight
- Variety of mounting configurations
- UL® Listed

### Pendant Mount



*VK-11*



*VK-22*



*VKG-11-C*

| CAT. NO. | HUB SIZE (IN.) | MAX. WATT | DESCRIPTION |
|---|---|---|---|
| VK-11 | ½ | 100 | Pendant Cap with Socket Screw Terminals, Gasket and Screws |
| VK-21 | ¾ | 100 | |
| VK-12 | ½ | 200 | |
| VK-22 | ¾ | 200 | Pendant Cap with Socket Screw Terminals, Gasket Screws and Globe |
| VKG-11 | ½ | 100 | |
| VKG-21 | ¾ | 100 | |
| VKG-12 | ½ | 200 | |
| VKG-22 | ¾ | 200 | |
| VKG-11-C | ½ | 100 | Pendant Cap with Socket Screw Terminals, Gasket Screws, Globe and Cast Guard |
| VKG-21-C | ¾ | 100 | |
| VKG-12-C | ½ | 200 | |
| VKG-22-C | ¾ | 200 | |

### Ceiling Mount with Adapter Plate



*VA-01*



*VAG-01*



*VAG-01-C*

| CAT. NO. | HUB SIZE (IN.) | MAX. WATT | DESCRIPTION |
|---|---|---|---|
| VA-01 | — | 100 | Ceiling Outlet Box Cap with Socket with Leads, Gasket and Screws |
| VA-02 | — | 200 | |
| VAG-01 | — | 100 | Ceiling Outlet Box Cap with Socket with Leads, Gasket, Screws and Globe |
| VAG-02 | — | 200 | |
| VAG-01-C | — | 100 | Ceiling Outlet Box Cap with Socket with Leads, Gasket, Screws, Globe and Cast Guard |
| VAG-02-C | — | 200 | |

### Ceiling Mount Cross Feed (5 Tapped Holes)



*VX-11*



*VXG-11*



*VXG-11-C*

| CAT. NO. | HUB SIZE (IN.) | MAX. WATT | DESCRIPTION |
|---|---|---|---|
| VX-11 | ½ | 100 | Ceiling-Cross Feed Box with Gaskets, Socket with Leads, Screws, 4 Closure Plugs and Cast Mounting Lugs |
| VX-21 | ¾ | 100 | |
| VX-12 | ½ | 200 | |
| VX-22 | ¾ | 200 | |
| VXG-11 | ½ | 100 | Ceiling-Cross Feed Box with Gaskets, Socket with Leads, Screws, 4 Closure Plugs and Cast Mounting Lugs and Globe |
| VXG-21 | ¾ | 100 | |
| VXG-12 | ½ | 200 | |
| VXG-22 | ¾ | 200 | |
| VXG-11-C | ½ | 100 | Ceiling-Cross Feed Box with Gaskets, Socket with Leads, Screws, 4 Closure Plugs, Cast Mounting Lugs, Globe and Cast Guard |
| VXG-21-C | ¾ | 100 | |
| VXG-12-C | ½ | 200 | |
| VXG-22-C | ¾ | 200 | |



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# Vaportight Lighting



## Wall Mount with Adapter Plate



| CAT. NO. | MAX. WATT | DESCRIPTION |
|---|---|---|
| VW-01 | 100 | Wall Mount Unit with Socket with Leads, Gaskets and Screws |
| VW-02 | 200 | |
| VWG-01 | 100 | Wall Mount Unit with Socket with Leads, Gaskets and Screws and Globe |
| VWG-02 | 200 | |
| VWG-01-C | 100 | Wall Mount Unit with Socket with Leads, Gaskets, Globe, Screws and Cast Guard |
| VWG-02-C | 200 | |

## Wall Mount Cross Feed (5 Tapped Holes)



| CAT. NO. | HUB SIZE (IN.) | MAX. WATT | DESCRIPTION |
|---|---|---|---|
| VXW-11 | ½ | 100 | Wall Mount Cross Feed with Socket with Leads, Gaskets, Screws, 4 Closure Plugs and Cast Mounting Lugs |
| VXW-21 | ¾ | 100 | |
| VXW-12 | ½ | 200 | |
| VXW-22 | ¾ | 200 | |
| VXWG-11 | ½ | 100 | Wall Mount Cross Feed with Socket with Leads, Gaskets, Screws, 4 Closure Lugs and Globe |
| VXWG-21 | ¾ | 100 | |
| VXWG-12 | ½ | 200 | |
| VXWG-22 | ¾ | 200 | |
| VXWG-11-C | ½ | 100 | Wall Mount Cross Feed with Socket with Leads, Gaskets, Screws, 4 Closure Plugs, Cast Mounting Lugs, Globe and Cast Guard |
| VXWG-21-C | ¾ | 100 | |
| VXWG-12-C | ½ | 200 | |
| VXWG-22-C | ¾ | 200 | |

## Globes

| CAT. NO. | MAX. WATT | DESCRIPTION |
|---|---|---|
| *Glass* | | |
| VGL-01 | 100 | Clear |
| VGLA-01 | 100 | Amber |
| VGLB-01 | 100 | Blue |
| VGLG-01 | 100 | Green |
| VGLR-01 | 100 | Red |
| VGLH-01 | 150 | Clear, Heat Resistant |
| VGL-02 | 200 | Clear |
| VGLR-02 | 200 | Red |
| VGLH-02 | 300 | Clear, Heat Resistant |
| *LEXAN®* | | |
| VGLL-01 | 75 | Clear Prismatic |
| VGLL-02 | 150 | Clear Prismatic |
| VGLA-A1 | 75 | Amber |
| VGLA-R1 | 75 | Red |

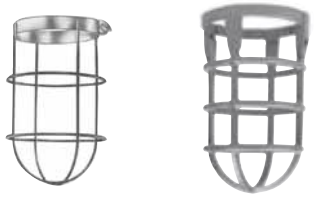
**Not for use with guards.**

***Note:*** *For upright mounting only. Caution: In ordering LEXAN® Globe, wattage is rated 75% of standard globe size (i.e. VGLL-02 is for use on 200-watt fixtures, but only rated for 150-watt lamps.)*





## Guards



| CAT. NO. | MAX. WATT | DESCRIPTION |
|---|---|---|
| *Wire* | | |
| VGW-01 | 100 | Clamp-On Plated Steel Guards |
| VGW-02 | 200 | |
| *Die Cast* | | |
| VGD-01 | 100 | Die-Cast Aluminum Guards with Positive Locking Screws |
| VGD-02 | 200 | |

## Vaportight Boxes and Covers



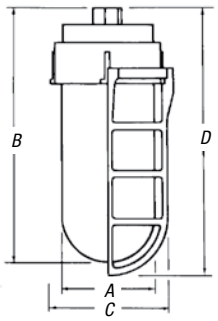
| CAT. NO. | MAX. WATT | DESCRIPTION |
|---|---|---|
| *Boxes* | | Box, 3½" Diameter, 1⅝" Deep, 5 Tapped Holes, 12.08 Cu. In. 4 Closure Plugs with Cast Mounting Lugs |
| LVX-1 | ½ | |
| LVX-2 | ¾ | |
| *Cover* | | |
| V-B | None | Blank Cover 3½" Diameter |

# Vaportight Lighting

## VKG

| CAT. NO. | A (IN.) | B (IN.) |
|---|---|---|
| VKG-11 | 3⅜ | 8³⁄₁₆ |
| VKG-21 | 3⅜ | 8³⁄₁₆ |
| VKG-12 | 4⅜ | 10⅛ |
| VKG-22 | 4⅜ | 10⅛ |

| CAT. NO. | C (IN.) | D (IN.) |
|---|---|---|
| VKG-11-C | 4¹⁄₁₆ | 8¾ |
| VKG-21-C | 4¹⁄₁₆ | 8¾ |
| VKG-12-C | 5¼ | 10⅝ |
| VKG-22-C | 5¼ | 10⅝ |

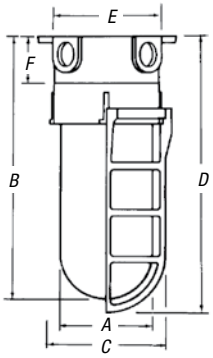



*Pendant Mount (VKG)*

## VXG

| CAT. NO. | A (IN.) | B (IN.) | E (IN.) | F (IN.) |
|---|---|---|---|---|
| VXG-11 | 3⅜ | 8¹³⁄₁₆ | 3½ | 1⅝ |
| VXG-21 | 3⅜ | 8¹³⁄₁₆ | 3½ | 1⅝ |
| VXG-12 | 4⅜ | 10¾ | 3½ | 1⅝ |
| VXG-22 | 4⅜ | 10¾ | 3½ | 1⅝ |

| CAT. NO. | C (IN.) | D (IN.) |
|---|---|---|
| VXG-11-C | 4¹⁄₁₆ | 9⁵⁄₁₆ |
| VXG-21-C | 4¹⁄₁₆ | 9⁵⁄₁₆ |
| VXG-12-C | 5¼ | 11³⁄₁₆ |
| VXG-22-C | 5¼ | 11³⁄₁₆ |

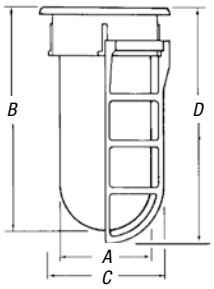



*Ceiling Mount Cross Feed (VXG)*

## VAG

| CAT. NO. | A (IN.) | B (IN.) |
|---|---|---|
| VAG-01 | 3⅜ | 7⁷⁄₁₆ |
| VAG-02 | 4⅜ | 9⅜ |

| CAT. NO. | C (IN.) | D (IN.) |
|---|---|---|
| VAG-01-C | 4¹⁄₁₆ | 7¹⁵⁄₁₆ |
| VAG-02-C | 5¼ | 9¹³⁄₁₆ |

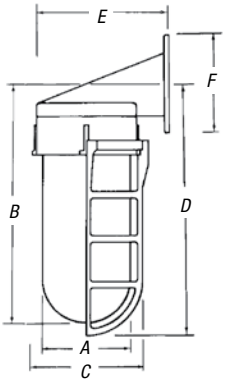



*Ceiling Mount (VAG)*

## VWG

| CAT. NO. | A (IN.) | B (IN.) | E (IN.) | F (IN.) |
|---|---|---|---|---|
| VWG-01 | 3⅜ | 8⁷⁄₁₆ | 4¾ | 3½ |
| VWG-02 | 4⅜ | 10⅜ | 5¾ | 3½ |

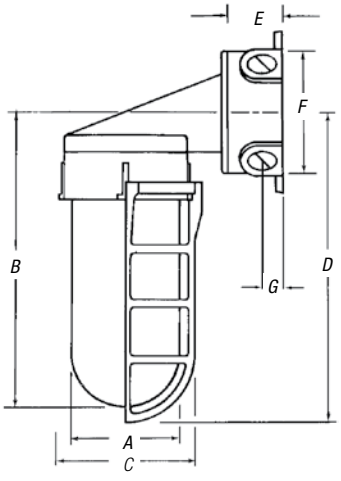
| CAT. NO. | C (IN.) | D (IN.) |
|---|---|---|
| VWG-01-C | 4¹⁄₁₆ | 8¹⁵⁄₁₆ |
| VWG-02-C | 5¼ | 10¹³⁄₁₆ |




*Wall Mount (VWG)*

## VXWG

| | DIMENSIONS (IN.) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT. NO. | A | B | C | D | E | F | G | H | I | J | CI |
| VXWG-11 | 3⅜ | 8⁷⁄₁₆ | — | — | 1⅝ | 3½ | — | — | — | — | — |
| VXWG-21 | 3⅜ | 8⁷⁄₁₆ | — | — | 1⅝ | 3½ | — | — | — | — | — |
| VXWG-12 | 4⅜ | 10⅜ | — | — | 1⅝ | 3½ | — | — | — | — | — |
| VXWG-22 | 4⅜ | 10⅜ | — | — | 1⅝ | 3½ | — | — | — | — | — |
| VXWG-11-C | 3⅜ | 8⁷⁄₁₆ | 4¹⁄₁₆ | 8¹⁵⁄₁₆ | 1⅝ | 3½ | — | — | — | — | — |
| VXWG-21-C | 3⅜ | 8⁷⁄₁₆ | 4¹⁄₁₆ | 8¹⁵⁄₁₆ | 1⅝ | 3½ | — | — | — | — | — |
| VXWG-12-C | 4⅜ | 10⅜ | 5³⁄₁₆ | 10¹³⁄₁₆ | 1⅝ | 3½ | — | — | — | — | — |
| VXWG-22-C | 4⅜ | 10⅜ | 5³⁄₁₆ | 10¹³⁄₁₆ | 1⅝ | 3½ | — | — | — | — | — |
| LVX-1 | — | — | — | — | 1⅝ | 3½ | ⅝ | 5 | 4⁷⁄₁₆ | 2¹³⁄₁₆ | 10.3 |
| LVX-2 | — | — | — | — | 1⅝ | 3½ | ⅝ | 5 | 4⁷⁄₁₆ | 2¹³⁄₁₆ | 10.3 |




*Wall Mount Cross Feed (VXWG)*



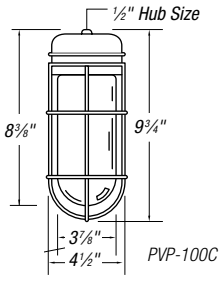
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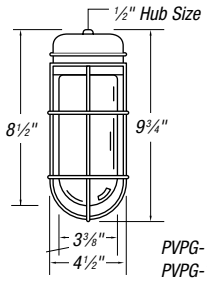
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## Pendant Fixtures



PVP-100C

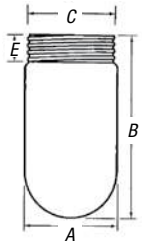


PVPG-100B
PVPG-100R

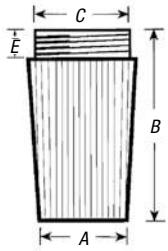
| CAT. NO. | DESCRIPTION | MAX. WATTS | PACKAGING BOX | PACKAGING STD. CTN. |
|---|---|---|---|---|
| **PVP-100C** | Fixture and Clear LEXAN® Globe | 100 | 1 | 12 |
| **PVPG-100B** | Fixture, Blue LEXAN® Globe, Guard | 100 | 1 | 12 |
| **PVPG-100R** | Fixture, Red LEXAN® Globe, Guard | 100 | 1 | 12 |

*UL Listed. CSA Certified LR-95792.*

## VGL



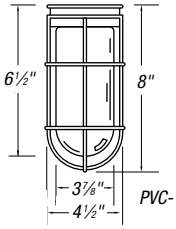
Threaded Glass Globe (VGL)



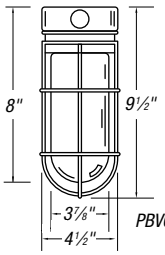
Threaded Glass Plastic Globe (VGL, VGLL)

| CAT. NO. | A (IN.) | B (IN.) | C (IN.) | D (IN.) | E (IN.) | I.D (IN.) |
|---|---|---|---|---|---|---|
| **VGL-01 SERIES** | 3⅜ | 6 17/32 | 3 5/16 | 1 | — | 2 11/16 |
| **VGL-02 SERIES** | 4⅜ | 8⅜ | 4 5/16 | 1 | — | 3 13/16 |
| **VGLL-01** | 3 17/32 | 5 15/16 | 3⅜ | — | ⅞ | 2⅞ |
| **VGLL-02** | 4 17/32 | 8¼ | 4⅜ | — | ⅞ | 3⅞ |
| **VGLA-A1** | 3 17/32 | 5 15/16 | 3⅜ | — | ⅞ | 2⅞ |
| **VGLA-R1** | 3 17/32 | 5 15/16 | 3⅜ | — | ⅞ | 2⅞ |

## Surface Fixtures



PVC-100C



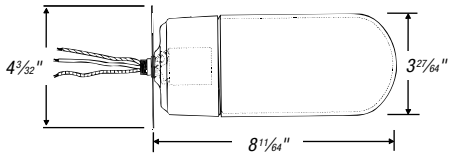
PBVC-100C

| CAT. NO. | DESCRIPTION | MAX. WATTS | PACKAGING BOX | PACKAGING STD. CTN. |
|---|---|---|---|---|
| ***Fits all 3" and 4" Round or Octagon Boxes*** | | | | |
| **PVC-100C** | Fixture and Clear LEXAN® Globe | 100 | 1 | 12 |
| **PBVC-100C** | Fixture, Box and Clear LEXAN® Globe | 100 | 1 | 12 |

*UL Listed E-77360. CSA Certified LR-95792.*

*LEXAN® is a registered trademark of SABIC Innovative Plastics Company.*

## Universal Economy Fixture





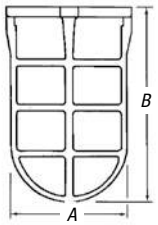
BL-100

| CAT. NO. | DESCRIPTION | MAX. WATTS | STD. CTN. |
|---|---|---|---|
| **BL-100** | Fixture and Glass Globe | 75 | 10 |

### Replacement Parts

| CAT. NO. | DESCRIPTION | PACKAGING BOX | PACKAGING STD. CTN. |
|---|---|---|---|
| ***Sockets*** | | | |
| **R122** | Socket for All Vapor-Proof Fixtures | — | 250 |

## VGD, VGW

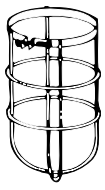


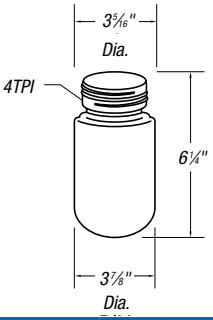
Guards (VGD, VGW)

| CAT. NO. | A (IN.) | B (IN.) |
|---|---|---|
| **VGD-01** | 4 1/16 | 7 |
| **VGD-02** | 5 5/16 | 8⅝ |
| **VGW-01** | 4 1/16 | 6 41/64 |
| **VGW-02** | 5 5/16 | 8 37/64 |

## Vaporproof Fixture Globes and Guards Replacements


PVG-1A


VG-3 &VG-4



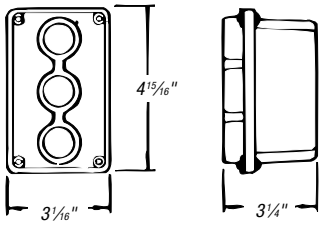

| CAT. NO. | DESCRIPTION | PACKAGING BOX | PACKAGING STD. CTN. |
|---|---|---|---|
| **PVG-1A*** | Amber LEXAN® Globe for 100-Watt Fixtures | 1 | 12 |
| **PVG-1C*** | Clear LEXAN® Globe for 100-Watt Fixtures | 1 | 12 |
| **PVG-1R*** | Red LEXAN® Globe for 100-Watt Fixtures | 1 | 12 |
| **PVG-1W*** | White LEXAN® Globe for 100-Watt Fixtures | 1 | 12 |
| **VG-3** | Guard for 100-Watt Fixtures | 1 | 12 |
| **VG-4** | Guard for 200-Watt Fixtures | 1 | 6 |

** UL Listed E-77360.*

# Used for Making Wiring Connections to Underwater Pool Lighting, Line or Low-Voltage.

## Swimming Pool Junction Boxes

- Black LEXAN® cover, die-cast solid brass base
- Supplied with brass closure plugs, four ground screws, sealing gasket and mounting hardware
- 3 1/16" x 4 3/16" x 3 1/4" deep
- Listed in accordance to NEC® Section 680.24

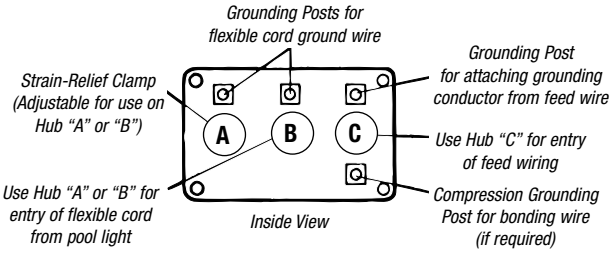


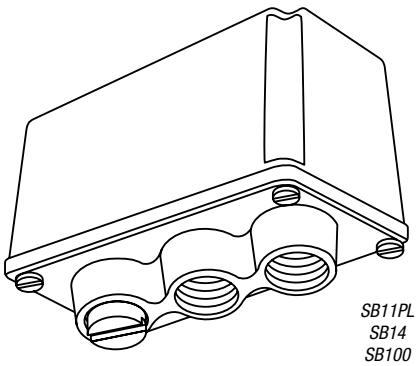



SPJ-3



SPJ-5



SB11PL
SB14
SB100

### SPJ Series

| CAT. NO. | NO. OF PLUGS | HUB SIZE | STD. CTN. |
|---|---|---|---|
| SPJ-3 | 3 | (2) ½" and (1) 1" | 24 |
| SPJ-5 | 5 | (1) ½", (2) ¾" and (2) 1" | 24 |
| SPJ-MB | — | Mounting Brackets | 24 |
| SPJ-SR | — | Rod | 24 |

### SB Series

| CAT. NO. | CUBIC IN. | NO. OF PLUGS | DESCRIPTION CONDUIT HUB SIZE (IN.) A | B | C | PACKAGING BOX | STD. CTN. |
|---|---|---|---|---|---|---|---|
| SB11PL | 22.0 | 1 | ½ | ½ | ½ | 1 | 10 |
| SB14 | 22.0 | 1 | ¾ | ¾ | ¾ | 1 | 10 |
| SB100 | 22.0 | 1 | ¾ | 1 | ¾ | 1 | 10 |

*UL Listed E-63648.*

*Weatherproof.*

*LEXAN® is a registered trademark of SABIC Innovative Plastics Company.*

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Carlon®

# Carlon® Enclosures & Junction Boxes

**In this section...**



## Carlon® Enclosures & Junction Boxes


Carlon® Non-Metallic Junction Boxes.....A-266–A-274
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Circuit Safe® JIC Enclosures.....A-284–A-288
Circuit Safe® Pushbutton Enclosures.....A-289–A-292
Circuit Safe® Enclosure Accessories.....A-293–A-298
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## Carlon® Non-Metallic Junction Boxes

# To give you a better way to install parking lot lights, we started at the bottom.



## Curved Lid J-Box

Anyone who's worked with parking lot light poles knows the problem. Those tiny, integral hand holes for electrical wiring can really slow a project down. But now, there's a better answer for shopping centers, car dealerships, sports arenas, office complexes or anywhere you need pole lighting for large parking lot areas — the Carlon® non-metallic curved lid J-Boxes.

Carlon® curved lid J-Boxes are listed in accordance with UL 50 specifications for Electrical Enclosures as well as NEMA 1, 2, 3, 3R, 3S, 4, 4X, 12 and 13 ratings. They are available in sizes 8" x 8" or 12" x 12". Both the base and lid are made from PVC to eliminate rust and corrosion, and both are supplied with tamper-resistant screws.

Designed specifically for use with 24" diameter concrete piers, J-Boxes are installed, along with all necessary conduit and fittings, when piers are poured. This gives installers a giant junction box at the base of every pole to ease wiring, facilitate circuit management and provide easy post-installation maintenance. Just take a closer look, and you'll see why our non-metallic J-Boxes are a better choice for you.

## Install Carlon® Weatherproof Covers

### Features

- NEMA 1, 2, 3, 3R, 3S, 4, 4X, 12, 13
- UL® Listed and CSA Certified
- Paintable lid
- Dividers available to separate high and low voltage, and can be retrofitted into existing applications
- Lids provide locations to mount weatherproof covers:

  8" x 8" — One location

  12" x 12" — Three locations
- Nonconductive and noncorrosive
- Designed for a 24" diameter concrete pier

***Note:*** *The J-Box can also be installed in concrete piers from 18" to 36" in diameter. Contact your Thomas & Betts representative for installation details.*





Thomas&Betts

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# Carlon® Non-Metallic Junction Boxes



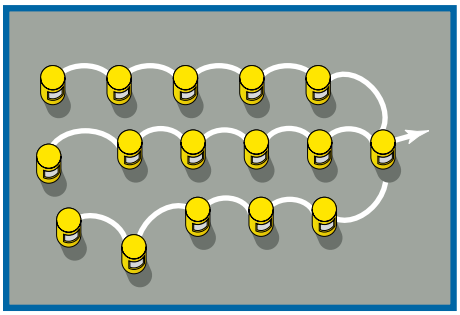
## Faster, easier wiring for greater productivity.



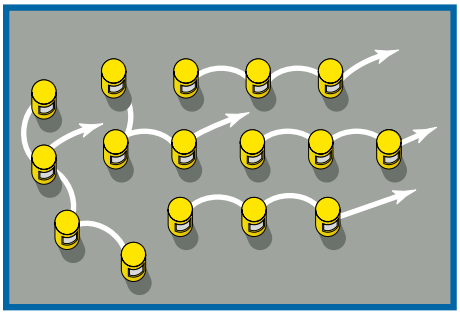
Once your J-Boxes are installed, you can speed projects along by pre-wiring before poles arrive. Or, you can install poles first and use them to mount cable-pulling equipment — a particular advantage for long, difficult wire pulls. Of course, all the extra hand room our J-Boxes offer makes splicing much easier and faster than working through cramped pole-access holes.

## More flexibility, fewer home runs and easier maintenance, too.

Extra room also gives you splicing space for options like zone lighting or to reduce the number of home runs, which can lower trenching and associated materials costs by up to 30%. In addition, the box lids provide locations to mount receptacles and weatherproof covers for even more flexibility. For easy maintenance, fixture protection can be placed at the base, and if need be, poles can even be removed and replaced in the middle of the circuit without affecting overall lighting.



*Site Lighting Plan with J-BOX*



*Site Lighting Plan without J-BOX*

## Easy to Install



1 J-Box, with all conduit and fittings placed as desired, is temporarily attached to the concrete form — base and lid inside.



2 Remove form after concrete has been poured and allowed to cure.



3 Pop off the J-Box lid, leaving an 8" x 8" x 4" or 12" x 12" x 4" access area, depending on the J-Box selected.



4 After wiring is completed, the lid is replaced to complete the installation.

# Carlon® Non-Metallic Junction Boxes

## J-Box Assemblies

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E88C24 | 8 x 8 x 4 | 6 | 28.3 |
| E1212C24 | 12 x 12 x 4 | 2 | 9.7 |



LISTED E108856 LR31146 Except where noted by ◆

# Accessories

## Replacement Lids



| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E88L24 | 8 x 8 | 1 | 2.1 |
| E1212L24 | 12 x 12 | 1 | 2.3 |

## Dividers

The **National Electrical Code® (NEC®)** allows electrical conductors to share an outlet box when the conductors and communication cables are separated by a barrier within the box.



*J-Box Dividers are used to separate high- and low-voltage devices and solvent cement into place.*

| | CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| ◆ | **E88DIV** (For use with **CAT. NO. E88C24**) | 6 | 2.1 |
| ◆ | **E1212DIV** (For use with **CAT. NO. E1212C24**) | 2 | 2.3 |

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*



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# Molded Non-Metallic Junction Boxes — 6P Rated



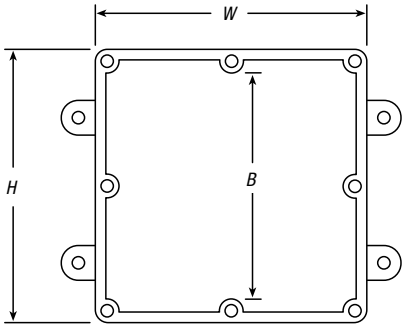
Non-metallic junction boxes are UL® Listed with a NEMA 6P rating per Section 314.28 of the National Electrical Code® and CSA Certified per Section 12 of the Canadian Electrical Code. Manufactured from PVC or polycarbonate and featuring foam-in-place gasketed lids attached with stainless steel screws, these rugged enclosures offer all the corrosion resistance and physical properties you need for direct burial applications.

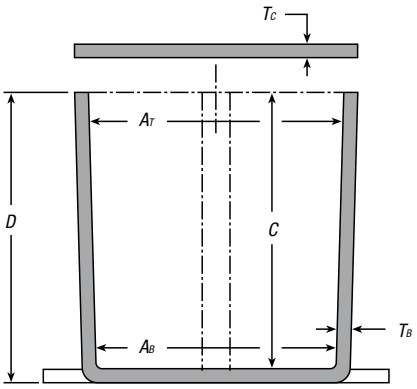
Type 6P enclosures are intended for indoor or outdoor use, primarily to provide a degree of protection against contact with enclosed equipment, falling dirt, hose-directed water, entry of water during prolonged submersion at a limited depth and external ice formation.

- All Carlon® Junction Boxes are UL® Listed/CSA Certified and maintain a minimum of a NEMA Type 4/4x Rating
- Part numbers with an asterisk (*) are UL® Listed and maintain a NEMA Type 6P Rating and Type 4/4X Rating

Except where noted by †

LISTED E11461




| CAT. NO. | SIZE (IN.) H x W x D | STD. CTN. | DIMENSIONS (IN.) MIN $A_T$ | MIN $A_B$ | MIN B | MIN C | $T_B$ | $T_C$ | MATERIAL PVC | MATERIAL POLYCARBONATE | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **E989NNJ*** | 4 x 4 x 2 | 10 | 3 11/16 | 3 5/8 | N/A | 2 | .160 | .155 | X | | 3 |
| **E987N*** | 4 x 4 x 4 | 10 | 3 11/16 | 3 1/2 | N/A | 4 | .160 | .155 | X | | 4 |
| **E989NNR*†** | 4 x 4 x 6 | 10 | 3 11/16 | 3 3/8 | N/A | 6 | .160 | .200 | X | | 5 |
| **E989PPJ*** | 5 x 5 x 2 | 10 | 4 11/16 | 4 1/2 | N/A | 2 | .110 | .150 | | X | 3 |
| **E987R-CAR*** | 6 x 6 x 4 | 2 | 6 | 5 5/8 | N/A | 4 | .190 | .190 | | X | 3 |
| **E989RRR-UPC*** | 6 x 6 x 6 | 8 | 5 5/8 | 5 3/8 | N/A | 6 | .160 | .150 | | X | 14 |
| **E989N-CAR** | 8 x 8 x 4 | 1 | 8 | 8 | N/A | 4 | .185 | .190 | | X | 2 |
| **E989SSX-UPC** | 8 x 8 x 7 | 2 | 7 21/32 | 7 5/16 | N/A | 7 | .160 | .150 | | X | 6 |
| **E989UUN** | 12 x 12 x 4 | 3 | 11 5/8 | 11 1/2 | 11 1/8 | 4 | .160 | .150 | | X | 12 |
| **E989R-UPC** | 12 x 12 x 6 | 2 | 11 15/16 | 11 7/8 | 11 7/16 | 6 | .265 | .185 | | X | 10 |

** UL Listed*

*† Not CSA Certified*

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

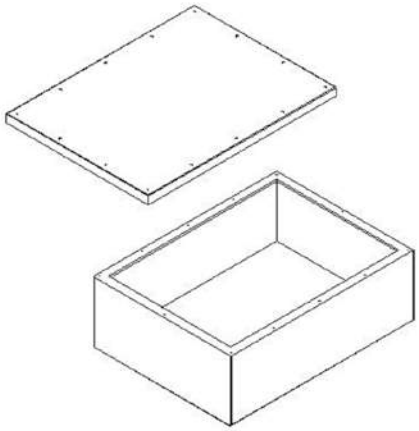
# Large PVC Junction Boxes — NEMA 4X



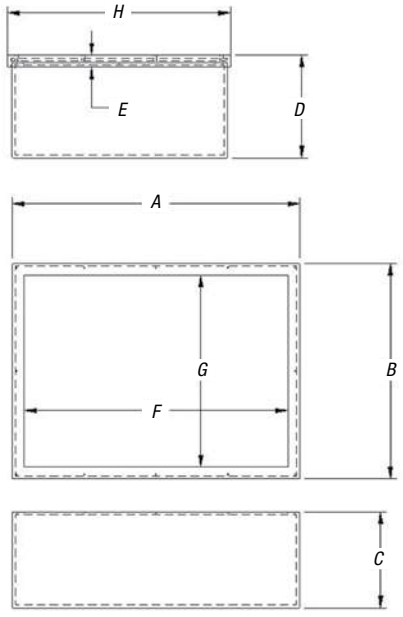
Large PVC Junction Boxes are fabricated from Type II PVC sheet. Reduce the use of steel boxes and keep your wiring connections clean, safe and dry using these high-quality, fully gasketed junction boxes.

**Features and Benefits:**

- PVC Type II material with "Uni-Body" construction and penetration welding providing a very strong, durable enclosure
- UL94V-0 flame rating
- Suitable for exposure of up to 90° C
- PVC material enables the use of standard solvent cements for fitting attachment
- Junction boxes are available with or without mounting flanges
- Individual mounting feet are available and provided in kits of four
- Custom features such as windows or panel mounts are available
- Custom sizes are also available upon request
- Made in the USA



| CAT. NO. | DIMENSIONS (IN.) A | B | C | D | E | F | G | H | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|---|---|---|
| EP12128 | 12 | 12 | 8 | 8.25 | 1.00 | 10.5 | 10.5 | 12.75 | 11 |
| EP181812 | 18 | 18 | 12 | 12.25 | 1.00 | 16 | 16 | 18.75 | 21 |
| EP201808 | 20 | 18 | 8 | 8.25 | 1.00 | 18 | 16 | 18.75 | 20 |
| EP202008 | 20 | 20 | 8 | 8.25 | 1.00 | 18 | 18 | 20.75 | 22 |
| EP241808 | 24 | 18 | 8 | 8.25 | 1.00 | 22 | 16 | 18.75 | 24 |
| EP242008 | 24 | 20 | 8 | 8.25 | 1.00 | 21.5 | 17.5 | 20.75 | 25 |
| EP242408 | 24 | 24 | 8 | 8.25 | 1.00 | 21.5 | 21.5 | 24.75 | 29 |
| EP302408 | 30 | 24 | 8 | 8.25 | 1.00 | 27.5 | 21.5 | 24.75 | 34 |
| EP362408 | 36 | 24 | 8 | 8.25 | 1.00 | 33.5 | 21.5 | 24.75 | 39 |




## Accessories

| CAT. NO. | DESCRIPTION | STD. WT. (LBS.) |
|---|---|---|
| ESMFK-1 | "CleverMount" Mounting Feet (4 Feet and Fasteners) | 5 |



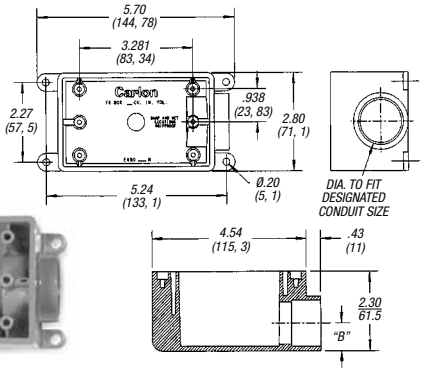
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# Single-Gang FS Device Boxes

LR31146 Where noted by

LISTED E11461

## Type FSE

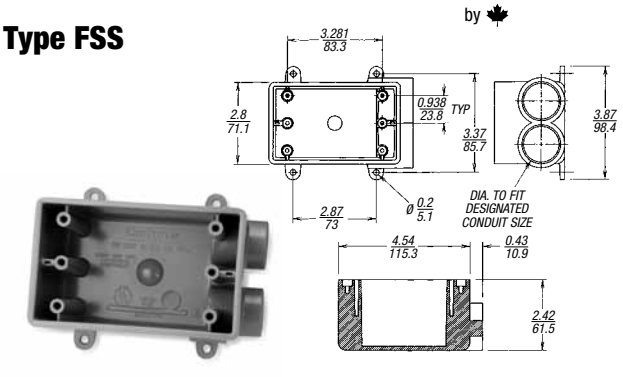



- For dead-end terminations
- All sizes take standard covers and accessories or devices
- Integral mounting feet provide easy mounting

| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|---|---|---|---|
| E980DFN | ½ | 19 | 10 |
| C980DFN-CTN | ½ | 18 | 12 |
| E980EFN | ¾ | 19 | 10 |
| C980EFN-CTN | ¾ | 18 | 12 |
| E980FFN | 1 | 19 | 18 |
| C980FFN-CTN | 1 | 18 | 8 |
| E980FFN-CAR | 1 | 19 | 10 |

*Canada Only*

## Type FSS

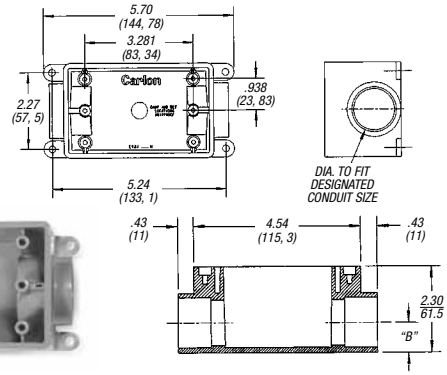



- For multiple dead-end circuit terminations or where additional support is required in stub-up applications
- All sizes take standard covers and accessories or devices
- Detachable mounting feet provide easy mounting

| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|---|---|---|---|
| E982DFN | ½ | 19 | 10 |
| C982DFN-CTN | ½ | 18 | 12 |
| E982EFN | ¾ | 19 | 10 |
| C982EFN-CTN | ¾ | 18 | 12 |
| E982FFN | 1 | 19 | 10 |
| C982FFN-CTN | 1 | 18 | 8 |

*Canada Only*

## Type FSC

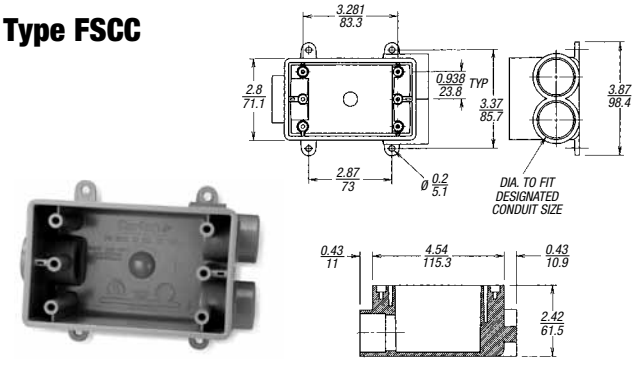



- For through terminations
- All sizes take standard covers and accessories or devices
- Detachable mounting feet provide easy mounting

| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|---|---|---|---|
| E981DFN | ½ | 19 | 15 |
| C981DFN-CTN | ½ | 18 | 12 |
| E981EFN | ¾ | 19 | 15 |
| C981EFN-CTN | ¾ | 18 | 12 |
| E981FFN | 1 | 19 | 18 |
| E981FFN-CAR | 1 | 19 | 10 |
| C981FFN-CTN | 1 | 18 | 8 |

*Canada Only*

## Type FSCC




- For multiple through-circuit terminations or where additional support is required in stub-up applications
- All sizes take standard covers and accessories or devices
- Detachable mounting feet provide easy mounting

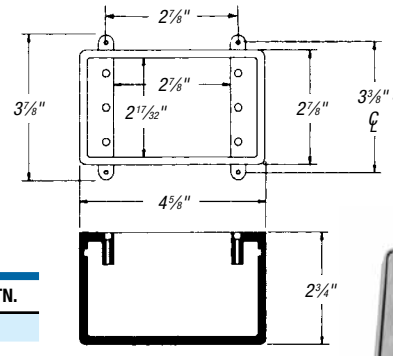
| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|---|---|---|---|
| E979DFN-CAR | ½ | 19 | 10 |
| C979DFN | ½ | 18 | 15 |
| E979EFN-CAR | ¾ | 19 | 10 |
| C979EFN | ¾ | 18 | 15 |
| E979FFN | 1 | 19 | 15 |
| C979FFN | 1 | 18 | 15 |

*Canada Only*

# Single-Gang FD Deep Device Boxes

## Type FD

- For terminations where hub requirements vary according to application — hubs easily made with flared wood bit or hole saw
- All sizes take standard covers and accessories or devices
- Integral mounting feet provide easy mounting



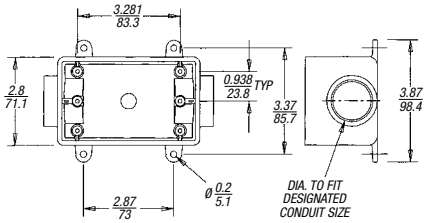


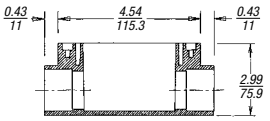

| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|---|---|---|---|
| **E9801** | N/A | 25 | 10 |
| **CE9801-CTN** | N/A | 25 | 10 |
| **C9801-347** | N/A | 25 | 10 |

*Canada Only*

## Type FDC

- For through terminations where large devices or additional wiring capacityis required
- All sizes take standard covers and accessories or devices
- Integral mounting feet provide easy mounting




LR31146
Where noted by

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E11461

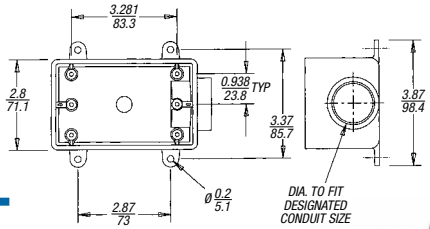


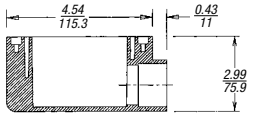
| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|---|---|---|---|
| **E9811DN** | ½ | 25 | 10 |
| **C9811DN** | ½ | 25 | 10 |
| **E9811EN** | ¾ | 25 | 10 |
| **C9811EN** | ¾ | 25 | 10 |
| **E9811FN** | 1 | 25 | 10 |
| **C9811FN** | 1 | 25 | 10 |

*Canada Only*

## Type FDE

- For dead-end terminations where large devices or additional wiring capacity is required
- All sizes take standard covers and accessories or devices
- Integral mounting feet provide easy mounting






| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|---|---|---|---|
| **E9801DN** | ½ | 25 | 10 |
| **C9801DN** | ½ | 25 | 10 |
| **E9801EN** | ¾ | 25 | 10 |
| **C9801EN** | ¾ | 25 | 10 |
| **E9801FN** | 1 | 25 | 10 |
| **C9801FN** | 1 | 25 | 10 |

*Canada Only*



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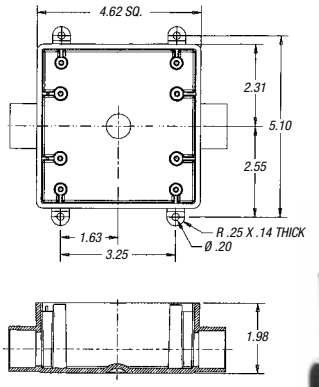
# Two-Gang FS Device Boxes

## Type 2FSC

- For through terminations where two devices or additional wiring capacity is required
- All sizes take standard covers and accessories or devices
- Integral mounting feet provide easy mounting

| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|---|---|---|---|
| E9812D | ½ | 32 | 10 |
| CE9812D-CTN | ½ | 32 | 10 |
| E9812E | ¾ | 32 | 10 |
| CE9812E-CTN | ¾ | 32 | 10 |
| E9812F | 1 | 32 | 10 |
| C9812F | 1 | 32 | 10 |

*Canada Only*



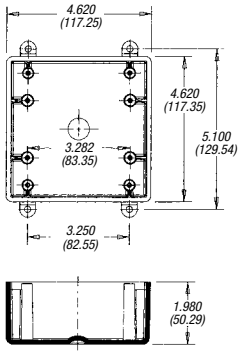



## Type FS

- For terminations where hub requirements vary according to application — hubs easily made with flared wood bit or hole saw
- All sizes take standard covers and accessories or devices
- Integral mounting feet provide easy mounting

| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|---|---|---|---|
| E9802 | N/A | 32 | 10 |
| CE9802 | N/A | 32 | 10 |

*Canada Only*



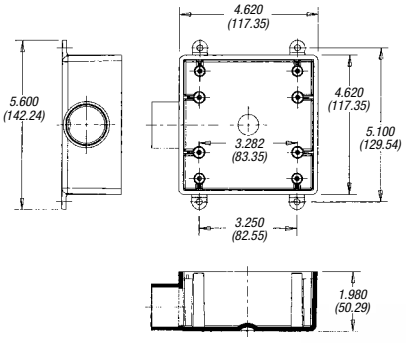



## Type 2FSE

- For dead-end terminations where two devices or additional wiring capacity is required
- All sizes take standard covers and accessories or devices
- Integral mounting feet provide easy mounting

| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|---|---|---|---|
| E9802D | ½ | 32 | 10 |
| CE9802D-CTN | ½ | 32 | 10 |
| E9802E | ¾ | 32 | 10 |
| CE9802E-CTN | ¾ | 32 | 10 |
| E9802F | 1 | 32 | 10 |
| C9802F | 1 | 32 | 1 |

*Canada Only*






# Blank Covers for Device Boxes



## Single-Gang

- Fits Carlon® single-gang FS boxes
- Supplied with stainless steel mounting screws and gasket

| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E980CN-CAR | Gray | 12 | 1.60 |
| E980CM-CAR | White | 12 | 1.60 |



## Two-Gang

- Fits Carlon® two-gang FS boxes, other non-metallic and metallic FS boxes
- Supplied with stainless steel mounting screws and gasket

| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| E9802CN-CAR | Gray | 10 | 2.17 |



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# Circuit Safe® NEMA Enclosures



Circuit Safe® NEMA Enclosures are the flagship product of the Carlon® Enclosure offering. Molded in tough, durable polycarbonate resin, these enclosures lead the market in terms of design, durability, aesthetics and economy of use.

Ranging in size from 6" x 4" x 4" to 16" x 14" x 6", all Circuit Safe® NEMA products are UL 50 Listed and meet Types 4X, 12 and 13. These enclosures utilize recognized materials that carry an ultraviolet rating of F1, ensuring a very long, stable service life when installed outdoors. In addition, the use of polycarbonate material means that these enclosures enjoy an extremely high impact-resistance rating…almost three times more impact resistant than traditional fiberglass enclosures.

Installation of components is made easy, too, with the Panel Adjuster Kits and Swing-Out Panel Kits. Subpanels can be stacked or suspended at any depth within the enclosure, maximizing the space available for component mounting. Machining polycarbonate is also safe and easy. There are no splintering problems or airborne fibers as is typical when machining traditional fiberglass products.

Lighter, stronger, easier, safer to use and better looking. Check out Carlon's Circuit Safe® NEMA line today.

**Features and Benefits:**

- 100% non-metallic construction, including hinges
- Sturdy SS latches install without penetration of the enclosure base
- Clear covers are available, which eliminate the need for window kits
- All cover screws are captive
- Panel suspension system enables the installation of panels at any depth, including stacking of multiple panels
- Swing panels are also available
- Available in junction boxes, external hinge and hidden hinge versions
- Subpanels are available in steel or PVC
- Non-metallic mounting rails for easy installation
- Less than half the weight of metal enclosures, 25% lighter than fiberglass, easier to handle and less expensive to ship
- Full modification services are available

**Applications:**

- Any outdoor applications, especially where sunlight resistance is an issue
- Applications where water is present
- Applications where damage during shipment, installation or use is an issue
- Any applications where it is necessary to view internal components through a clear cover
- Applications where weight is an issue
- Applications where the ability to pass wireless signals is needed
- Applications where rust and corrosion are an issue

**Examples:**

- Septic and pump controls
- Wireless system component protection
- Marina and sea-side installations
- Controls that require though-cover viewing of readouts and dials
- Machine controls/process controls
- Food and beverage process controls
- Security system controls

**Standards:**

- Meets or exceeds NEMA Types 4X, 12 and 13
- Listed per UL 50 as Types 4X, 12 and 13

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## NEMA Enclosure Styles

Circuit Safe® NEMA Enclosures are available in three different cover options and a wide range of sizes. From our screw-cover style enclosures to our hidden-hinge cover style enclosures to our external-hinge cover style enclosures, Carlon® has a Circuit Safe® NEMA enclosure to meet your application-specific needs.

**Styles**

- Screw Cover
- External Hinge
- Hidden Hinge

**Cover Color Options**

- Opaque
- Clear

**Material**

- Polycarbonate (Bases and Lids)



*Screw Cover*



*External-Hinge Cover*



*Hidden-Hinge Cover*

## Circuit Safe® NEMA Enclosures

# Meets NEMA 1, 2, 3, 3S, 3X, 3SX, 4, 4X, 12.

# Screw-On Covers

c UL us LISTED
E88685



*Opaque Cover*



*Clear Cover*

### Enclosure Kits

| OPAQUE COVER* CAT. NO. | CLEAR COVER* CAT. NO. | SIZE (IN.) | BACK PANELS** STEEL | BACK PANELS** PVC | STD. CTN. | STD. WT. (LBS.) OPAQUE/CLEAR |
|---|---|---|---|---|---|---|
| **NS644** | **NV644** | 6 x 4 x 4 | **JP64** | **JP64P** | 1 | Opa 1.8/Clr 1.9 |
| **NS664** | **NV664** | 6 x 6 x 4 | **JP66** | **JP66P** | 1 | Opa 2.4/Clr 2.4 |
| **NS864** | **NV864** | 8 x 6 x 4 | **JP86** | **JP86P** | 1 | Opa 2.9/Clr 2.8 |
| **NS884** | **NV884** | 8 x 8 x 4 | **JP88** | **JP88P** | 1 | Opa 3.2/Clr 3.3 |
| **NS1084** | **NV1084** | 10 x 8 x 4 | **JP108** | **JP108P** | 1 | Opa 4.0/Clr 3.9 |
| **NS1086** | **NV1086** | 10 x 8 x 6 | **JP108** | **JP108P** | 1 | Opa 4.6/Clr 4.5 |
| **NS10106** | **NV10106** | 10 x 10 x 6 | **JP1010** | **JP1010P** | 1 | Opa 5.3/Clr 4.9 |
| **NS12106** | **NV12106** | 12 x 10 x 6 | **JP1210** | **JP1210P** | 1 | Opa 6.1/Clr 5.2 |
| **NS12126** | **NV12126** | 12 x 12 x 6 | **JP1212** | **JP1212P** | 1 | Opa 6.8/Clr 6.1 |
| **NS14126** | **NV14126** | 14 x 12 x 6 | **JP1412** | **JP1412P** | 1 | Opa 7.4/Clr 7.0 |
| **NS16146** | **NV16146** | 16 x 14 x 6 | **JP1614** | **JP1614P** | 1 | Opa 9.2/Clr 8.1 |

** Include body, lid and mounting rail kit.*

*** Order back panels separately.*

### Individual Components

| ENCLOSURE BASE* CAT. NO. | ENCLOSURE SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) | ENCLOSURE LIDS OPAQUE LIDS | ENCLOSURE LIDS CLEAR LIDS | STD. CTN. | STD. WT. (LBS.) | BACK PANELS** STEEL CAT. NO. | BACK PANELS** PVC CAT. NO. | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|---|
| **NP644B** | 6 x 4 x 4 | 18 | 21 | **NS64L** | **NV64L** | 16 | Opa 6.4/Clr 5.7 | **JP64** | **JP64P** | 1 |
| **NP664B** | 6 x 6 x 4 | 12 | 17 | **NS66L** | **NV66L** | 12 | Opa 6.2/Clr 5.7 | **JP66** | **JP66P** | 1 |
| **NP864B** | 8 x 6 x 4 | 12 | 18 | **NS86L** | **NV86L** | 9 | Opa 6/Clr 4.4 | **JP86** | **JP86P** | 1 |
| **NP884B** | 8 x 8 x 4 | 14 | 28 | **NS88L** | **NV88L** | 18 | Opa 14/Clr 11.2 | **JP88** | **JP88P** | 1 |
| **NP1084B** | 10 x 8 x 4 | 12 | 26 | **NS108L** | **NV108L** | 12 | Opa 13/Clr 11 | **JP108** | **JP108P** | 1 |
| **NP1086B** | 10 x 8 x 6 | 8 | 23 | **NS108L** | **NV108L** | 12 | Opa 13/Clr 11 | **JP108** | **JP108P** | 1 |
| **NP1010B** | 10 x 10 x 6 | 6 | 20 | **NS1010L** | **NV1010L** | 11 | Opa 14/Clr 12 | **JP1010** | **JP1010P** | 1 |
| **NP1210B** | 12 x 10 x 6 | 6 | 23 | **NS1210L** | **NV1210L** | 12 | Opa 15/Clr 15 | **JP1210** | **JP1210P** | 1 |
| **NP1212B** | 12 x 12 x 6 | 5 | 22 | **NS1212L** | **NV1212L** | 10 | Opa 15/Clr 14 | **JP1212** | **JP1212P** | 1 |
| **NP1412B** | 14 x 12 x 6 | 5 | 24 | **NS1412L** | **NV1412L** | 5 | Opa 9/Clr 9 | **JP1412** | **JP1412P** | 1 |
| **NP1614B** | 16 x 14 x 6 | 4 | 31 | **NS1614L** | **NV1614L** | 5 | Opa 11/Clr 11 | **JP1614** | **JP1614P** | 1 |

** Mounting rails are not included. See "Mounting Rails" on* ***page A-307****.*

*** Order back panels separately.*



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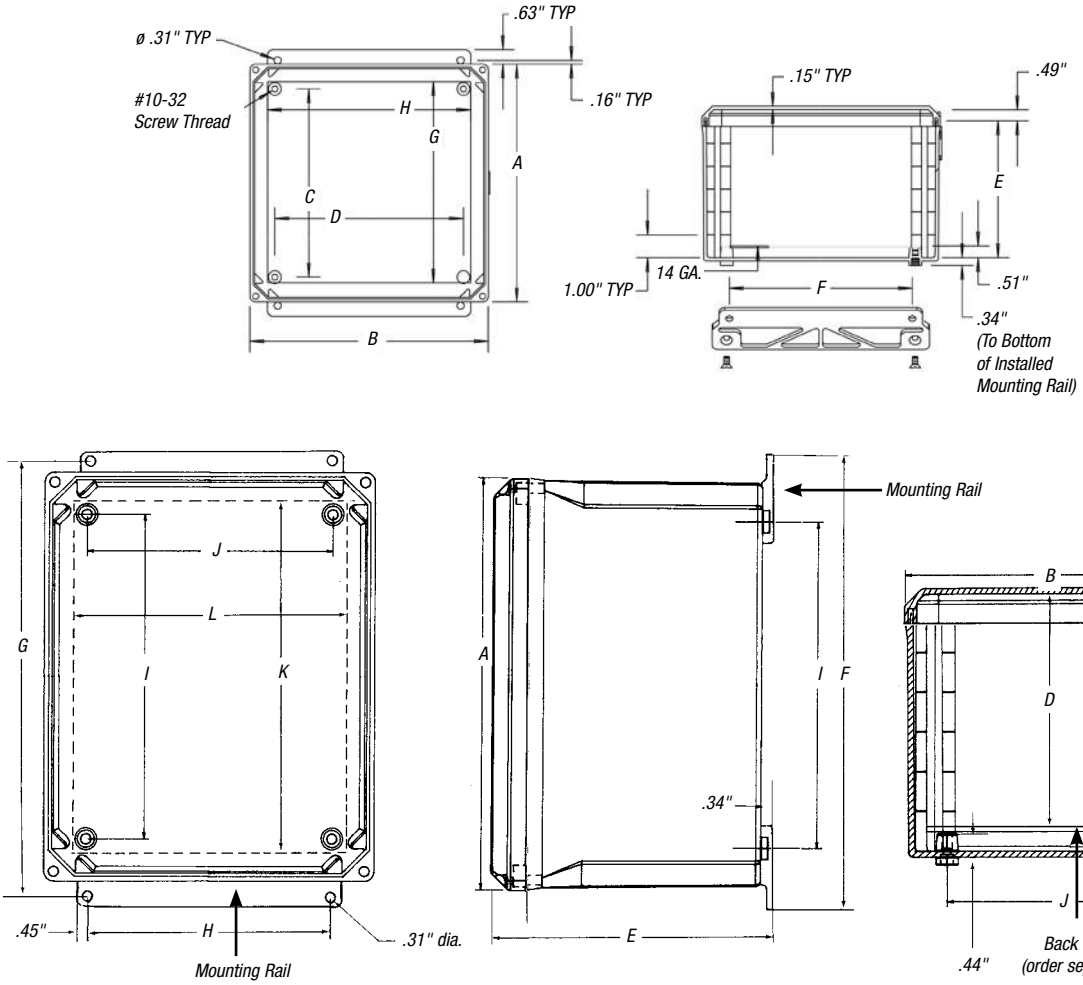
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# Circuit Safe® NEMA Enclosures






## Individual Components *(continued)*

| ENCLOSURE WITH | | ENCLOSURE SIZE (IN.) | | | | | | ENCLOSURE MOUNTING HOLE SPACING | | PANEL MOUNTING HOLE SPACING | | BACK PANEL SIZE | | BACK PANEL** CAT. NO. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CLEAR LID CAT. NO.* | OPAQUE LID CAT. NO.* | A | B | C | D | E | F | G | H | I | J | K | L | STEEL | PVC |
| NV644 | NS644 | 6.40 | 4.40 | 4.49 | 3.98 | 5.13 | 7.69 | 6.75 | 2.00 | 4.29 | 2.28 | 4.88 | 2.88 | JP64 | JP64P |
| NV664 | NS664 | 6.40 | 6.40 | 4.49 | 3.98 | 5.13 | 7.69 | 6.75 | 4.00 | 4.28 | 4.28 | 4.88 | 4.88 | JP66 | JP66P |
| NV864 | NS864 | 8.40 | 6.40 | 4.49 | 3.98 | 5.13 | 9.69 | 8.75 | 4.00 | 6.27 | 4.26 | 6.75 | 4.88 | JP86 | JP86P |
| NV884 | NS884 | 8.40 | 8.40 | 4.49 | 3.98 | 5.13 | 9.69 | 8.75 | 6.00 | 6.30 | 6.30 | 6.75 | 6.88 | JP88 | JP88P |
| NV1084 | NS1084 | 10.40 | 8.40 | 4.49 | 3.98 | 5.13 | 11.69 | 10.75 | 6.00 | 8.34 | 6.30 | 8.75 | 6.88 | JP108 | JP108P |
| NV1086 | NS1086 | 10.40 | 8.40 | 6.49 | 5.98 | 7.13 | 11.69 | 10.75 | 6.00 | 8.34 | 6.30 | 8.75 | 6.88 | JP108 | JP108P |
| NV10106 | NS10106 | 10.40 | 10.40 | 6.49 | 5.98 | 7.13 | 11.69 | 10.75 | 8.00 | 8.29 | 8.29 | 8.75 | 8.88 | JP1010 | JP1010P |
| NV12106 | NS12106 | 12.40 | 10.40 | 6.49 | 5.98 | 7.13 | 13.69 | 12.75 | 8.00 | 10.30 | 8.28 | 10.75 | 8.88 | JP1210 | JP1210P |
| NV12126 | NS12126 | 12.40 | 12.40 | 6.49 | 5.98 | 7.13 | 13.69 | 12.75 | 10.00 | 10.24 | 10.24 | 10.75 | 10.88 | JP1212 | JP1212P |
| NV14126 | NS14126 | 14.40 | 12.40 | 6.49 | 5.98 | 7.13 | 15.69 | 14.75 | 10.00 | 12.26 | 10.24 | 12.75 | 10.88 | JP1412 | JP1412P |
| NV16146 | NS16146 | 16.40 | 14.40 | 6.49 | 5.98 | 7.13 | 17.69 | 16.75 | 12.00 | 14.26 | 12.26 | 14.75 | 12.88 | JP1614 | JP1612P |

** Include body, lid and mounting rail kit.*

*** Order back panels separately (10/32 – ⅜ Back Panel screws not supplied).*

## Circuit Safe® NEMA Enclosures

# Meets NEMA 1, 2, 3, 3S, 3X, 3SX, 4, 4X, 12.

c UL us LISTED E88685

# Hidden-Hinge Covers



*Opaque Cover*



*Clear Cover*

### Enclosure Kits

| OPAQUE COVER* CAT. NO. | CLEAR COVER* CAT. NO. | SIZE (IN.) | BACK PANELS** STEEL | BACK PANELS** PVC | STD. CTN. | STD. WT. (LBS.) OPAQUE/CLEAR |
|---|---|---|---|---|---|---|
| NH644 | NI644 | 6 x 4 x 5 † | JP64 | JP64P | 1 | Opa 2.2/Clr 2.8 |
| NH664 | NI664 | 6 x 6 x 5 | JP66 | JP66P | 1 | Opa 2.7/Clr 3.2 |
| NH864 | NI864 | 8 x 6 x 5 | JP86 | JP86P | 1 | Opa 3.3/Clr 3.8 |
| NH884 | NI884 | 8 x 8 x 5 | JP88 | JP88P | 1 | Opa 3.8/Clr 3.8 |
| NH1084 | NI1084 | 10 x 8 x 5 | JP108 | JP108P | 1 | Opa 4.0/Clr 4.5 |
| NH1086 | NI1086 | 10 x 8 x 7 | JP108 | JP108P | 1 | Opa 5.2/Clr 5.1 |
| NH10106 | NI10106 | 10 x 10 x 7 | JP1010 | JP1010P | 1 | Opa 5.7/Clr 5.8 |
| NH12106 | NI12106 | 12 x 10 x 7 | JP1210 | JP1210P | 1 | Opa 6.9/Clr 6.1 |
| NH12126 | NI12126 | 12 x 12 x 7 | JP1212 | JP1212P | 1 | Opa 7.7/Clr 7.2 |
| NH14126 | NI14126 | 14 x 12 x 7 | JP1412 | JP1412P | 1 | Opa 8.3/Clr 7.9 |
| NH16146 | NI16146 | 16 x 14 x 7 | JP1614 | JP1614P | 1 | Opa 10.1/Clr 9.6 |

** Include body, cover assembly and mounting rail kit.*

*** Order back panels separately.*

*† 6 x 4 x 5 size not available with quick-release latches.*

### Individual Components

| ENCLOSURE BASE* CAT. NO. | ENCLOSURE SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) | ENCLOSURE LIDS OPAQUE LIDS CAT. NO. | ENCLOSURE LIDS CLEAR LIDS CAT. NO. | STD. CTN. | STD. WT. (LBS.) | COLLARS CAT. NO. | STD. CTN. | STD. WT. (LBS.) | BACK PANELS** STEEL CAT. NO. | BACK PANELS** PVC CAT. NO. | STD. CTN. | LATCHES STEEL LATCH CAT. NO. | LATCHES NON-METALLIC LATCH CAT. NO. | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NP644B | 6 x 4 x 5 † | 18 | 21 | NH64L | NI64L | 16 | Opa 6.8/Clr 6.3 | NH64C | 16 | 6 | JP64 | JP64P | 1 | SSLS | NPLIS | 25 |
| NP664B | 6 x 4 x 5 | 12 | 17 | NH66L | NI66L | 12 | Opa 6.8/Clr 6.3 | NH66C | 12 | 5 | JP66 | JP66P | 1 | SSLS | NPLIS | 25 |
| NP864B | 8 x 6 x 5 | 12 | 18 | NH86L | NI86L | 9 | Opa 6.3/Clr 5.7 | NH86C | 9 | 4 | JP86 | JP86P | 1 | SSLS | NPLIS | 25 |
| NP884B | 8 x 8 x 5 | 14 | 28 | NH88L | NI88L | 18 | Opa 16/Clr 15 | NH88C | 9 | 3.6 | JP88 | JP88P | 1 | SSLS | NPLIS | 25 |
| NP1084B | 10 x 8 x 5 | 12 | 26 | NH108L | NI108L | 12 | Opa 13/Clr 12 | NH108C | 12 | 7.8 | JP108 | JP108P | 1 | SSLS | NPLIS | 25 |
| NP1086B | 10 x 8 x 7 | 8 | 23 | NH108L | NI108L | 12 | Opa 13/Clr 12 | NH108C | 12 | 7.8 | JP108 | JP108P | 1 | SSLS | NPLIS | 25 |
| NP1010B | 10 x 10 x 7 | 6 | 20 | NH1010L | NI1010L | 11 | Opa 14/Clr 13 | NH1010C | 11 | 7.5 | JP1010 | JP1010P | 1 | SSLS | NPLIS | 25 |
| NP1210B | 12 x 10 x 7 ‡ | 6 | 23 | NH1210L | NI1210L | 12 | Opa 17/Clr 6 | NH1210C | 12 | 8 | JP1210 | JP1210P | 1 | SSLS | NPLIS | 25 |
| NP1212B | 12 x 12 x 7 ‡ | 5 | 22 | NH1212L | NI1212L | 10 | Opa 17/Clr 16 | NH1212C | 12 | 7.7 | JP1212 | JP1212P | 1 | SSLS | NPLIS | 25 |
| NP1412B | 14 x 12 x 7 ‡ | 5 | 24 | NH1412L | NI1412L | 5 | Opa 10/Clr 10 | NH1412C | 5 | 4.7 | JP1412 | JP1412P | 1 | SSLS | NPLIS | 25 |
| NP1614B | 16 x 14 x 7 ‡ | 4 | 31 | NH1614L | NI1614L | 5 | Opa 13/Clr 12 | NH1614C | 5 | 5.6 | JP1614 | JP1614P | 1 | SSLS | NPLIS | 25 |

** Mounting rails are not included. See "Mounting Rails" listed on* ***page A-307.***

*** Order back panels separately.*

*† 6 x 4 x 5 enclosures are not available with quick-release latches.*

*‡ Sizes 12 x 10 and larger require two (2) latches per enclosure.*



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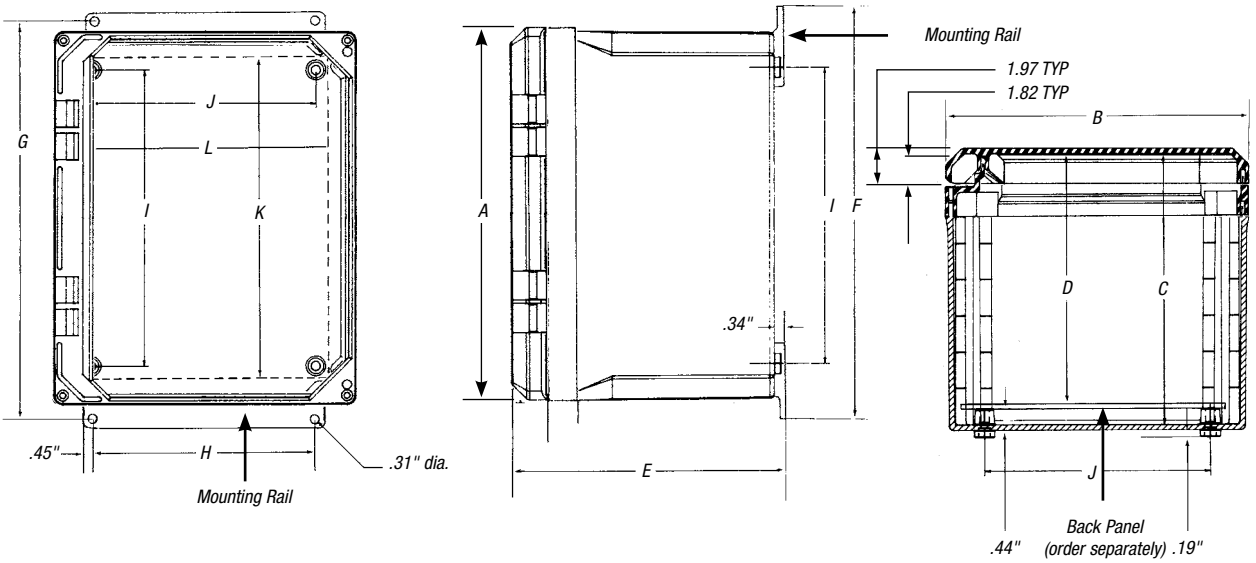
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# Circuit Safe® NEMA Enclosures






## Individual Components *(continued)*

| ENCLOSURE WITH | | ENCLOSURE SIZE (IN.) | | | | | | ENCLOSURE MOUNTING HOLE SPACING | | PANEL MOUNTING HOLE SPACING | | BACK PANEL SIZE | | BACK PANEL** CAT. NO. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OPAQUE LID CAT. NO.* | CLEAR LID CAT. NO.* | A | B | C | D | E | F | G | H | I | J | K | L | STEEL | PVC |
| NH644 | NI644 | 6.40 | 4.40 | 5.30 | 4.79 | 5.94 | 7.69 | 6.75 | 2.00 | 4.29 | 2.28 | 4.88 | 2.88 | JP64 | JP64P |
| NH664 | NI664 | 6.40 | 6.40 | 5.30 | 4.79 | 5.94 | 7.69 | 6.75 | 4.00 | 4.28 | 4.28 | 4.88 | 4.88 | JP66 | JP66P |
| NH864 | NI864 | 8.40 | 6.40 | 5.30 | 4.79 | 5.94 | 9.69 | 8.75 | 4.00 | 6.27 | 4.26 | 6.75 | 4.88 | JP86 | JP86P |
| NH884 | NI884 | 8.40 | 8.40 | 5.30 | 4.79 | 5.94 | 9.69 | 8.75 | 6.00 | 6.30 | 6.30 | 6.75 | 6.88 | JP88 | JP88P |
| NH1084 | NI1084 | 10.40 | 8.40 | 5.30 | 4.79 | 5.94 | 11.69 | 10.75 | 6.00 | 8.34 | 6.30 | 8.75 | 6.88 | JP108 | JP108P |
| NH1086 | NI1086 | 10.40 | 8.40 | 7.30 | 6.79 | 7.94 | 11.69 | 10.75 | 6.00 | 8.34 | 6.30 | 8.75 | 6.88 | JP108 | JP108P |
| NH10106 | NI10106 | 10.40 | 10.40 | 7.30 | 6.79 | 7.94 | 11.59 | 10.75 | 8.00 | 8.29 | 8.29 | 8.75 | 8.88 | JP1010 | JP1010P |
| NH12106 | NI12106 | 12.40 | 10.40 | 7.30 | 6.79 | 7.94 | 13.69 | 12.75 | 8.00 | 10.30 | 8.28 | 10.75 | 8.88 | JP1210 | JP1210P |
| NH12126 | NI12126 | 12.40 | 12.40 | 7.30 | 6.79 | 7.94 | 13.69 | 12.75 | 10.00 | 10.24 | 10.24 | 10.75 | 10.88 | JP1212 | JP1212P |
| NH14126 | NI14126 | 14.40 | 12.40 | 7.30 | 6.79 | 7.94 | 15.69 | 14.75 | 10.00 | 12.26 | 10.24 | 12.75 | 10.88 | JP1412 | JP1412P |
| NH16146 | NI16146 | 16.40 | 14.40 | 7.30 | 6.79 | 7.94 | 17.69 | 16.75 | 12.00 | 14.26 | 12.26 | 14.75 | 12.88 | JP1614 | JP1612P |

** Include body, lid and mounting rail kit.*

*** Order back panels separately (10/32 – ⅜ Back Panel screws not supplied).*

## Circuit Safe® NEMA Enclosures

# Meets NEMA 1, 2, 3, 3S, 3X, 3SX, 4, 4X, 12.

c UL us LISTED E88685

# External-Hinge Covers



*Opaque Cover*



*Clear Cover*

### Enclosure Kits

| OPAQUE COVER* CAT. NO. | CLEAR COVER* CAT. NO. | BACK PANELS** STEEL | BACK PANELS** PVC | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) OPAQUE/CLEAR |
|---|---|---|---|---|---|---|
| NJ664 | NC664 | JP66 | JP66P | 6 x 6 x 4 | 1 | Opa 2.4/Clr 2.4 |
| NJ864 | NC864 | JP86 | JP86P | 8 x 6 x 4 | 1 | Opa 2.9/Clr 2.9 |
| NJ884 | NC884 | JP88 | JP88P | 8 x 8 x 4 | 1 | Opa 3.3/Clr 3.3 |
| NJ1084 | NC1084 | JP108 | JP108P | 10 x 8 x 4 | 1 | Opa 4/Clr 4 |
| NJ1086 | NC1086 | JP108 | JP108P | 10 x 8 x 6 | 1 | Opa 4.6/Clr 4.7 |
| NJ10106 | NC10106 | JP1010 | JP1010P | 10 x 10 x 6 | 1 | Opa 5.6/Clr 5.3 |
| NJ12106 | NC12106 | JP1210 | JP1210P | 12 x 10 x 6 | 1 | Opa 6.3/Clr 5.8 |
| NJ12126 | NC12126 | JP1212 | JP1212P | 12 x 12 x 6 | 1 | Opa 6.9/Clr 6.6 |
| NJ14126 | NC14126 | JP1412 | JP1412P | 14 x 12 x 6 | 1 | Opa 7.7/Clr 7 |
| NJ16146 | NC16146 | JP1614 | JP1614P | 16 x 14 x 6 | 1 | Opa 8.2/Clr 8 |

** Include body, lid and mounting rail kit.*

*** Order back panels separately.*

### Individual Components

| ENCLOSURE BASE* | | | | ENCLOSURE LIDS | | | | BACK PANELS** | | | LATCHES | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT. NO. | ENCLOSURE SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) | OPAQUE LIDS CAT. NO. | CLEAR LIDS CAT. NO. | STD. CTN. | STD. WT. (LBS.) | STEEL CAT. NO. | PVC CAT. NO. | STD. CTN. | STEEL LATCH CAT. NO. | NON-METALLIC LATCH CAT. NO. | STD. CTN. |
| NL664B | 6 x 6 x 4 | 12 | 18 | NJ66L | NC66L | 12 | Opa 5.0/Clr 5.9 | JP66 | JP66P | 1 | SSLS | NPLIS | 25 |
| NL864B | 8 x 6 x 4 | 8 | 14 | NJ86L | NC86L | 9 | Opa 6/Clr 5.3 | JP86 | JP86P | 1 | SSLS | NPLIS | 25 |
| NL884B | 8 x 8 x 4 | 14 | 28 | NJ88L | NC88L | 18 | Opa 15/Clr 13.5 | JP88 | JP88P | 1 | SSLS | NPLIS | 25 |
| NL1084B | 10 x 8 x 4 | 12 | 32 | NJ108L | NC108L | 12 | Opa 13/Clr 11.7 | JP108 | JP108P | 1 | SSLS | NPLIS | 25 |
| NL1086B | 10 x 8 x 6 | 8 | 15 | NJ108L | NC108L | 12 | Opa 13/Clr 11.7 | JP108 | JP108P | 1 | SSLS | NPLIS | 25 |
| NL1010B | 10 x 10 x 6 | 6 | 20 | NJ1010L | NC1010L | 11 | Opa 14/Clr 13 | JP1010 | JP1010P | 1 | SSLS | NPLIS | 25 |
| NL1210B | 12 x 10 x 6 ‡ | 6 | 24 | NJ1210L | NC1210L | 12 | Opa 14/Clr 15 | JP1210 | JP1210P | 1 | SSLS | NPLIS | 25 |
| NL1212B | 12 x 12 x 6 ‡ | 5 | 21.8 | NJ1212L | NC1212L | 10 | Opa 16/Clr 14 | JP1212 | JP1212P | 1 | SSLS | NPLIS | 25 |
| NL1412B | 14 x 12 x 6 ‡ | 4 | 19 | NJ1412L | NC1412L | 5 | Opa 10/Clr 9 | JP1412 | JP1412P | 1 | SSLS | NPLIS | 25 |
| NL1614B | 16 x 14 x 6 ‡ | 4 | 31 | NJ1614L | NC1614L | 5 | Opa 13.5/Clr 12 | JP1614 | JP1614P | 1 | SSLS | NPLIS | 25 |

** Mounting rails are not included. See Mounting Rails on* ***page A-307.***

*** Order back panels separately.*

*‡ Sizes 12 x 10 and larger require two (2) latches per enclosure.*



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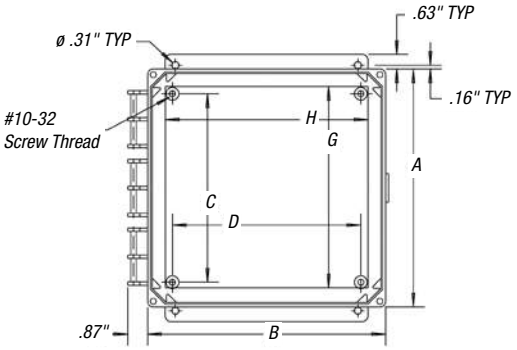
**United States**
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800.816.7809
Fax: 901.252.1354

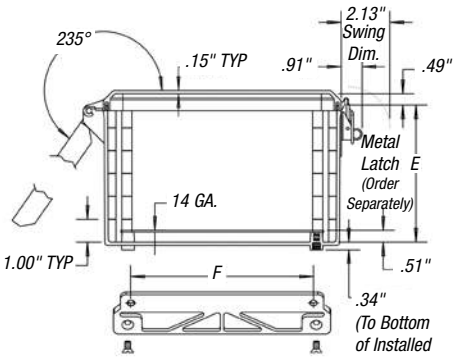
**Technical Services**
Tel: 888.862.3289

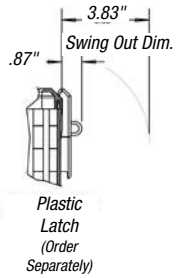
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# Circuit Safe® NEMA Enclosures






## Individual Components *(continued)*

| ENCLOSURE WITH | | ENCLOSURE SIZE (IN.) | | | | | | ENCLOSURE MOUNTING HOLE SPACING | | PANEL MOUNTING HOLE SPACING | | BACK PANEL SIZE | | BACK PANEL** CAT. NO. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CLEAR LID CAT. NO.* | OPAQUE LID CAT. NO.* | A | B | C | D | E | F | G | H | I | J | K | L | STEEL | PVC |
| NC644 | NJ644 | 6.40 | 4.40 | 4.49 | 3.98 | 5.13 | 7.69 | 6.75 | 2.00 | 4.29 | 2.28 | 4.88 | 2.88 | JP64 | JP64P |
| NC664 | NJ664 | 6.40 | 6.40 | 4.49 | 3.98 | 5.13 | 7.69 | 6.75 | 4.00 | 4.28 | 4.28 | 4.88 | 4.88 | JP66 | JP66P |
| NC864 | NJ864 | 8.40 | 6.40 | 4.49 | 3.98 | 5.13 | 9.69 | 8.75 | 4.00 | 6.27 | 4.26 | 6.75 | 4.88 | JP86 | JP86P |
| NC884 | NJ884 | 8.40 | 8.40 | 4.49 | 3.98 | 5.13 | 9.69 | 8.75 | 6.00 | 6.30 | 6.30 | 6.75 | 6.88 | JP88 | JP88P |
| NC1084 | NJ1084 | 10.40 | 8.40 | 4.49 | 3.98 | 5.13 | 11.69 | 10.75 | 6.00 | 8.34 | 6.30 | 8.75 | 6.88 | JP108 | JP108P |
| NC1086 | NJ1086 | 10.40 | 8.40 | 6.49 | 5.98 | 7.13 | 11.69 | 10.75 | 6.00 | 8.34 | 6.30 | 8.75 | 6.88 | JP108 | JP108P |
| NC10106 | NJ10106 | 10.40 | 10.40 | 6.49 | 5.98 | 7.13 | 11.69 | 10.75 | 8.00 | 8.29 | 8.29 | 8.75 | 8.88 | JP1010 | JP1010P |
| NC12106 | NJ12106 | 12.40 | 10.40 | 6.49 | 5.98 | 7.13 | 13.69 | 12.75 | 8.00 | 10.30 | 8.28 | 10.75 | 8.88 | JP1210 | JP1210P |
| NC12126 | NJ12126 | 12.40 | 12.40 | 6.49 | 5.98 | 7.13 | 13.69 | 12.75 | 10.00 | 10.24 | 10.24 | 10.75 | 10.88 | JP1212 | JP1212P |
| NC14126 | NJ14126 | 14.40 | 12.40 | 6.49 | 5.98 | 7.13 | 15.69 | 14.75 | 10.00 | 12.26 | 10.24 | 12.75 | 10.88 | JP1412 | JP1412P |
| NC16146 | NJ16146 | 16.40 | 14.40 | 6.49 | 5.98 | 7.13 | 17.69 | 16.75 | 12.00 | 14.26 | 12.26 | 14.75 | 12.88 | JP1614 | JP1614P |

** Include body, lid and mounting rail kit.*

*** Order back panels separately (10/32 – ⅜ Back Panel screws not supplied).*

# Quick Reference

## Screw-On Cover Styles

| ENCLOSURE KITS (NO PANEL OR LATCHES) | | INDIVIDUAL COMPONENTS | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | BACK PANELS | |
| OPAQUE LID | CLEAR LID | BODY | LID | COLLAR | MTG. RAILS | STEEL | PVC |
| NS644 | | NP644B | NS64L | N/A | NMK4V | JP64 | JP64P |
| | NV644 | NP644B | NV64L | N/A | NMK4V | JP64 | JP64P |
| NS664 | | NP664B | NS66L | N/A | NMK6V | JP66 | JP66P |
| | NV664 | NP664B | NV66L | N/A | NMK6V | JP66 | JP66P |
| NS864 | | NP864B | NS86L | N/A | NMK6V | JP86 | JP86P |
| | NV864 | NP864B | NV86L | N/A | NMK6V | JP86 | JP86P |
| NS884 | | NP884B | NS88L | N/A | NMK8V | JP88 | JP88P |
| | NV884 | NP884B | NV88L | N/A | NMK8V | JP88 | JP88P |
| NS1084 | | NP1084B | NS108L | N/A | NMK8V | JP108 | JP108P |
| | NV1084 | NP1084B | NV108L | N/A | NMK8V | JP108 | JP108P |
| NS1086 | | NP1086B | NS108L | N/A | NMK8V | JP108 | JP108P |
| | NV1086 | NP1086B | NV108L | N/A | NMK8V | JP108 | JP108P |
| NS10106 | | NP1010B | NS1010L | N/A | NMK10V | JP1010 | JP1010P |
| | NV10106 | NP1010B | NV1010L | N/A | NMK10V | JP1010 | JP1010P |
| NS12106 | | NP1210B | NS1210L | N/A | NMK10V | JP1210 | JP1210P |
| | NV12106 | NP1210B | NV1210L | N/A | NMK10V | JP1210 | JP1210P |
| NS12126 | | NP1212B | NS1212L | N/A | NMK12V | JP1212 | JP1212P |
| | NV12126 | NP1212B | NV1212L | N/A | NMK12V | JP1212 | JP1212P |
| NS14126 | | NP1412B | NS1412L | N/A | NMK12V | JP1412 | JP1412P |
| | NV14126 | NP1412B | NV1412L | N/A | NMK12V | JP1412 | JP1412P |
| NS16146 | | NP1614B | NS1614L | N/A | NMK14V | JP1614 | JP1614P |
| | NV16146 | NP1614B | NV1614L | N/A | NMK14V | JP1614 | JP1614P |

## External-Hinge Cover Styles

| ENCLOSURE KITS (NO PANEL OR LATCHES) | | INDIVIDUAL COMPONENTS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | BACK PANELS | | LATCHES (QTY. NEEDED) | |
| OPAQUE LID | CLEAR LID | BODY | LID | COLLAR | MTG. RAILS | STEEL | PVC | STEEL | NON-METALLIC |
| NJ644 | | NL644B | NJ64L | N/A | NMK4V | JP64 | JP64P | SSLS (1) | NPL1S (1) |
| | NC644 | NL644B | NC64L | N/A | NMK4V | JP64 | JP64P | SSLS (1) | NPL1S (1) |
| NJ664 | | NL664B | NJ66L | N/A | NMK6V | JP66 | JP66P | SSLS (1) | NPL1S (1) |
| | NC664 | NL664B | NC66L | N/A | NMK6V | JP66 | JP66P | SSLS (1) | NPL1S (1) |
| NJ864 | | NL864B | NJ86L | N/A | NMK6V | JP86 | JP86P | SSLS (1) | NPL1S (1) |
| | NC864 | NL864B | NC86L | N/A | NMK6V | JP86 | JP86P | SSLS (1) | NPL1S (1) |
| NJ884 | | NL884B | NJ88L | N/A | NMK8V | JP88 | JP88P | SSLS (1) | NPL1S (1) |
| | NC884 | NL884B | NC88L | N/A | NMK8V | JP88 | JP88P | SSLS (1) | NPL1S (1) |
| NJ1084 | | NL1084B | NJ108L | N/A | NMK8V | JP108 | JP108P | SSLS (1) | NPL1S (1) |
| | NC1084 | NL1084B | NC108L | N/A | NMK8V | JP108 | JP108P | SSLS (1) | NPL1S (1) |
| NJ1086 | | NL1086B | NJ108L | N/A | NMK8V | JP108 | JP108P | SSLS (1) | NPL1S (1) |
| | NC1086 | NL1086B | NC108L | N/A | NMK8V | JP108 | JP108P | SSLS (1) | NPL1S (1) |
| NJ10106 | | NL1010B | NJ1010L | N/A | NMK10V | JP1010 | JP1010P | SSLS (1) | NPL1S (1) |
| | NC10106 | NL1010B | NC1010L | N/A | NMK10V | JP1010 | JP1010P | SSLS (1) | NPL1S (1) |
| NJ12106 | | NL1210B | NJ1210L | N/A | NMK10V | JP1210 | JP1210P | SSLS (2) | NPL1S (2) |
| | NC12106 | NL1210B | NC1210L | N/A | NMK10V | JP1210 | JP1210P | SSLS (2) | NPL1S (2) |
| NJ12126 | | NL1212B | NJ1212L | N/A | NMK12V | JP1212 | JP1212P | SSLS (2) | NPL1S (2) |
| | NC12126 | NL1212B | NC1212L | N/A | NMK12V | JP1212 | JP1212P | SSLS (2) | NPL1S (2) |
| NJ14126 | | NL1412B | NJ1412L | N/A | NMK12V | JP1412 | JP1412P | SSLS (2) | NPL1S (2) |
| | NC14126 | NL1412B | NC1412L | N/A | NMK12V | JP1412 | JP1412P | SSLS (2) | NPL1S (2) |
| NJ16146 | | NL1614B | NJ1614L | N/A | NMK14V | JP1614 | JP1614P | SSLS (2) | NPL1S (2) |
| | NC16146 | NL1614B | NC1614L | N/A | NMK14V | JP1614 | JP1614P | SSLS (2) | NPL1S (2) |



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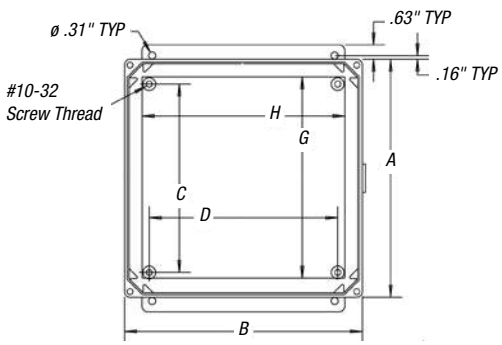
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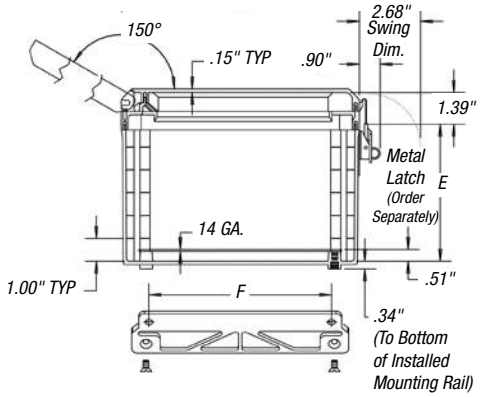
# Circuit Safe® NEMA Enclosures

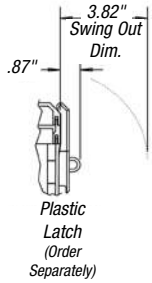


## Hidden-Hinge Cover Styles

| ENCLOSURE KITS (NO PANEL OR LATCHES) | | INDIVIDUAL COMPONENTS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | BACK PANELS | | LATCHES (QTY. NEEDED) | |
| OPAQUE LID | CLEAR LID | BODY | LID | COLLAR | MTG. RAILS | STEEL | PVC | STEEL | NON-METALLIC |
| NH644 | | NP644B | NH64L | NH64C | NMK4V | JP64 | JP64P | SSLL (1) | NPL1L (1) |
| | NI644 | NP644B | NI64L | NH64C | NMK4V | JP64 | JP64P | SSLL (1) | NPL1L (1) |
| NH664 | | NP664B | NH66L | NH66C | NMK6V | JP66 | JP66P | SSLL (1) | NPL1L (1) |
| | NI664 | NP664B | NI66L | NH66C | NMK6V | JP66 | JP66P | SSLL (1) | NPL1L (1) |
| NH864 | | NP864B | NH86L | NH86C | NMK6V | JP86 | JP86P | SSLL (1) | NPL1L (1) |
| | NI864 | NP864B | NI86L | NH86C | NMK6V | JP86 | JP86P | SSLL (1) | NPL1L (1) |
| NH884 | | NP884B | NH88L | NH88C | NMK8V | JP88 | JP88P | SSLL (1) | NPL1L (1) |
| | NI884 | NP884B | NI88L | NH88C | NMK8V | JP88 | JP88P | SSLL (1) | NPL1L (1) |
| NH1084 | | NP1084B | NH108L | NH108C | NMK8V | JP108 | JP108P | SSLL (1) | NPL1L (1) |
| | NI1084 | NP1084B | NI108L | NH108C | NMK8V | JP108 | JP108P | SSLL (1) | NPL1L (1) |
| NH1086 | | NP1086B | NH108L | NH108C | NMK8V | JP108 | JP108P | SSLL (1) | NPL1L (1) |
| | NI1086 | NP1086B | NI108L | NH108C | NMK8V | JP108 | JP108P | SSLL (1) | NPL1L (1) |
| NH10106 | | NP1010B | NH1010L | NH1010C | NMK10V | JP1010 | JP1010P | SSLL (1) | NPL1L (1) |
| | NI10106 | NP1010B | NI1010L | NH1010C | NMK10V | JP1010 | JP1010P | SSLL (1) | NPL1L (1) |
| NH12106 | | NP1210B | NH1210L | NH1210C | NMK10V | JP1210 | JP1210P | SSLL (2) | NPL1L (2) |
| | NI12106 | NP1210B | NI1210L | NH1210C | NMK10V | JP1210 | JP1210P | SSLL (2) | NPL1L (2) |
| NH12126 | | NP1212B | NH1212L | NH1212C | NMK12V | JP1212 | JP1212P | SSLL (2) | NPL1L (2) |
| | NI12126 | NP1212B | NI1212L | NH1212C | NMK12V | JP1212 | JP1212P | SSLL (2) | NPL1L (2) |
| NH14126 | | NP1412B | NH1412L | NH1412C | NMK12V | JP1412 | JP1412P | SSLL (2) | NPL1L (2) |
| | NI14126 | NP1412B | NI1412L | NH1412C | NMK12V | JP1412 | JP1412P | SSLL (2) | NPL1L (2) |
| NH16146 | | NP1614B | NH1614L | NH1614C | NMK14V | JP1614 | JP1614P | SSLL (2) | NPL1L (2) |
| | NI16146 | NP1614B | NI1614L | NH1614C | NMK14V | JP1614 | JP1614P | SSLL (2) | NPL1L (2) |



# Circuit Safe® JIC Enclosures

Manufactured from structural foam thermoplastic, Carlon® Circuit Safe® JIC enclosures provide high-impact strength to eliminate dents and deformations along with high dielectric strength, excellent weathering capabilities and excellent resistance to a wide range of corrosive agents, acids, alkalines and salts. These UL Approved and CSA Recognized enclosures also withstand wet and dirty environments, while their thick-wall construction make them a particularly good choice wherever condensation is a concern. Rated for use in Type 1, 3, 3S, 3X, 3SX, 4, 4X, 12 and 13 environments, Carlon® Circuit Safe® JIC enclosures are suited for virtually all indoor/outdoor industrial, MRO and OEM applications. They are available in 10 sizes from 6 x 6 x 5 through 30 x 24 x 12 with a choice of screw or hinged design, opaque covers or clear polycarbonate covers that protect devices from hostile environments while enabling monitoring of instrumentation and/or electrical functions.



**Features:**

- Hinge caps make covers captive
- Non-metallic molded-in hinges on hinged models
- No rough corners, sharp edges or burrs
- Non-conductive — eliminates danger of electrical shock
- Lid design provides greater usable internal volume
- Ample interior space for ease of wiring
- Fully gasketed
- Ultraviolet stabilized for outdoor use

**Applications:**

- Instrument case
- Junction and terminal boxes
- Control and switching enclosures
- Splice and pull boxes
- Starter, pushbutton and transformer housings
- Meter and transformer cabinets

**Standards:**

- Meets NEMA Types 1, 3, 3S, 3X, 3SX, 4, 4X, 12, 13 as indicated
- UL® Listed per UL 50, enclosures for electrical equipment
- CSA Certified
- JIC compliance



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## Circuit Safe® JIC Enclosures

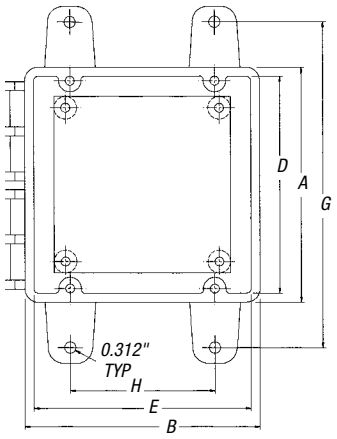
# Meets NEMA 1, 3, 3S, 3X, 3SX, 4, 4X, 12, 13.

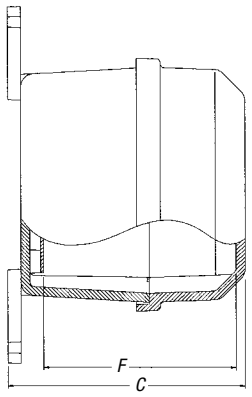
# Hinged Covers



**Features:**

- Non-metallic mounting feet and all mounting hardware included
- White-painted 14-gauge steel or ¼" PVC back panel (order separately)
- 304 (18-8) stainless steel screws (10-32/1⅛")
- Lid design provides greater usable internal volume
- Completely non-metallic hinges
- Brass screw inserts
- Temperature range: -30° to 230° F
- Material: polycarbonate molded base and cover




c UL us LISTED E108856 LR31146

**Factory Assembled**

| OPAQUE COVER CAT. NO. | CLEAR COVER CAT. NO. | DIMENSIONS (IN.) EXTERNAL A | B | C | INTERNAL D | E | F | MOUNTING G | H | STD. WT. (LBS.) OPAQUE/CLEAR | BACK PANEL* CAT. NO. STEEL | PVC | PANEL SIZE (IN.) | STD. WT. (LBS.) STEEL/PVC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CJ665** | **CC665** | 6.50 | 6.50 | 6.69 | 6.00 | 6.00 | 5.45 | 9.00 | 4.00 | 1 (Opa 3.5)/1 (Clr 3.1) | **JP66** | **JP66P** | 4.88 x 4.88 | 1 (1.0)/1 (0.3) |
| **CJ863** | **CC863** | 8.50 | 6.50 | 4.49 | 8.00 | 6.00 | 3.25 | 11.00 | 4.00 | 1 (Opa 2.8)/1 (Clr 3.1) | **JP86** | **JP86P** | 6.75 x 4.88 | 1 (1.0)/1 (0.78) |
| **CJ1085** | **CC1085** | 10.50 | 8.50 | 6.69 | 10.00 | 8.00 | 5.45 | 13.00 | 6.00 | 1 (Opa 5.2)/1 (Clr 5.2) | **JP108** | **JP108P** | 8.75 x 6.88 | 1 (1.5)/1 (0.7) |
| **CJ12106** | **CC12106** | 12.50 | 10.50 | 7.69 | 12.00 | 10.00 | 6.45 | 15.00 | 8.00 | 1 (Opa 7.1)/1 (Clr 8.4) | **JP1210** | **JP1210P** | 10.75 x 8.88 | 1 (2.0)/1 (1.2) |
| **CJ14126** | **CC14126** | 14.50 | 12.50 | 7.72 | 14.00 | 12.00 | 6.48 | 17.00 | 10.00 | 1 (Opa 9.0)/1 (Clr 8.6) | **JP1412** | **JP1412P** | 12.75 x 10.88 | 1 (3.2)/1 (1.7) |
| **CJ16147** | **CC16147** | 16.50 | 14.50 | 8.46 | 16.00 | 14.00 | 7.22 | 19.00 | 12.00 | 1 (Opa 10.6)/1 (Clr 11.9) | **JP1614** | **JP1614P** | 14.75 x 12.88 | 1 (4.7)/1 (2.3) |

**Order back panels separately.*

*Enclosures shipped with mounting feet, hinge caps and screws.*

*For factory-installed pad-lockable latch (part no. CJTL), consult Customer Service for price and delivery.*

## Circuit Safe® JIC Enclosures

# Meets NEMA 1, 3, 3S, 3X, 3SX, 4, 4X, 12, 13.

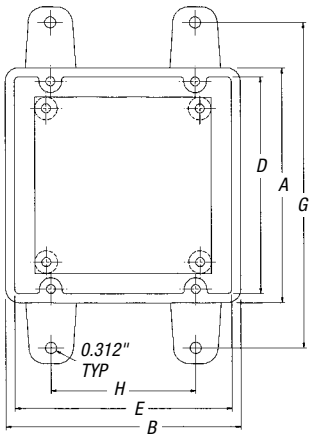
c UL us LISTED E108856 SP® LR31146

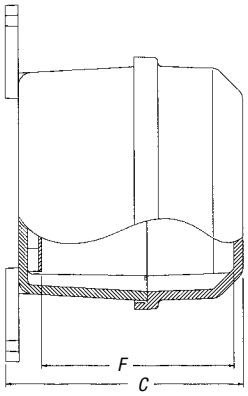
# Screw-On Covers

**Features:**

- Non-metallic mounting feet and all mounting hardware included
- 304 (18-8) stainless steel screws (10-32/1⅛")
- Brass screw inserts
- Clear polycarbonate cover available
- White-painted 14-gauge steel or ¼" PVC back panel (order separately)
- Lid design provides greater usable internal volume
- Temperature range: -30° to 230° F
- Material: polycarbonate molded base and cover






**Factory Assembled**

| OPAQUE COVER CAT. NO. | CLEAR COVER CAT. NO. | DIMENSIONS (IN.) EXTERNAL A | B | C | INTERNAL D | E | F | MOUNTING G | H | STD. WT. (LBS.) OPAQUE/CLEAR | BACK PANEL* CAT. NO. STEEL | PVC | PANEL SIZE (IN.) | STD. WT. (LBS.) STEEL/PVC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CS665** | **CV665** | 6.50 | 6.50 | 6.69 | 6.00 | 6.00 | 5.45 | 9.00 | 4.00 | 1 (Opa 2.7)/1 (Clr 2.9) | **JP66** | **JP66P** | 4.88 x 4.88 | 1 (1.0)/1 (0.3) |
| **CS863** | **CV863** | 8.50 | 6.50 | 4.49 | 8.00 | 6.00 | 3.25 | 11.00 | 4.00 | 1 (Opa 2.9)/1 (Clr 2.9) | **JP86** | **JP86P** | 6.75 x 4.88 | 1 (1.0)/1 (0.4) |
| **CS1085** | **CV1085** | 10.50 | 8.50 | 6.69 | 10.00 | 8.00 | 5.45 | 13.00 | 6.00 | 1 (Opa 5.0)/1 (Clr 5.0) | **JP108** | **JP108P** | 8.75 x 6.88 | 1 (1.5)/1 (0.7) |
| **CS12106** | **CV12106** | 12.50 | 10.50 | 7.69 | 12.00 | 10.00 | 6.45 | 15.00 | 8.00 | 1 (Opa 6.5)/1 (Clr 7.2) | **JP1210** | **JP1210P** | 10.75 x 8.88 | 1 (2.0)/1 (1.2) |
| **CS14126** | **CV14126** | 14.50 | 12.50 | 7.72 | 14.00 | 12.00 | 6.48 | 17.00 | 10.00 | 1 (Opa 8.0)/1 (Clr 8.8) | **JP1412** | **JP1412P** | 12.75 x 10.88 | 1 (3.2)/1 (1.7) |
| **CS16147** | **CV16147** | 16.50 | 14.50 | 8.46 | 16.00 | 14.00 | 7.22 | 19.00 | 12.00 | 1 (Opa 11.5)/1 (Clr 10.8) | **JP1614** | **JP1614P** | 14.75 x 12.88 | 1 (4.7)/1 (2.3) |

**Order back panels separately.*

*Enclosures shipped with mounting feet and panel mounting hardware.*



Thomas&Betts

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Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

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## Circuit Safe® JIC Enclosures

# Meets NEMA 1, 3, 3S, 3X, 3SX, 4, 4X, 12, 13.

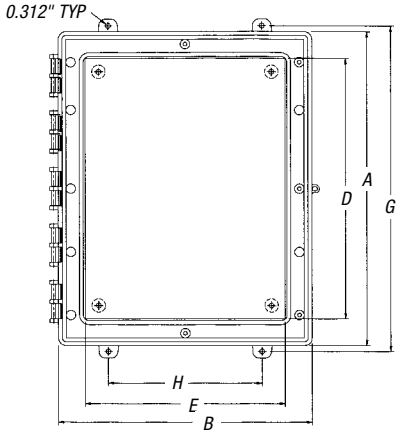
# Medium Hinged Covers

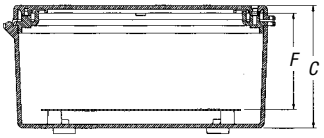
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**Features:**

- Non-metallic mounting feet and all mounting hardware included
- White-painted 14-gauge steel or ¼" PVC back panel (order separately)
- 304 (18-8) stainless steel screws (10-32/1⅛")
- Completely non-metallic hinges
- Brass screw inserts
- Temperature range: -40° to 185° F
- Material: NORYL base and cover






**Factory Assembled**

| CAT. NO. | DIMENSIONS (IN.) EXTERNAL A | B | C | INTERNAL D | E | F | MOUNTING G | H | STD. WT. (LBS.) | BACK PANEL* CAT. NO. STEEL | PVC | PANEL SIZE (IN.) | STD. WT. (LBS.) STEEL/PVC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **C2016A4** | 20.50 | 16.50 | 8.36 | 17.25 | 13.25 | 6.28 | 21.26 | 10.00 | 1 (15.1) | **NP2016** | **NP2016P** | 17 x 13.25 | 1 (7.0)/1 (6.1) |
| **C2016B4** | 20.50 | 16.50 | 10.36 | 17.25 | 13.25 | 8.28 | 21.26 | 10.00 | 1 (17.2) | **NP2016** | **NP2016P** | 17 x 13.25 | 1 (7.0)/1 (6.1) |
| **C2016C4** | 20.50 | 16.50 | 12.36 | 17.25 | 13.25 | 10.28 | 21.26 | 10.00 | 1 (19.7) | **NP2016** | **NP2016P** | 17 x 13.25 | 1 (7.0)/1 (6.1) |
| **C2420A4** | 24.50 | 20.50 | 8.36 | 21.25 | 17.25 | 6.28 | 25.26 | 14.00 | 1 (21.5) | **NP2420** | **NP2420P** | 21 x 17 | 1 (10.4)/1 (4.7) |
| **C2420B4** | 24.50 | 20.50 | 10.36 | 21.25 | 17.25 | 8.28 | 25.26 | 14.00 | 1 (24) | **NP2420** | **NP2420P** | 21 x 17 | 1 (10.4)/1 (4.7) |
| **C2420C4** | 24.50 | 20.50 | 12.36 | 21.25 | 17.25 | 10.28 | 25.26 | 14.00 | 1 (24.9) | **NP2420** | **NP2420P** | 21 x 17 | 1 (10.4)/1 (4.7) |
| **C3024A4** | 30.50 | 24.50 | 8.36 | 27.25 | 21.25 | 6.28 | 31.26 | 18.00 | 1 (28.4) | **NP3024** | **NP3024P** | 27 x 21 | 1 (18.0)/1 (9.8) |
| **C3024B4** | 30.50 | 24.50 | 10.36 | 27.25 | 21.25 | 8.28 | 31.26 | 18.00 | 1 (31.4) | **NP3024** | **NP3024P** | 27 x 21 | 1 (18.0)/1 (9.8) |
| **C3024C4** | 30.50 | 24.50 | 12.36 | 27.25 | 21.25 | 10.28 | 31.26 | 18.00 | 1 (33.8) | **NP3024** | **NP3024P** | 27 x 21 | 1 (18.0)/1 (9.8) |

**Order back panels separately.*

**Enclosure only available with opaque hinged cover.*

*Enclosures shipped with mounting feet, hinge caps and screws.*

*For factory-installed pad-lockable latch (part no. CJTL), consult Customer Service for price and delivery.*

## Circuit Safe® JIC Enclosures

# Meets NEMA 1, 3, 3S, 3X, 3SX, 4, 4X, 12, 13.

c UL us LISTED E108856 LR31146

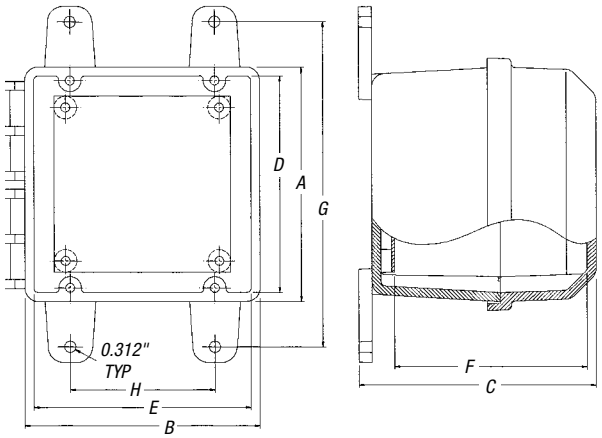
# Hinged Window Cover

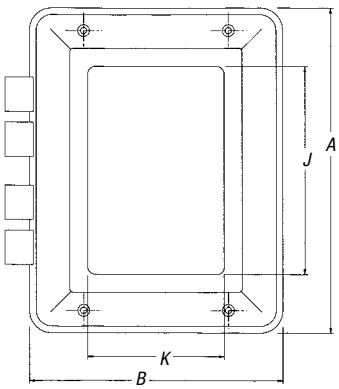
**Features:**

- Non-metallic mounting feet and all mounting hardware included
- 304 (18-8) stainless steel screws (10-32/1⅛")
- White-painted 14-gauge steel or ¼" PVC back panel (order separately)
- Completely non-metallic hinges
- Lid design provides greater usable internal volume
- Brass screw inserts
- Material: polycarbonate molded base and cover

***Note:*** *Window material ⅛" thick, clear polycarbonate is permanently bonded to the cover.*






### Factory Assembled

| CAT. NO. | DIMENSIONS (IN.) EXTERNAL A | B | C | D | INTERNAL E | F | G | MOUNTING H | J | K | STD. WT. (LBS.) | BACK PANEL* CAT. NO. STEEL | PVC | PANEL SIZE (IN.) | STD. WT. (LBS.)STEEL/ PVC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **J665W** | 6.50 | 6.50 | 6.69 | 6.00 | 6.00 | 5.45 | 9.00 | 4.00 | 3.75 | 3.75 | 1 (3.1) | **JP66** | **JP66P** | 4.88 x 4.88 | 1 (1.0)/1 (0.3) |
| **J863W** | 8.50 | 6.50 | 4.49 | 8.00 | 6.00 | 3.25 | 11.00 | 4.00 | 3.75 | 3.75 | 1 (3.2) | **JP86** | **JP86P** | 6.75 x 4.88 | 1 (1.0)/1 (0.78) |
| **J1085W** | 10.50 | 8.50 | 6.69 | 10.00 | 8.00 | 5.45 | 13.00 | 6.00 | 7.75 | 5.75 | 1 (5.6) | **JP108** | **JP108P** | 8.75 x 6.88 | 1 (1.5)/1 (0.7) |
| **J12106W** | 12.50 | 10.50 | 7.69 | 12.00 | 10.00 | 6.45 | 15.00 | 8.00 | 9.75 | 7.75 | 1 (7.4) | **JP1210** | **JP1210P** | 10.75 x 8.88 | 1 (2.0)/1 (1.2) |

*Enclosures shipped with mounting feet, hinge caps and screws.*

**Order back panels separately.*

*For factory-installed pad-lockable quick-release latch (part no. CJTL), consult Customer Service for price and delivery.*



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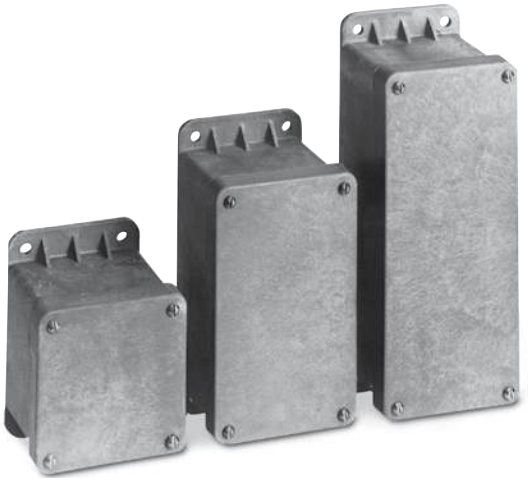
**Technical Services**
Tel: 888.862.3289

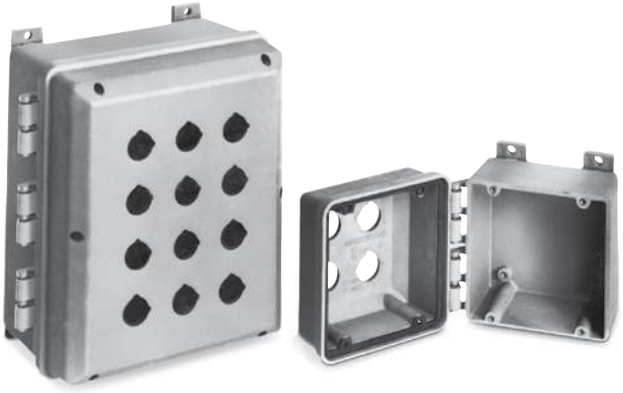
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# Circuit Safe® Pushbutton Enclosures

Circuit Safe® Non-Metallic Pushbutton Enclosures are molded from engineered thermoplastic material that is resistant to most corrosive agents. Whether predrilled 1-2-3 hole enclosures, blank cover enclosures or enclosures with multiple hole openings, Carlon's pushbutton enclosure series offers high-impact strength, chemical resistance, high dielectric strength and excellent durability for the correct application.







**Features:**

- Engineered thermoplastic base and cover
- 304 stainless steel screws
- Brass screw inserts
- High-impact strength
- Temperature range: -40° to 185° F
- UL94-V2

**Applications:**

- Standard oil-tight pushbuttons, switches and pilot lights
- Conduit entries
- Junction boxes
- MRO and OEM applications

**Standards:**

- Standards vary by product
- Screw cover pushbutton enclosures with 1-2-3 hole openings are listed per UL 50 for industrial controls
- Narrow-profile blank-screw cover enclosures are listed per UL 50 for industrial controls and meet NEMA Type 1, 3, 3S, 3X, 3SX, 4, 4X, 12 and 13
- Non-metallic hinged cover enclosures with multiple hole openings are UL Listed

## Circuit Safe® Pushbutton Enclosures

# UL® Listed per UL 50 for Industrial Controls.

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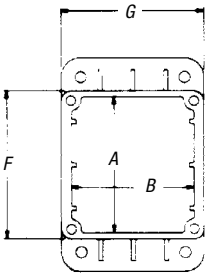
# Screw Cover Enclosures with 1-2-3 Hole Openings

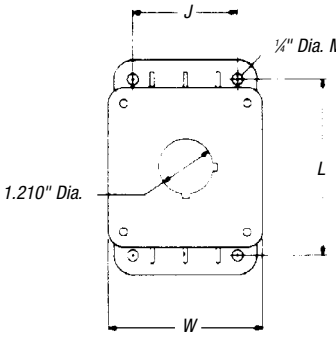
Wallmount pushbutton enclosures are molded from gray, engineered thermoplastic material that is resistant to most corrosive agents. Universal pushbutton holes are designed to accommodate all standard oil-tight pushbuttons, switches and pilot lights. A grounding plate is included on the cover. Auxiliary devices must be rated for appropriate NEMA applications.

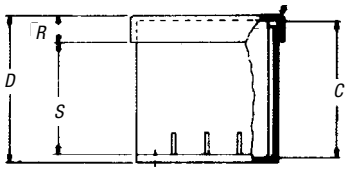


### Features:

- 30.5mm keyed pushbutton holes*
- Material: nylon base and cover
- Integrally molded mounting flange
- Brass screw inserts
- 304 (18-8) stainless screws (8-32/⅜")
- Temperature range: -40° to 185°F
- UL94-V2




### 30.5mm Pushbutton Enclosures †

| CAT. NO. | STYLE | INSIDE BOX SIZE A X B X C | MOUNTING L X J | OVERALL OUTSIDE INCLUDING MOUNTING BRACKET H X W X D | F | G | R | S | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|
| **CP100N** | One Opening | 3.13 x 2.81 x 3 | 4 x 2.38 | 4.88 x 3.50 x 3.38 | 3.38 | 3.25 | .63 | 2.5 | 12 | 9 |
| **CP200N** | Two Openings | 5.38 x 2.81 x 3 | 6.25 x 2.38 | 7.13 x 3.50 x 3.38 | 5.63 | 3.25 | .63 | 2.5 | 8 | 8 |
| **CP300N** | Three Openings | 7.38 x 2.81 x 3 | 8.50 x 2.38 | 9.38 x 3.50 x 3.38 | 7.88 | 3.25 | .63 | 2.5 | 6 | 7.60 |

### 22mm Pushbutton Enclosures *†

| CAT. NO. | STYLE | INSIDE BOX SIZE A X B X C | MOUNTING L X J | OVERALL OUTSIDE INCLUDING MOUNTING BRACKET H X W X D | F | G | R | S | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|
| **PX0010** | One Opening | 3.13 x 2.81 x 3 | 4 x 2.38 | 4.88 x 3.50 x 3.38 | 3.38 | 3.25 | .63 | 2.5 | 10 | 8.26 |
| **PX0007** | Two Openings | 5.38 x 2.81 x 3 | 6.25 x 2.38 | 7.13 x 3.50 x 3.38 | 5.63 | 3.25 | .63 | 2.5 | 1 | 1.31 |
| **PX0011** | Three Openings | 7.38 x 2.81 x 3 | 8.50 x 2.38 | 9.38 x 3.50 x 3.38 | 7.88 | 3.25 | .63 | 2.5 | 6 | 9.43 |
| **PX0008** | Four Openings | 7.38 x 2.81 x 3 | 8.50 x 2.38 | 9.38 x 3.50 x 3.38 | 7.88 | 3.25 | .63 | 2.5 | 1 | 1.60 |

** All Circuit Safe pushbutton enclosures are furnished with standard hole dimensions: 1⅛2" diameter with keyways at 12 o'clock and 3 o'clock*

*† Dimensions are in inches unless marked otherwise. Operators not included.*



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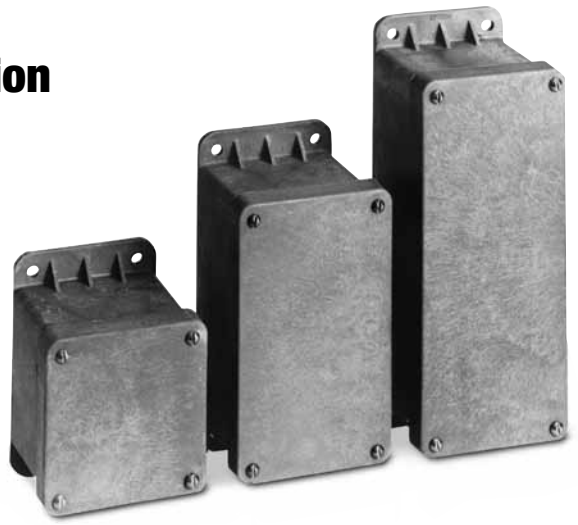
## Circuit Safe® Pushbutton Enclosures

# UL® Listed per UL 50 for Industrial Controls. Meets NEMA 1, 3, 3S, 3X, 3SX, 4, 4X, 12, 13.

c UL us LISTED E108856 LR31146

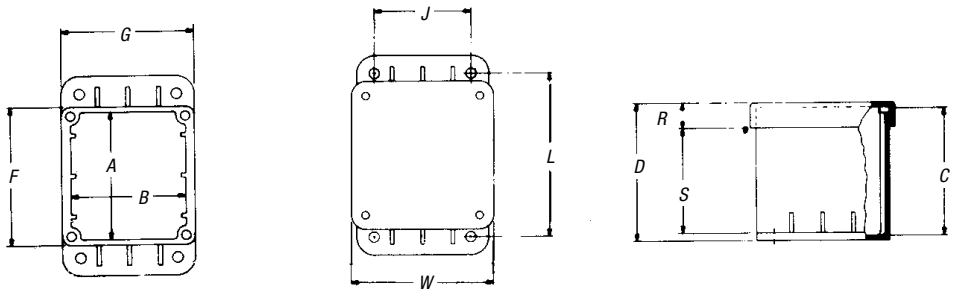
## Narrow-Profile Blank Screw Cover Enclosures for Small Instrumentation and Control Applications

Blank cover enclosures can be easily drilled with a standard hole saw for conduit entries and pushbuttons. Wallmount enclosures are molded from gray, engineered thermoplastic material and are resistant to most corrosive agents.



**Features:**

- Brass screw inserts
- Material: nylon base and cover
- Integrally molded mounting flange
- 304 (18-8) stainless screws (10-32/⅜")
- Temperature range: -40° to 185° F




**Blank Screw Cover Enclosures *†**

| CAT. NO. | STYLE | INSIDE BOX SIZE A X B X C | MOUNTING L X J | OVERALL OUTSIDE INCLUDING MOUNTING BRACKET H X W X D | F | G | R | S | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|
| **CP100NB** | Blank Cover | 3.13 x 2.81 x 3 | 4 x 2.38 | 4.88 x 3.50 x 3.38 | 3.38 | 3.25 | .63 | 2.5 | 12 | 9.60 |
| **CP200NB** | Blank Cover | 5.38 x 2.81 x 3 | 6.25 x 2.38 | 7.13 x 3.50 x 3.38 | 5.63 | 3.25 | .63 | 2.5 | 8 | 8.8 |
| **CP300NB** | Blank Cover | 7.38 x 2.81 x 3 | 8.50 x 2.38 | 9.38 x 3.50 x 3.38 | 7.88 | 3.25 | .63 | 2.5 | 6 | 8.20 |

** All Circuit Safe pushbutton enclosures are furnished with standard hole dimensions: 1½" diameter with keyways at 12 o'clock and 3 o'clock*

*† Dimensions are in inches unless marked otherwise.*

## Circuit Safe® Pushbutton Enclosures

# Hinged Cover Enclosures with Multiple Hole Openings

c UL us LISTED E108856 LR31146



Made from engineered thermoplastic material, these enclosures are ideal for applications that require high-impact strength, chemical resistance, high dielectric strength and excellent weathering capabilities, including indoor/outdoor industrial, MRO and OEM applications. Non-metallic hinges are an integral part of the mold. Removable cover enables easy field adjustment. Auxiliary devices must be rated for appropriate NEMA applications.

**Features:**

- Non-metallic mounting feet and all mounting hardware included
- White-painted 14-gauge steel or 1⅛" PVC back panel (order separately)
- Material: engineered thermoplastic base and cover
- 304 stainless steel screws
- Brass screw inserts
- Lid design provides greater usable volume
- Completely non-metallic hinges
- Temperature range: -40° to 185° F

### Screw Cover Pushbutton Enclosures with Multiple 30.5mm Openings*

| CAT. NO. | OPENINGS | INSIDE BOX SIZE (IN.) | WEIGHT (LBS.) | STD. CTN. | PANEL CAT. NO. | SIZE (IN.) STEEL/PVC |
|---|---|---|---|---|---|---|
| **J665P** | 4 | 6 x 6 x 5.88 | 2.42 | 1 | **JP66 / JP66P** | 4.88 x 4.88 |
| **J863P** | 6 | 8 x 6 x 3.63 | 1.86 | 1 | **JP86 / JP86P** | 6.75 x 4.88 |
| **J1085P** | 9 | 10 x 8 x 5.88 | 3.59 | 1 | **JP108 / JP108P** | 8.75 x 6.88 |
| **J12106P** | 12 | 12 x 10 x 6.88 | 4.29 | 1 | **JP1210 / JP1210P** | 10.75 x 8.88 |
| **J14126P** | 20 | 14 x 12 x 6.88 | 7.19 | 1 | **JP1412 / JP1412P** | 12.75 x 10.88 |
| **J16147P** | 25 | 16 x 14 x 7.63 | 11.20 | 1 | **JP1614 / JP1614P** | 14.75 x 12.88 |

*For enclosures larger than 25 position, please call Customer Service.*

** All Circuit Safe pushbutton enclosures are furnished with standard hole dimensions: 1⁷⁄₃₂" diameter with keyways at 12 o'clock and 3 o'clock.*

*Special openings or positionings available on request.*



Thomas&Betts

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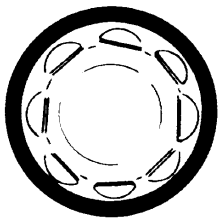
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Tel: 888.862.3289

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# Circuit Safe® NEMA Accessories

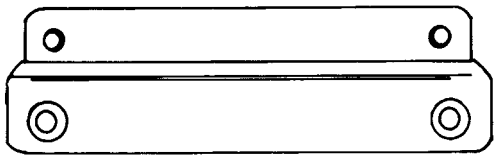


## Gasketed Pushbutton Hole Plug



| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| **CP900** | Standard PB Hole | 100 | 2.0 |

## Mounting Rail Kits



| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| **NMK4V** | 4 | 25 | 5 |
| **NMK6V** | 6 | 24 | 7.7 |
| **NMK8V** | 8 | 24 | 10.25 |
| **NMK10V** | 10 | 20 | 13.26 |
| **NMK12V** | 12 | 20 | 11.4 |
| **NMK14V** | 14 | 25 | 17.76 |

**Mounting Rails include two rails and four stainless steel screws.*

*Mounting Rails can be mounted on long or short side of enclosure.*

*Size mounting flange to side of the enclosure to which the flange will be attached.*

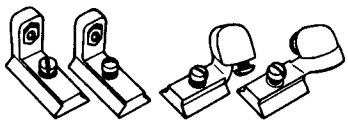
## Panel Adjuster Kits



*Panel Adjuster Kit (NBPADJ2)*



*180° Swing-Out Panel Kit (NBPSWG)*

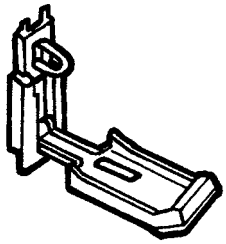


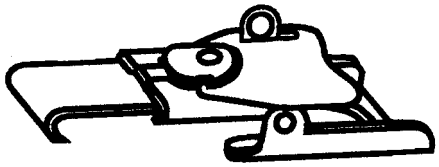
*Swing-Out Panel Adjuster Kit (NBPSWG2)*

| CAT. NO. | PRODUCT | DESCRIPTION | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| **NBPADJ2** | Panel Adjuster Kit | (4) Panel Adjusters<br>(4) #10-32 Screws to Mount Panel | 10 Kits | 2.07 |
| **NBPSWG** | 180° Swing-Out Panel Kit | (4) Panel Adjusters<br>(2) Hinges<br>(2) #10-32 Screws to Mount Panel | 10 Kits | 2.68 |
| **NBPSWG2** | Swing-Out Panel Adjuster Kit | (2) Hinged Adjusters<br>(2) Panel Adjusters<br>(4) #10-32 Screws | 10 Kits | 1.80 |

# Circuit Safe® NEMA Accessories

- For NEMA hinged enclosures.





## Latch Kits

| CAT. NO. | PRODUCT | DESCRIPTION | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| **NPL1L** | Non-Metallic Quick-Release Latch Kit | Quick-Release Latch Kit for Use with Hidden Hinge Enclosure for NH & NI Series | 25 | 2.00 |
| **NPL1S** | Non-Metallic Quick-Release Latch Kit | Quick-Release Latch Kit for Use with External Hinge Enclosure for NJ & NC Series | 25 | 2.00 |
| **SSLL** | 304 Stainless Steel Quick-Release Latch Kit | Quick-Release Latch Kit for Use with Hidden Hinge Enclosure for NH & NI Series | 25 | 4.27 |
| **SSLS** | 304 Stainless Steel Quick-Release Latch Kit | Quick-Release Latch Kit for Use with External Hinge Enclosure for NJ & NC Series | 25 | 3.41 |



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Fax: 901.252.1354

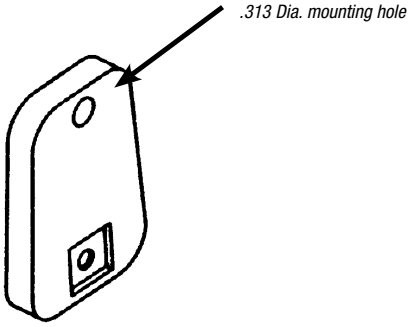
**Technical Services**
Tel: 888.862.3289

www.tnb.com

# Circuit Safe® JIC Accessories

- For Circuit Safe® Enclosures — Type CC, CJ, CS, CV, J

## Mounting Feet




| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| CJB159* | As required | .04 |

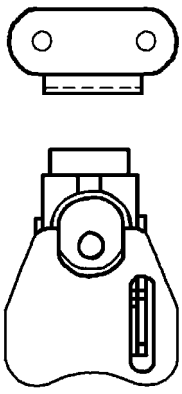
**CJB159 non-metallic mounting feet provide ¼" standoff and may be used to mount enclosures in horizontal or vertical mode. They are shipped with all Circuit Safe® JIC enclosures. No screws are provided when mounting feet are ordered separately.*

## JIC Installation Kit

| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| CH208* | 1 Kit | .25 |

**Installation kit is included as standard equipment with all JIC enclosures. Information listed here for purposes of additional purchase only. Kit includes four mounting feet, eight hinge caps and eight screws.*

## JIC Latch Kit



| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| CJTL* | As required | .04 |

*Stainless steel. Kit includes latch and keeper.*

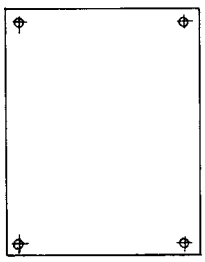
** Factory installed. Consult Customer Service for price and delivery. Not UL Listed.*

# Circuit Safe® JIC Accessories

## Steel back panels are white-painted 14-gauge steel.

### Steel Back Panels*

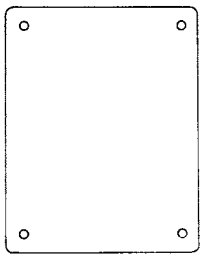
| CAT. NO. | THICKNESS | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| JP64 | 14 gauge | 4.88 x 2.88 | 1 | .6 |
| JP66 | 14 gauge | 4.88 x 4.88 | 1 | 1.0 |
| JP86 | 14 gauge | 6.75 x 4.88 | 1 | 1.0 |
| JP88 | 14 gauge | 6.75 x 6.88 | 1 | 1.2 |
| JP108 | 14 gauge | 8.75 x 6.88 | 1 | 1.5 |
| JP1010 | 14 gauge | 8.75 x 8.88 | 1 | 2.3 |
| JP1210 | 14 gauge | 10.75 x 8.88 | 1 | 2.7 |
| JP1212 | 14 gauge | 10.75 x 10.88 | 1 | 3.5 |
| JP1412 | 14 gauge | 12.75 x 10.88 | 1 | 3.8 |
| JP1614 | 14 gauge | 14.75 x 12.88 | 1 | 4.7 |



## PVC back panels are made from ¼" PVC and meet UL94V-0.

### PVC Back Panels*

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| JP64P | 4 ⅞ x 2 ⅞ | 1 | .3 |
| JP66P | 4 ⅞ x 4 ⅞ | 1 | .3 |
| JP86P | 6 ¾ x 4 ⅞ | 1 | .4 |
| JP88P | 6 ¾ x 6 ⅞ | 1 | .5 |
| JP108P | 8 ¾ x 6 ⅞ | 1 | .7 |
| JP1010P | 8 ¾ x 8 ⅞ | 1 | .9 |
| JP1210P | 10 ¾ x 8 ⅞ | 1 | 1.2 |
| JP1212P | 10 ¾ x 10 ⅞ | 1 | 1.5 |
| JP1412P | 12 ¾ x 10 ⅞ | 1 | 1.7 |
| JP1614P | 14 ¾ x 12 ⅞ | 1 | 2.3 |

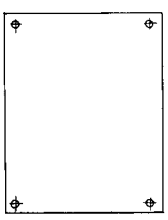


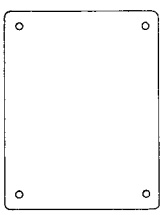
### Medium NEMA Back Panels*

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| NP2016 / NP2016P | 17 x 13 | 1 | 7.0/6.125 |
| NP2420 / NP2420P | 21 x 17 | 1 | 10.4/4.71 |
| NP3024 / NP3024P | 27 x 21 | 1 | 18.0/9.781 |

**Circuit Safe NEMA enclosures are not shipped with back panels, which must be ordered separately.*

*All accessories can be factory installed. Consult Customer Service for price and delivery.*







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# Circuit Safe® NEMA and JIC Accessories

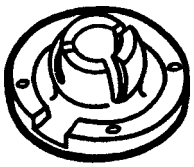


## For 3R Rating and condensation buildup.

### Draining Device*

| CAT. NO. | STD. CTN. |
|---|---|
| HPVEA9 | 30 |

*Factory installation available.



## NEMA 1 Rated only.

### Air Vents*

| CAT. NO. | STYLE | STD. CTN. |
|---|---|---|
| HPVM25 | For Fitting Outside of All Enclosures | 30 |
| HPVM35 | For Fitting Inside of All Enclosures | 30 |

*Factory installation available.

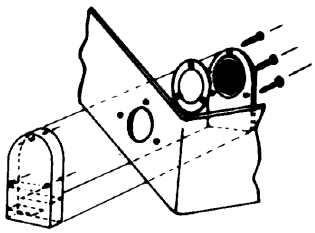


## Enables any size enclosure to breathe, yet remain watertight.

### Enclosure Ventilator*

| CAT. NO. | STD. CTN. |
|---|---|
| HVM27 | 15 |

*Factory installation available.



# Window Kits

c UL us LISTED E88685

Carlon® hinged window kits are used to create a NEMA 4X environment on electronic control panels. Polycarbonate construction and double gaskets ensure environmental integrity.

**Features:**

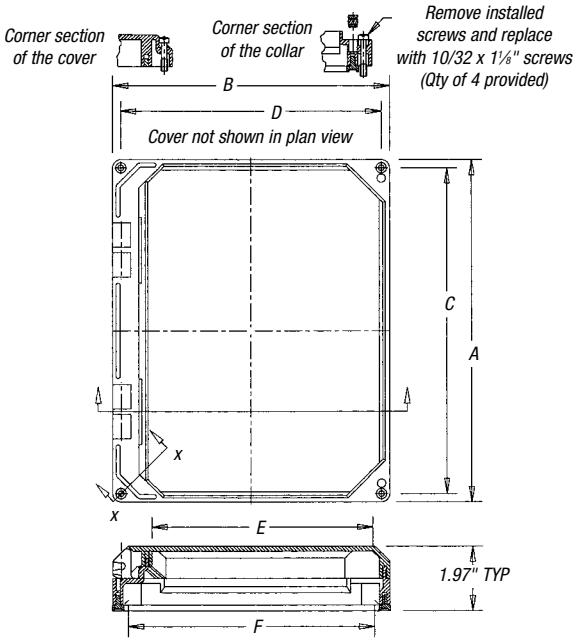
- High-impact strength
- High dielectric strength
- Suitable for indoor and outdoor use
- Fully gasketed

**Standards:**

- UL Listed and meets NEMA Type 4X with the exception of NI1614W; all sizes are NEMA Type 1 and 12 rated

**Applications:**

- Instrument case
- Junction and terminal boxes
- Control and switching enclosures
- Meter and transformer cabinets
- Small device enclosures
- Surface-mounted instruments




| CAT. NO.* | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| **NI64W** | 6 x 4 | 1 | .8 |
| **NI66W** | 6 x 6 | 1 | .9 |
| **NI86W** | 8 x 6 | 1 | 1.17 |
| **NI88W** | 8 x 8 | 1 | 1.4 |
| **NI108W** | 10 x 8 | 1 | 1.5 |
| **NI1010W** | 10 x 10 | 1 | 1.82 |
| **NI1210W** | 12 x 10 | 1 | 2.12 |
| **NI1212W** | 12 x 12 | 1 | 2.65 |
| **NI1412W** | 14 x 12 | 1 | 2.67 |
| **NI1614W** | 16 x 14 | 1 | 3.10 |

*All window kits can be factory installed to Carlon® enclosures.*
*Consult factory for price and delivery.*
** Non-stock factory order only — consult Customer Service.*
*NI1614W is not NEMA Type 4X Rated*

| SIZE | DIMENSIONS (IN.) | | | | | |
|---|---|---|---|---|---|---|
| | A | B | C | D | E | F |
| **NI64W** | 6.42 (163.1) | 4.41 (112.0) | 5.92 (150.4) | 3.94 (100.0) | 2.72 (69.1) | 3.80 (96.5) |
| **NI66W** | 6.42 (163.1) | 6.42 (163.1) | 5.94 (150.9) | 5.94 (150.9) | 4.72 (119.9) | 5.80 (147.3) |
| **NI86W** | 8.44 (214.4) | 6.42 (163.1) | 7.92 (201.2) | 5.94 (150.9) | 4.72 (119.9) | 5.80 (147.3) |
| **NI88W** | 8.44 (214.4) | 8.43 (214.1) | 7.95 (201.9) | 7.95 (201.9) | 6.72 (170.7) | 7.80 (198.1) |
| **NI108W** | 10.46 (265.7) | 8.45 (214.6) | 9.95 (253.5) | 7.96 (202.2) | 6.72 (170.7) | 7.80 (198.1) |
| **NI1010W** | 10.45 (265.4) | 10.45 (265.4) | 9.97 (253.2) | 9.97 (253.2) | 8.72 (221.5) | 9.80 (248.9) |
| **NI1210W** | 12.46 (316.5) | 10.45 (265.4) | 11.99 (304.5) | 9.97 (253.2) | 8.72 (221.5) | 9.80 (248.9) |
| **NI1212W** | 12.50 (317.5) | 12.50 (317.5) | 12.00 (304.8) | 12.00 (304.8) | 10.72 (272.3) | 11.80 (299.7) |
| **NI1412W** | 14.50 (368.3) | 12.50 (317.5) | 14.01 (355.9) | 12.00 (304.8) | 10.72 (272.3) | 11.80 (299.7) |
| **NI1614W** | 16.52 (419.6) | 14.48 (367.8) | 16.03 (407.2) | 14.02 (356.1) | 12.72 (323.1) | 13.80 (350.5) |

***Note:*** *Chart dimensions read in (mm)*



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# Himeline® Enclosures HS, HP, HLA/HLS Series

Carlon® Himeline® enclosures are the ideal alternative to expensive stainless steel enclosures. They have excellent corrosion-resistant properties and are impervious to sunlight, dirt and moisture. Available in four series (HS, HP and HLA/HLS), with sizes ranging from 11 x 7 x 7 through 50 x 40 x 17, these enclosures offer choices that include double doors, clear or opaque covers, hinged and screw versions, single- or three-point closure mechanisms, 4X windows, DIN rail mounting and an adjustable depth door-in-door option that enables you to customize your enclosures by separating power from communications.





**Features:**

- High-impact strength
- High dielectric strength
- Suitable for indoor and outdoor use
- Fully gasketed
- Lightweight

**Applications:**

- Instrument case
- Junction and terminal boxes
- Control and switching enclosures
- Meter and transformer cabinets
- Small device enclosures

**Standards:**

- Meets NEMA and IP standards as indicated in appropriate section
- UL® Listed as indicated

## Himeline® Enclosures

# HS Series Screw-On Fastened and Hinged Cover Enclosures

- Meets NEMA 1, 3, 3S, 4, 4X, 12, 13
- Meets IP 65

Himeline® HS Series enclosures are designed for use as junction boxes, terminal wiring boxes, instrument and control housings and small device enclosure applications. Molded under high pressure, Himeline® HS Series enclosures provide high-impact strength, chemical resistance, high dielectric strength and excellent weathering capabilities.



**Features:**
- Standard slotted locking screw
- High-impact strength
- Chemical resistance
- High dielectric strength
- Excellent weathering capabilities
- Sealing gasket on all models
- Sunlight resistant

**Applications:**
- Junction boxes
- Terminal wiring boxes
- Instrument and control housings
- Small device enclosure applications
- Indoor or outdoor use

**Material:**
- Opaque/Clear Lid — Polycarbonate
- Base — Fiberglass Reinforced Polyester

**Standards:**
- Meets NEMA Type 1, 3, 3S, 4, 4X, 12, 13 ratings
- UL Listed per UL 50, enclosures for electrical equipment
- Meets IP 65
- UL® Listed (E108856)



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## Himeline® Enclosures

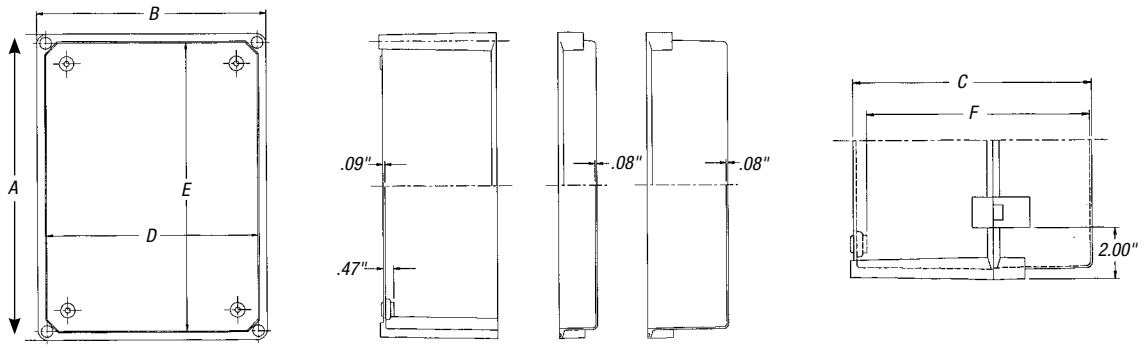
# HS Series Screw-On Fastened and Hinged Cover Enclosures

c UL us LISTED E108856



**Features:**

- Molded under high pressure
- High-impact strength
- Chemical resistance
- High dielectric strength
- Excellent weathering capabilities
- Clear cover available




| OPAQUE SCREW-ON COVER CAT. NO. | CLEAR SCREW-ON COVER CAT. NO. | OPAQUE HINGED COVER CAT. NO. | CLEAR HINGED COVER CAT. NO. | DIMENSIONS (IN.) EXTERNAL A | B | C | INTERNAL D | E | F | OPAQUE WT. (LBS.) EACH SCREW/ HINGED | CLEAR WT. (LBS.) EACH SCREW/ HINGED | STD. CTN. | BACK PANEL CAT. NO. | DIMENSIONS (IN.) H X W | THICK-NESS (IN.) | STD. WT. (LBS.) | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HS7A7 | HS7A7C | HH7A7 | HH7A7C | 10.63 | 7.09 | 7.09 | 6.26 | 9.80 | 6.54 | 10.7/7 | 10.9/6.2 | 4 | HS7ABP | 5.51 x 9.05 | .08 | 1.1 | 1 |
| HS11A7 | HS11A7C | HH11A7 | HH11A7C | 10.63 | 10.63 | 7.09 | 9.80 | 9.80 | 6.54 | 15.2/8.5 | 14/8 | 4 | HS11ABP | 9.05 x 9.05 | .08 | 1.7 | 1 |
| HS11B7 | HS11B7C | HH11B7 | HH11B7C | 14.17 | 10.63 | 7.09 | 9.80 | 13.35 | 6.54 | 17/4 | 18/4 | 4 | HS11BBP | 9.05 x 12.60 | .08 | 2.4 | 1 |
| HS11C7 | HS11C7C | HH11C7 | HH11C7C | 21.26 | 10.63 | 7.09 | 9.80 | 20.43 | 6.54 | 13/13 | 12.5/13 | 2 | HS11CBP | 9.05 x 19.68 | .08 | 3.9 | 1 |
| HS15C7 | HS15C7C | HH15C7 | HH15C7C | 21.26 | 14.17 | 7.09 | 13.35 | 20.43 | 6.54 | 17.7/11 | 18/11 | 2 | HS15CBP | 12.60 x 19.68 | .08 | 6.6 | 1 |
| HS21C7 | HS21C7C | HH21C7 | HH21C7C | 21.26 | 21.26 | 7.09 | 20.43 | 20.43 | 6.54 | 12.5/13 | 12/13 | 1 | HS21CBP | 19.68 x 19.68 | .08 | 8.8 | 1 |
| HS11A9 | HS11A9C | HH11A9 | HH11A9C | 10.63 | 10.63 | 9.06 | 9.80 | 9.80 | 8.47 | 15/4 | 16.6/5 | 4 | HS11ABP | 9.05 x 9.05 | .08 | 1.7 | 1 |
| HS11B9 | HS11B9C | HH11B9 | HH11B9C | 14.17 | 10.63 | 9.06 | 9.80 | 13.35 | 8.47 | 20/6 | 19/6 | 4 | HS11BBP | 9.05 x 12.60 | .08 | 2.5 | 1 |
| HS11C9 | HS11C9C | HH11C9 | HH11C9C | 21.26 | 10.63 | 9.06 | 9.80 | 20.43 | 8.47 | 14/9 | 14/9 | 2 | HS11CBP | 9.05 x 19.68 | .08 | 3.9 | 1 |
| HS15C9 | HS15C9C | HH15C9 | HH15C9C | 21.26 | 14.17 | 9.06 | 13.35 | 20.43 | 8.47 | 18.5/11 | 19/11 | 2 | HS15CBP | 12.60 x 19.68 | .08 | 6.6 | 1 |
| HS21C9 | HS21C9C | HH21C9 | HH21C9C | 21.26 | 21.26 | 9.06 | 20.43 | 20.43 | 8.47 | 13/14 | 14/14 | 1 | HS21CBP | 19.68 x 19.68 | .08 | 8.8 | 1 |
| HS15D9 | HS15D9C | HH15D9 | HH15D9C | 28.35 | 14.17 | 9.06 | 13.35 | 27.52 | 8.47 | 13/13 | 13/13 | 1 | HS15DBP | 12.60 x 26.77 | .10 | 9.5 | 1 |
| HS21D9 | HS21D9C | HH21D9 | HH21D9C | 28.35 | 21.26 | 9.06 | 20.43 | 27.52 | 8.47 | 18/18 | 17/18 | 1 | HS21DBP | 19.68 x 26.77 | .10 | 15.5 | 1 |

*Back panels and mounting feet must be ordered separately.*

*Consult Customer Service for availability and delivery.*

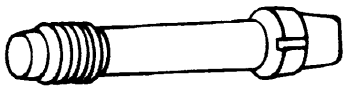
## Himeline® Enclosures

# HS Series Accessories

## For Himeline® HS Enclosures.

### Thumb Screws

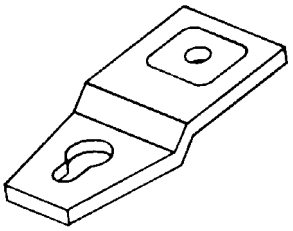
| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| HSTS4 | 25 | 0.1 |
| HSTS6 | 25 | 0.15 |



## For Himeline® HS Enclosures.

### Mounting Feet

| CAT. NO. | DESCRIPTION | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| HSMFZ | Zinc Dichromated Steel | 25 | 0.2 |
| HSMFSS | 304 Stainless Steel | 25 | 0.2 |

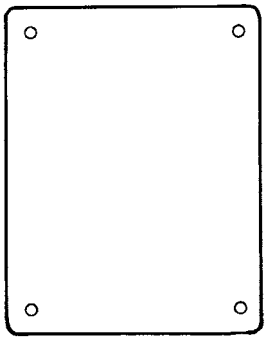


## For Himeline® HS Enclosures, metal back panels are white-painted 14-gauge steel.

### Back Panels*

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| HS7ABP | 5.51 x 9.05 | 1 | 1.2 |
| HS11ABP | 9.05 x 9.05 | 1 | 2.0 |
| HS11BBP | 9.05 x 12.06 | 1 | 2.7 |
| HS11CBP | 9.05 x 19.68 | 1 | 4.3 |
| HS15CBP | 12.60 x 19.68 | 1 | 7.1 |
| HS21CBP | 19.68 x 19.68 | 1 | 9.6 |
| HS15DBP | 12.60 x 26.77 | 1 | 10.2 |
| HS21DBP | 19.68 x 26.77 | 1 | 16.6 |

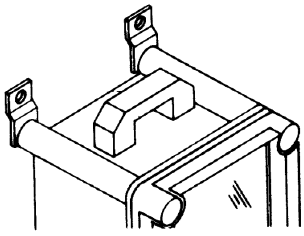
**Himeline HS enclosures are not shipped with back panels. Order separately.*
*PVC back panels available upon request. Consult Customer Service.*



## Converts enclosures to portable units for meters and portable power.

### Non-Metallic Carrying Handle

| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| HSCH | 10 | 0.2 |





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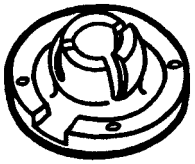
# HS Series Accessories

## For 3R Rating and condensation buildup.

### Draining Device*

| CAT. NO. | STD. CTN. |
|---|---|
| HPVEA9 | 30 |

*Factory installation available.*



## NEMA 1 Rated only.

### Air Vents*

| CAT. NO. | STYLE | STD. CTN. |
|---|---|---|
| HPVM25 | For Fitting Outside of All Enclosures | 25 |
| HPVM35 | For Fitting Inside of All Enclosures | 30 |

*Factory installation available.*

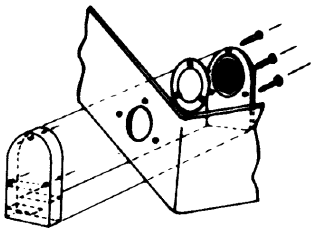


## Enables any size enclosure to breathe, yet remain watertight.

### Enclosure Ventilator*

| CAT. NO. | STD. CTN. |
|---|---|
| HVM27 | 15 |

*Factory installation available.*



## Himeline® Enclosures

# HP Series Enclosures with Hinged Quick-Release Cover

- Meets NEMA 1, 3, 3S, 4, 4X, 12, 13
- Meets IP 66

Himeline® HP Series enclosures for medium-sized devices and equipment provide superior performance as junction and terminal wiring boxes and instrument and control housing applications.

For indoor/outdoor industrial, MRO and OEM applications. HP Series enclosures are resistant to corrosion, sunlight, chemicals, dirt and moisture. Temperature range from -58° F to 320° F.



**Features:**

- Projections for affixing cover mounted panel
- Door-locking mechanism convertible to key lock
- M8x18 studs for back panel mounting (included)
- Hidden hinges open 185° for easy access
- Multi-positional DIN rail fixing components
- Removable stainless steel hinge pins
- Single-piece construction
- Opaque or tempered glass window option
- Steel, non-metallic and slotted back panels available
- External and internal venting available
- Hinged, variable-height inner panel option
- Quick-locking ¼-turn entry
- Underside grid pattern on inner door panel
- Self-positioning panel depth adjusters
- Pole mounting kit
- Pedestal mounting capability
- Sunlight resistant

**Applications:**

- Junction boxes
- Terminal wiring boxes
- Instrument and control housing
- Indoor or outdoor use

**Standards:**

- NEMA Type 1, 3, 3S, 4, 4X, 12, 13
- UL® Listed per UL 50, enclosures for electrical equipment
- Meets IP 66

**Material:**

- Lids/Bases — Fiberglass-reinforced polyester



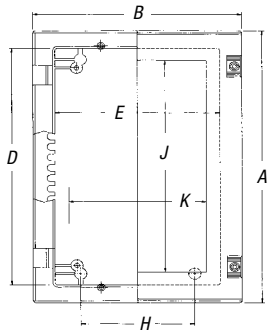
Thomas&Betts

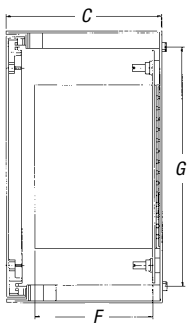
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800.816.7809
Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

www.tnb.com

# HP Series Enclosures with Hinged Quick-Release Cover




*Depth with back panel installed*

c UL us LISTED *E108856*

| ENCLOSURE WITH OPAQUE COVER CAT. NO. | STD. WT. (LBS.) | ENCLOSURE WITH CLEAR WINDOW* | STD. WT. (LBS.) | WINDOW DIMENSIONS (H X W) (IN.) | DIMENSIONS (IN.) EXTERNAL A | B | C | INTERNAL D | E | F | MOUNTING G | H | WINDOW J | K | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **HP1612B** | 11.04 | **HC1612B** | 12.5 | 11 x 7.87 | 16.93 | 12.99 | 7.87 | 14.96 | 10.24 | 6.61 | 14.76 | 5.91 | 11.02 | 7.87 | 1 |
| **HP2016B** | 16.80 | **HC2016B** | 17.2 | 14.96 x 11.81 | 20.87 | 16.93 | 7.87 | 18.90 | 14.17 | 6.61 | 18.70 | 9.84 | 14.96 | 11.81 | 1 |
| **HP2416C** | 21.13 | **HC2416C** | 24.12 | 18.89 x 11.81 | 25.47 | 17.17 | 9.84 | 22.83 | 14.17 | 8.35 | 22.64 | 9.84 | 18.90 | 11.81 | 1 |
| **HP3020D** | 32.28 | **HC3020**** | 36.02 | 22.83 x 15.74 | 29.41 | 21.10 | 11.81 | 26.77 | 18.11 | 10.28 | 26.57 | 13.78 | 22.83 | 15.75 | 1 |
| **HP3325D** | 39.00 | **HC3325D**** | 43.12 | 26.77 x 19.68 | 33.35 | 25.04 | 11.81 | 30.71 | 22.05 | 10.28 | 30.51 | 17.72 | 26.77 | 19.69 | 1 |

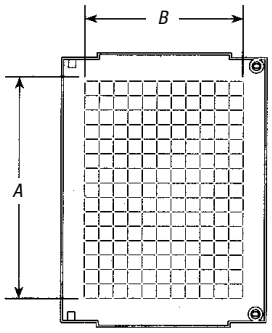
* HC Enclosures are IP 65 Rated. Clear window is glass.

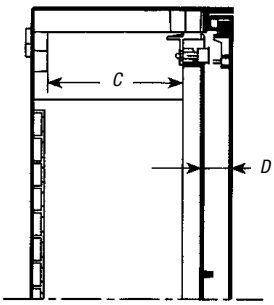
** This series of enclosures comes standard with body, lid and mounting rail kit.

Consult Customer Service for availability and delivery.

# Hinged Internal Door

- Internal fiberglass-reinforced polyester door assembly
- Grid pattern on the inside for quicker positioning of equipment
- Quick-locking ¼-turn entry




| CAT. NO. | A IN. | A (MM) | B IN. | B (MM) | C IN. | C (MM) | D IN. | D (MM) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|
| **PID1612** | 12.40 | (315) | 18.07 | (205) | 5.98 | (152) | 1.02 | (26) | 1 | 2.05 |
| **PID2016B** | 16.34 | (415) | 12.00 | (305) | 5.98 | (152) | 1.02 | (26) | 1 | 3.15 |
| **PID2416C** | 20.28 | (515) | 12.00 | (305) | 7.64 | (194) | 1.26 | (32) | 1 | 4.50 |
| **PID3020D** | 24.21 | (615) | 15.94 | (405) | 9.61 | (244) | 1.26 | (32) | 1 | 6.50 |
| **PID3325D** | 28.15 | (715) | 19.88 | (505) | 9.61 | (244) | 1.26 | (32) | 1 | 8.45 |

## Himeline® Enclosures

# A complete range of plates — directly fix to the enclosure supports or to the adjustable depth supports.

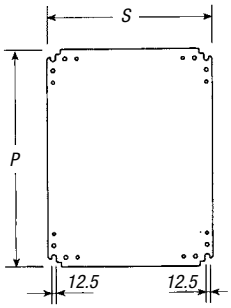
## HP Series Back Panels

Refer to the Enclosure Accessories section for back panel accessories.

Steel back panels are white-painted 14-gauge steel.

### Steel Back Panels

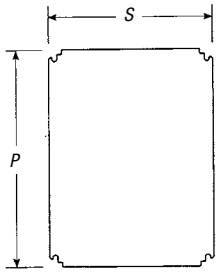
| CAT. NO. | TO FIT ENCLOSURES | THICKNESS IN. | THICKNESS (MM) | WEIGHT LBS. | WEIGHT (KG) | P (IN.) | S (IN.) |
|---|---|---|---|---|---|---|---|
| PMM1612 | HP1612B | .079 | (2) | 3.10 | (1.6) | 14.37 | 9.84 |
| PMM2016 | HP2016B | .079 | (2) | 6.15 | (2.5) | 18.30 | 13.78 |
| PMM2416 | HP2416C | .079 | (2) | 8.0 | (3.1) | 22.24 | 13.78 |
| PMM3020 | HP3020D | .079 | (2) | 12.04 | (4.6) | 26.18 | 17.72 |
| PMM3325 | HP3325D | .118 | (3) | 20.0 | (9.9) | 30.11 | 21.65 |




PVC back panels are made from ¼" PVC and meet UL94V-0.

### PVC Insulating Back Panels

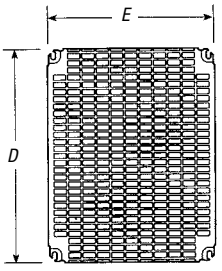
| CAT. NO. | TO FIT ENCLOSURES | WEIGHT LBS. | WEIGHT (KG) | P IN. | P (MM) | S IN. | S (MM) |
|---|---|---|---|---|---|---|---|
| PMB1612 | HP1612B | 1.10 | (0.5) | 14.37 | (365) | 9.84 | (250) |
| PMB2016 | HP2016B | 2.65 | (1.2) | 18.30 | (465) | 13.78 | (350) |
| PMB2416 | HP2416C | 3.09 | (1.4) | 22.24 | (565) | 13.78 | (350) |
| PMB3020 | HP3020D | 4.63 | (2.1) | 26.18 | (665) | 17.72 | (450) |
| PMB3325 | HP3325D | 6.62 | (3.0) | 30.11 | (765) | 21.65 | (550) |




Zinc, dichromated, coated-steel plates perforated for addition of electrical circuitry.

### PVC Insulating Back Panels

| CAT. NO. | TO FIT ENCLOSURES | WEIGHT LBS. | WEIGHT (KG) | D IN. | D (MM) | E IN. | E (MM) |
|---|---|---|---|---|---|---|---|
| PMR1612 | HP1612B | 1.54 | (0.7) | 13.74 | (349) | 9.8 | (251) |
| PMR2016 | HP2016B | 2.87 | (1.3) | 17.72 | (450) | 13.82 | (351) |
| PMR2416 | HP2416C | 3.53 | (1.6) | 21.85 | (555) | 13.82 | (351) |
| PMR3020 | HP3020D | 5.07 | (2.3) | 25.39 | (645) | 17.76 | (451) |
| PMR3325 | HP3325D | 7.06 | (3.2) | 29.53 | (750) | 21.69 | (551) |






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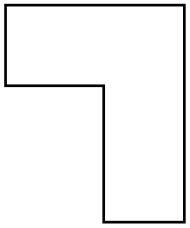
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# HP Series Accessories



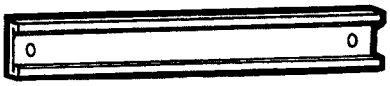
## Blanking Grommet

To close off openings on enclosure backs.



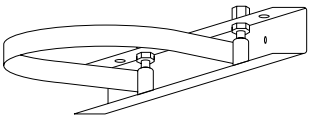
| CAT. NO. | FITS ENCLOSURE SIZES | DESCRIPTION | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| HPBNGB | 16 x 12 and 20 x 16 | Blanking Grommet | 10 | 1.00 |
| HPBNGC | 24 x 16, 30 x 20 and 33 x 25 | Blanking Grommet | 20 | 1.00 |

## 35mm Symmetrical DIN Rail



| CAT. NO. | TO FIT ENCLOSURES | WIDTH (IN.) | STD. CTN. |
|---|---|---|---|
| HPC0300 | HP1612B | 11.02 | 25 |
| HPC0400 | HP2016B, HP2416C | 14.96 | 2 |
| HPC0500 | HP3020D | 18.90 | 50 |

## Pole Mounting Set



| CAT. NO. | TO FIT ENCLOSURES | STD. CTN. |
|---|---|---|
| HPPF300 | HP1612B | 1 |
| HPPF400 | HP2016B, HP2416C | 1 |
| HPPF500 | HP3020D | 1 |
| HPPF600 | HP3325D | 1 |

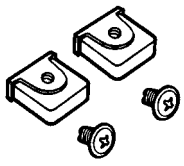
## Wall Mounting Set



| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| HPWMF | 10 | .1 |

*Includes brass inserts and installation tools.*

## Rail Mounting Insert



| CAT. NO. | FEATURES | STD. CTN. |
|---|---|---|
| HPRFK | Fits All Enclosures | 10 |

# HP Series Accessories

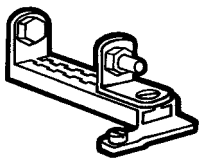
## Fixing Accessories for Slotted Plates



| FIXING NUT | | | FIXING BOLT WITH WASHER | | |
|---|---|---|---|---|---|
| CAT. NO. | TYPE OF THREAD | STD. CTN. | CAT. NO. | LENGTH (IN.) | STD. CTN. |
| HPFA4 | M4 | 8 | HPFB104 | .39 | 1000 |
| HPFA4 | M4 | 8 | HPFB164 | .63 | 1000 |
| HPFA5 | M5 | 8 | HPFB125 | .47 | 1000 |
| HPFA5 | M5 | 8 | HPFB185 | .71 | 1000 |
| HPFA6 | M6 | 8 | HPFB126 | .47 | 1000 |
| HPFA6 | M6 | 8 | HPFB186 | .71 | 1000 |

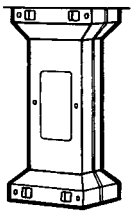
## Back Panel Depth Adjustable Supports

Supports designed to fit 7.87" (200mm), 9.84" (250mm), 11.81" (300mm) and 13.78" (350mm) deep enclosures. Self-positioning slots enable adjustment every .49" (12.5mm). Made of zinc dichromated coated steel.



| CAT. NO. | TO FIT ENCLOSURES | A IN./MM | B IN./MM | STD. CTN. |
|---|---|---|---|---|
| HPLM200 | HP1612B & HP2016B | 5.98/152 | 3.90/99 | 8 |
| HPLM250 | HP2416C | 8.07/205 | 4.13/105 | 15 |
| HPLM300 | HP3020D & HP3325D | 10.04/255 | 8.07/205 | 10 |

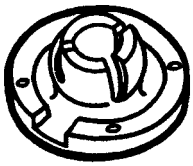
## Pedestal Mount



| CAT. NO. | TO FIT ENCLOSURES | STD. CTN. |
|---|---|---|
| HPSFS1 | HP2016B<br>HP2416C | 1 |

## For 3R Rating and condensation buildup.

## Draining Device*



| CAT. NO. | STD. CTN. |
|---|---|
| HPVEA9 | 30 |

*Factory installation available.*



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## Himeline® Enclosures

# HP Series Accessories

## NEMA 1 Rated only.

### Air Vents*

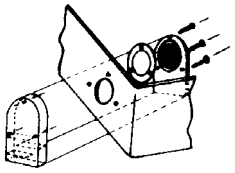


| CAT. NO. | STYLE | STD. CTN. |
|---|---|---|
| HPVM25 | For Fitting Outside of All Enclosures | 30 |
| HPVM35 | For Fitting Inside of All Enclosures | 30 |

*Factory installation available.*

## Enables any size enclosure to breathe, yet remain watertight.

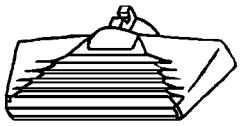
### Enclosure Ventilator*



| CAT. NO. | STD. CTN. |
|---|---|
| HVM27 | 15 |

*Factory installation available.*

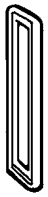
### Replacement Standard Handle



| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| HPRSH | 1 | .05 |

## For Himeline HP Enclosures HP3020D and HP3325D.

### Coupling Frame

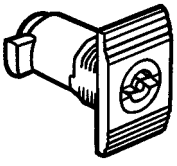


| CAT. NO. | STD. CTN. |
|---|---|
| HPBU | 1 |

## For Himeline® HP Enclosures.

## Locks

### Replacement Door Lock

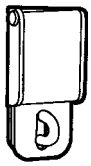


| CAT. NO. | STD. CTN. |
|---|---|
| HPRLA | 15 |

*For replacement handle, order HPRSH.*

### Padlocking Service

| CAT. NO. | STD. CTN. |
|---|---|
| HPPLH | 20 |



### Cylinder Key Lock (Keyed Alike)



| CAT. NO. | STD. CTN. |
|---|---|
| HPTPLM | 15 |

*For replacement key, order HPRKO.*

## Himeline® Enclosures

# HLA/HLS Series Enclosures



Carlon® Himeline® HLA/HLS Series Enclosures are large fiber-reinforced polyester cabinets ranging in sizes 20 x 20 x 17 to 50 x 40 x 17 and 20 x 20 x 12 to 50 x 40 x 12, respectively. They have operating temperatures of -50° to 150° C and can accommodate large devices and equipment for a wide range of applications, including junction and terminal wiring boxes, instruments and control housings. They are ideal for indoor/outdoor industrial, MRO and OEM applications, and offer superior strength and high resistance to corrosion, moisture, dust, oil and UV light, enabling them to withstand the harshest of environments.

The HLA/HLS Series Enclosures are fitted with a watertight gasket and are available in one- and two-door configurations. These cabinets have a closed top and bottom and the two-door version includes a central upright to maintain rigidity.

To maintain the watertight seal, the locking mechanism is positioned outside the gasketed area. A wide variety of accessories are available such as steel and non-metallic back panels, self-positioning panel depth adjusters and ventilator kits.

Carlon® Enclosures…the ideal alternative to expensive stainless steel enclosures.

**Features:**

- Fiber-reinforced polyester
- Temperature range of -58° to 302° F (-50° to 150° C)
- Indoor/outdoor applications
- Superior strength
- High resistance to harsh environments
- Watertight gasket seal
- One- and two-door configurations
- Locking mechanism and hinge are outside gasketed area
- Floor or wall mounted

**Applications:**

- Contain large devices and equipment
- Junction and terminal wiring boxes
- Instrument and control housings

**Standards:**

- IP 65 Rating (single-door versions only)
- 4/4X Rated (single-door versions only)
- UL® Listed



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# HLA/HLS Series Single- and Double-Hinged Cover Enclosures with Latches*

c UL us LISTED E108856 LR31146

## One-Door NEMA Types 1, 2, 3, 3R, 4, 4X, 5, 12, 13

### HLA One Door (17" Deep)

| CAT. NO. | DIMENSIONS (IN.) H | W | D | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|
| HLA2020 | 20 | 20 | 17 | 1 | 38.3 |
| HLA2030 | 20 | 30 | 17 | 1 | 53.9 |
| HLA3020 | 30 | 20 | 17 | 1 | 53.9 |
| HLA3030 | 30 | 30 | 17 | 1 | 60.7 |
| HLA4020 | 40 | 20 | 17 | 1 | 63.1 |
| HLA4030 | 40 | 30 | 17 | 1 | 81.0 |
| HLA5020 | 50 | 20 | 17 | 1 | 78.7 |
| HLA5030 | 50 | 30 | 17 | 1 | 96.7 |

** Consult Customer Service for availability and delivery.*

### HLS One Door (12" Deep)

| CAT. NO. | DIMENSIONS (IN.) H | W | D | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|
| HLS2020 | 20 | 20 | 12 | 1 | 29.8 |
| HLS2030 | 20 | 30 | 12 | 1 | 40.59 |
| HLS3020 | 30 | 20 | 12 | 1 | 49.5 |
| HLS3030 | 30 | 30 | 12 | 1 | 55.1 |
| HLS4020 | 40 | 20 | 12 | 1 | 56.81 |
| HLS4030 | 40 | 30 | 12 | 1 | 61.7 |
| HLS5020 | 50 | 20 | 12 | 1 | 67.56 |
| HLS5030 | 50 | 30 | 12 | 1 | 76.83 |

** Consult Customer Service for availability and delivery.*



## Two-Door NEMA Types 1, 2, 12, 13

### HLA Two Door (17" Deep)

| CAT. NO. | DIMENSIONS (IN.) H | W | D | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|
| HLA30402 | 30 | 40 | 17 | 1 | 81.0 |
| HLA40402 | 40 | 40 | 17 | 1 | 114.7 |
| HLA40502 | 40 | 50 | 17 | 1 | 135.0 |
| HLA50402 | 50 | 40 | 17 | 1 | 135.0 |

### HLS Two Door (12" Deep)

| CAT. NO. | DIMENSIONS (IN.) H | W | D | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|
| HLS30402 | 30 | 40 | 12 | 1 | 62.57 |
| HLS40402 | 40 | 40 | 12 | 1 | 87.59 |
| HLS40502 | 40 | 50 | 12 | 1 | 104.28 |
| HLS50402 | 50 | 40 | 12 | 1 | 104.28 |



## Himeline® Enclosures

# HLA/HLS Series Accessories

## Non-Metallic Thermosetting Plastic (Bakelite)

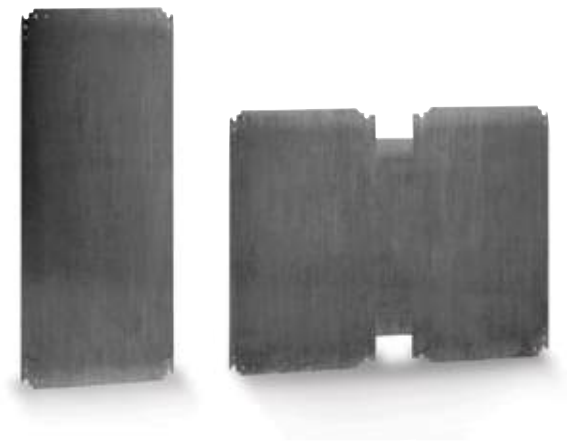
### One Door

| CAT. NO. | DIMENSIONS (IN.) H | W | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| LP2020BP | 15.4 | 14.8 | 1 | 2.1 |
| LP3020BP* | 25.2 | 14.8 | 1 | 3.0 |
| LP3030BP | 25.2 | 24.6 | 1 | 6.3 |
| LP4020BP | 35.0 | 14.8 | 1 | 5.2 |
| LP4030BP | 35.0 | 24.6 | 1 | 8.8 |
| LP5020BP | 44.3 | 14.8 | 1 | 6.7 |
| LP5030BP | 44.3 | 24.6 | 1 | 11.2 |

** Use Back Panel LP3020BP for Enclosures HLA2030, HLA3020, HLS2030 and HLS3020*

### Two Door

| CAT. NO. | DIMENSIONS (IN.) H | W | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| P30402BP | 25.2 | 34.4 | 1 | 8.8 |
| LP40402BP | 35.0 | 34.4 | 1 | 12.3 |
| LP40502BP | 35.0 | 44.3 | 1 | 16.1 |
| LP50402BP | 44.3 | 34.4 | 1 | 16.1 |



## Metal — Galvanized Steel

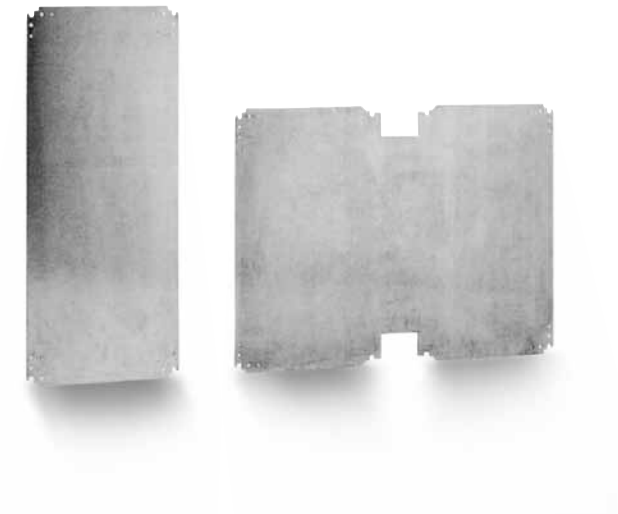
### One Door

| CAT. NO. | DIMENSIONS (IN.) H | W | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| LA2020BP | 15.4 | 14.8 | 1 | 5.6 |
| LA3020BP* | 25.2 | 14.8 | 1 | 8.6 |
| LA3030BP | 25.2 | 24.6 | 1 | 17.6 |
| LA4020BP | 35.0 | 14.8 | 1 | 14.6 |
| LA4030BP | 35.0 | 24.6 | 1 | 24.3 |
| LA5020BP | 44.3 | 14.8 | 1 | 19.4 |
| LA5030BP | 44.3 | 24.6 | 1 | 31.9 |

** Use Back Panel LA3020BP for Enclosures HLA2030, HLA3020, HLS2030 and HLS3020*

### Two Door

| CAT. NO. | DIMENSIONS (IN.) H | W | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| LA30402BP | 25.2 | 34.4 | 1 | 24.1 |
| LA40402BP | 35.0 | 34.4 | 1 | 33.8 |
| LA40502BP | 35.0 | 44.3 | 1 | 43.4 |
| LA50402BP | 44.3 | 34.4 | 1 | 43.7 |





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# Himeline® Enclosures

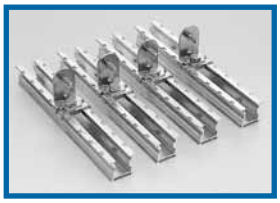


## Mounting Feet



| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| HLAMFSS | 1 each (set of 4) | .6 |

## Panel Adjuster Kit



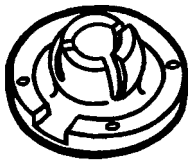
| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| HLABPA4 | 1 each (set of 4) | .31 |

## Padlock Device



| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| HLAPAD | 8 | .61 |

## Draining Device*

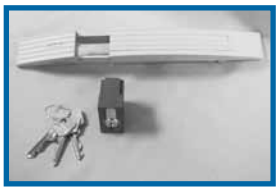


| CAT. NO. | STD. CTN. |
|---|---|
| HPVEA9 | 30 |

*For 3R Rating and condensation buildup.*

**Factory installation available.*

## Replacement Handle with Cylinder Key Lock



| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| HLATEL | 8 | .41 |

## Standard Replacement Bar Lock with Key



| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| HLATD | 30 | .21 |

## Replacement Handle with Pushbutton

| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|
| HLAHAN | 8 | .40 |

## Air Vents*

| CAT. NO. | STYLE | STD. WT. (LBS.) |
|---|---|---|
| HPVM25 | For Fitting Outside of All Enclosures | 1 |
| HPVM35 | For Fitting Inside of All Enclosures | 1 |



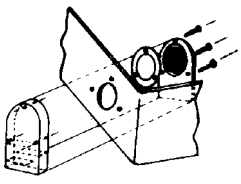
*NEMA 1 Rated only.*

**Factory installation available.*

## Enclosure Ventilator*

| CAT. NO. | STD. CTN. |
|---|---|
| HVM27 | 15 |

*Enables any size enclosure to breathe, yet remain watertight.*



**Factory installation available.*

## Himeline® Enclosures

# HLP Series Enclosure and Pedestal



Himeline® HLP Enclosures and Pedestals are designed to accommodate all types of electrical equipment for electrical distribution applications. The enclosure may be directly installed on the ground or on top of a pedestal, and the pedestal is approved for direct-burial applications. Both are manufactured using fiber-reinforced polyester to provide high-impact resistance and enable effortless modifications. And, each has an IP43 Self-Ventilated and IP54 Watertight rating and a temperature range of -58° F to 302° F.

**Enclosure Features:**

- High impact resistance
- Non-conductive and non-corrosive
- Fits all type of electrical equipment
- IP43 self-ventilated
- IP54 watertight
- One- and two-door configurations
- Install directly on the ground or on a pedestal
- Removable inner hinges for great access
- Doors open 180°

**Pedestal Features:**

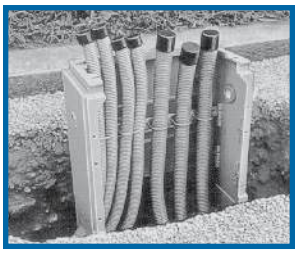
- Can be direct buried
- Non-conductive and non-corrosive
- Detachable upper front for easy access
- High impact resistance
- Auxiliary outlet on the side
- IP43 self-ventilated
- IP54 watertight
- Floor- or wall-mountable

**Material:**

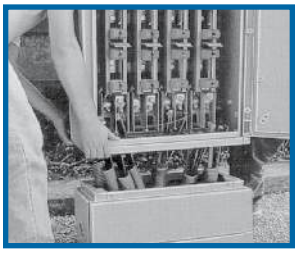
- Fiberglass-reinforced polyester

## Applications:











*Pedestal*



*Enclosure*



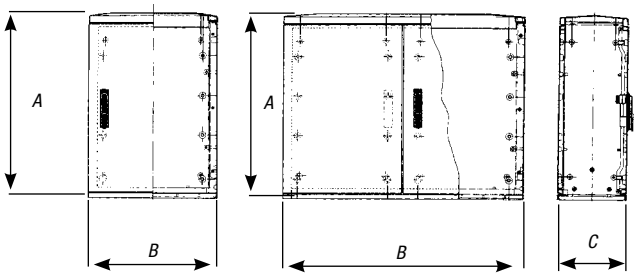
Thomas&Betts

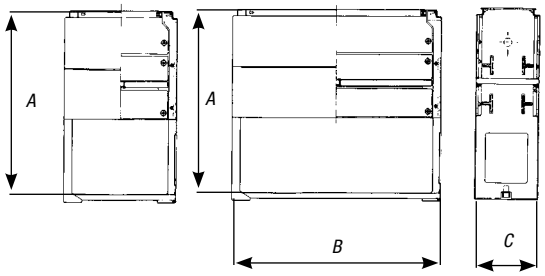
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**Technical Services**
Tel: 888.862.3289

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# Himeline® Enclosures




## Enclosures

| CAT. NO. | NO. OF DOORS | NO. OF LOCKS | DIMENSIONS (IN.) A HEIGHT | B WIDTH | C DEPTH | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|---|
| HLP3318 | 1 | 1 | 33.46 | 18.31 | 12.60 | 1 | 40.79 |
| HLP3323 | 1 | 1 | 33.46 | 23.23 | 12.60 | 1 | 48.50 |
| HLP3331 | 1 | 1 | 33.46 | 30.91 | 12.60 | 1 | 55.12 |
| HLP33442 | 2 | 1 | 33.46 | 43.90 | 12.60 | 1 | 77.16 |
| HLP33442L | 2 | 2 | 33.46 | 43.90 | 12.60 | 1 | 77.16 |

*Consult Customer Service for availability and delivery.*

## Pedestals

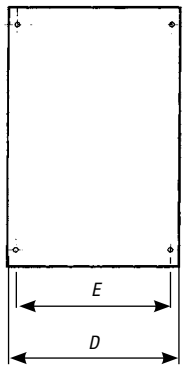
| CAT. NO. | DIMENSIONS (IN.) H | W | D | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|
| HLPED3318 | 35.43 | 18.31 | 12.20 | 1 | 33.10 |
| HLPED3323 | 35.43 | 23.23 | 12.20 | 1 | 37.48 |
| HLPED3331 | 35.43 | 30.91 | 12.20 | 1 | 44.10 |
| HLPED33442 | 35.43 | 43.90 | 12.20 | 1 | 55.12 |
| HLPED33442L | 35.43 | 43.90 | 12.20 | 1 | 55.12 |

*Consult Customer Service for availability and delivery.*

## Mounting Plates

| CAT. NO. | ENCLOSURE CAT. NO. | PEDESTAL CAT. NO. | # OF PLATES PER ENCL. | DIMENSIONS (IN.) D | E | THICKNESS (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|---|---|
| LA1412BP | HLP3318 | HLPED3318 | 1 | 14.02 | 11.97 | .20 | 1 | 4.41 |
| LA1816BP | HLP33442L | HLPED33442L | 2 | 17.64 | 15.59 | .20 | 1 | 11.02 |
| LA1916BP | HLP3323 | HLPED3323 | 1 | 18.94 | 16.89 | .20 | 1 | 6.00 |
| LA2725BP | HLP3331 | HLPED3331 | 1 | 26.61 | 24.57 | .20 | 1 | 8.38 |

*Consult Customer Service for availability and delivery.*




# HLP Series Accessories

## Gasket

| CAT. NO. | SIZE (IN.) H x W x D | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| HLP3318G | 33 x 18 x 12 | 1 | 2.2 |
| HLP3323G | 33 x 23 x 12 | 1 | 2.2 |
| HLP3331G | 33 x 31 x 12 | 1 | 2.2 |
| HLP3344G | 33 x 44 x 12 | 1 | 2.2 |

*Consult Customer Service for availability and delivery.*

# Slack and Splice Enclosures

Carlon's® state-of-the-art modification capabilities enable design of Slack and Splice Enclosures to meet specific application requirements.

**Features:**

- Slack and Splice Enclosures provide maximum protection of slack fiber and splice unit assemblies
- Eliminates need for difficult aerial and vault splicing
- Stores adequate slack fiber to facilitate splicing at ground level work station
- Enclosure sized to maintain minimum required radius of fiber optic cable
- Splice tube to accommodate industry-standard splice and tray assemblies (splice enclosure only)





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**Technical Services**
Tel: 888.862.3289

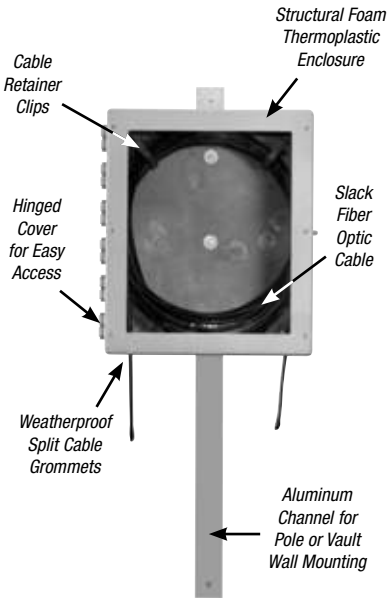
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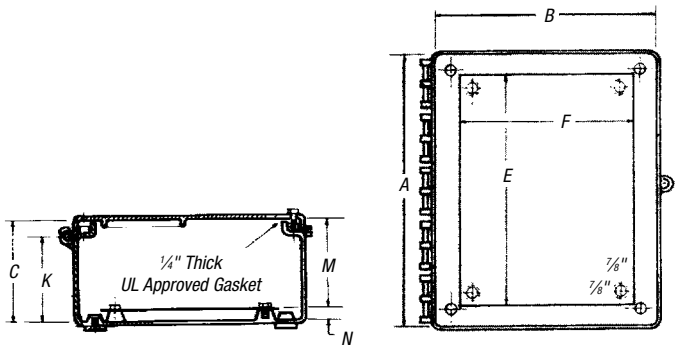
# Slack and Splice Enclosures

## Slack Enclosures



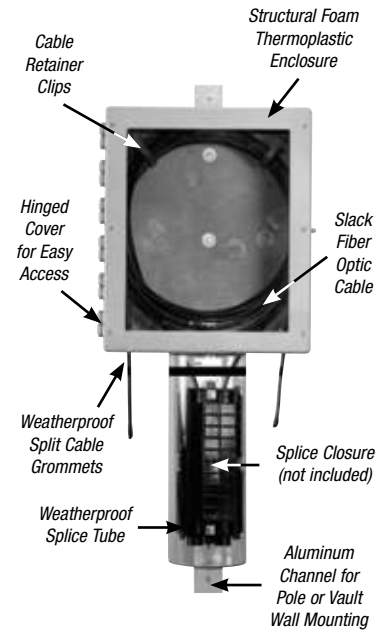
c UL us LISTED E108856 LR31146

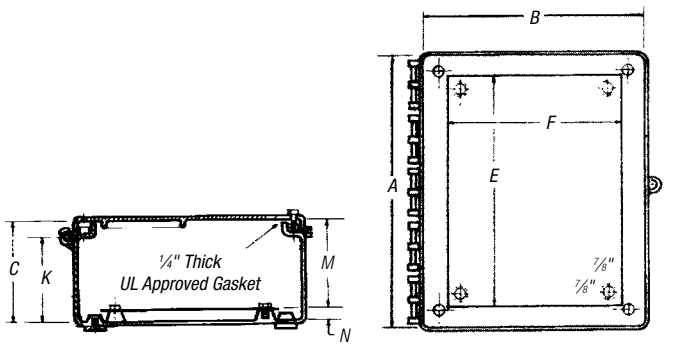



| CAT. NO. | INSIDE BOX SIZE (IN.) A x B x C | BOX OPENING (IN.) E x F | DIMENSIONS (IN.) K | M | N |
|---|---|---|---|---|---|
| SLK11 | 30 x 24 x 11½ | 27¼ x 21¼ | 10¼ | 10½ | 1 |
| SLK12 | 30 x 24 x 9½ | 27¼ x 21¼ | 8¼ | 8½ | 1 |
| SLK21 | 24 x 20 x 11½ | 21¼ x 17¼ | 10¼ | 10½ | 1 |
| SLK22 | 24 x 20 x 9½ | 21¼ x 17¼ | 8¼ | 8½ | 1 |
| SLK31 | 20 x 16 x 11½ | 17¼ x 13¼ | 10¼ | 10½ | 1 |
| SLK32 | 20 x 16 x 9½ | 17¼ x 13¼ | 10¼ | 10½ | 1 |

## Splice Enclosures




| CAT. NO. | INSIDE BOX SIZE (IN.) A x B x C | TUBE SIZE | BOX OPENING (IN.) E x F | DIMENSIONS (IN.) K | M | N |
|---|---|---|---|---|---|---|
| SPL111 | 30 x 24 x 11½ | 10 | 27¼ x 21¼ | 10¼ | 10½ | 1 |
| SPL122 | 30 x 24 x 9½ | 8 | 27¼ x 21¼ | 8¼ | 8½ | 1 |
| SPL211 | 24 x 20 x 11½ | 10 | 21¼ x 17¼ | 10¼ | 10½ | 1 |
| SPL222 | 24 x 20 x 9½ | 8 | 21¼ x 17¼ | 8¼ | 8½ | 1 |

*Technical Information*

# Factory Modifications for All Enclosures.

## Color-Molded Enclosures

All Circuit Safe® enclosures can be molded in a variety of colors. Minimum quantities for single shipment or releases against blanket orders are required.

## Painted/Silkscreened Enclosures

All enclosures can be painted, interior and exterior, or by special request. Enclosure covers can also be silkscreened on request.

## EMI/RFI Protection

For applications where Radio Frequency Interference is a factor, the interior can be coated with an acrylic base paint with a nickel filler. Windows can be covered with fine copper mesh.

## Other Modifications Available

Our factory is capable of modifying any of our enclosures to a customer's specifications. Factory's capabilities include:

- Precision milling of button holes, windows and pockets for keypad installations
- Hole tapping
- Ventilators
- Mounting bosses
- Access windows
- Hinged windows
- Mounted in-use weatherproof covers
- Handles for portable units
- Latches
- Enclosure coolers
- Cylinder locking systems
- And more…




*Painted JIC enclosure with painted back panel. Installed clear cover with handle and quick-release latch.*



*Color-molded JIC unit with addition of window and pushbuttons.*



*Molded junction box painted with addition of mounted weatherproof cover.*




*Painted JIC enclosure with pocket installed in cover for control pad.*



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*Technical Information*

# NEMA Types — Definitions Pertaining to Non-Hazardous Locations.

## Enclosures for Electrical Equipment

An enclosure is a surrounding case constructed to provide protection from accidental contact with the enclosed equipment and to provide protection to the enclosed equipment from specified environmental conditions. A brief description of the more common types of enclosures used by the electrical industry follows. For more information, see Table 110.28 of the National Electrical Code®.

### Type 1 Enclosure:

Intended for indoor use, primarily to provide protection against contact with enclosed equipment and a degree of protection against falling dirt.

### Type 2 Enclosure:

Intended for indoor use, primarily to provide a degree of protection against limited amounts of falling water and dirt.

### Type 3 Enclosure:

Intended for outdoor use, primarily to provide a degree of protection against wind-blown dust, rain, sleet and external ice formation.

### Type 3R Enclosure:

Intended for outdoor use, primarily to provide a degree of protection against falling rain, sleet and external ice formation.

### Type 3S Enclosure:

Intended for outdoor use, primarily to provide a degree of protection against wind-blown dust, rain and sleet, and to provide for operation of external mechanism when ice laden.

### Type 3X Enclosure:

Intended for outdoor use, primarily to provide a degree of protection against wind-blown dust, rain, sleet, external ice formation and corrosion.

### Type 3SX Enclosure:

Intended for outdoor use, primarily to provide a degree of protection against wind-blown dust, rain, sleet and corrosion, and to provide for operation of external mechanism when ice laden.

### Type 4 Enclosure:

Intended for indoor or outdoor use, primarily to provide a degree of protection against wind-blown dust and rain, splashing water and hose-directed water.

### Type 4X Enclosure:

Intended for indoor or outdoor use, primarily to provide a degree of protection against corrosion, wind-blown dust and rain, splashing water and hose-directed water.

### Type 6 Enclosure:

Intended for indoor or outdoor use, primarily to avoid a degree of protection against contact with enclosed equipment, falling dirt, hose-directed water, entry of water during occasional temporary submersion at a limited depth and external ice formation.

### Type 6P Enclosure:

Intended for indoor or outdoor use, primarily to provide a degree of protection against contact with enclosed equipment, falling dirt, hose-directed water, entry of water during prolonged submersion at a limited depth and external ice formation.

### Type 12 Enclosure:

Intended for indoor use, primarily to provide a degree of protection against dust, falling dirt and dripping non-corrosive liquids.

### Type 13 Enclosure:

Intended for indoor use, primarily to provide a degree of protection against dust, spraying of water, oil and non-corrosive coolant.

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

# International Standards IP Protection Classification Data.

The letters IP, followed by three characteristic numbers, symbolize the degree of protection.

## First Digit

**Protection Against Solid Bodies**

| IP | Test |
|---|---|
| 0 | No protection |
| 1 | Protection against solid bodies larger than 50mm (for example, accidentally touching with the hand) |
| 2 | Protection against solid bodies larger than 12mm (for example, a finger) |
| 3 | Protection against solid bodies larger than 2.5mm (tools, wires) |
| 4 | Protection against solid bodies larger than 1mm (tools, small wires) |
| 5 | Protection against dust (no harmful deposits) |
| 6 | Complete protection against dust |

## Second Digit

**Protection Against Liquids**

| IP | Test |
|---|---|
| 0 | No protection |
| 1 | Protection against vertical water drops condensation |
| 2 | Protection against water drops at up to 15° from the vertical |
| 3 | Protection against rain at up to 60° from the vertical |
| 4 | Protection against water splashing from all directions |
| 5 | Protection against water sprayed from a hose from all directions |
| 6 | Protection against water projections similar to sea wave splashes |
| 7 | Protection against the effect of immersion |
| 8 | Protection against effects of prolonged immersion under pressure |



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# Technical Information



## Engineering Properties of Enclosures

| PROPERTY | TEST METHOD | OPAQUE POLYCARBONATE COVERS & BOXES | CLEAR POLYCARBONATE COVER | FRP | NORYL |
|---|---|---|---|---|---|
| ***Thermal And Mechanical*** | | | | | |
| Temperature Range (°F) | — | -30° to 230° | -30° to 230° | -58° to 320° | -40° to 185° |
| Specific Gravity (oz.in$^3$) | ASTM D792 | 1.20 | 1.20 | 1.79 | .85 |
| Thermal Conductivity (BTU•in/hr•ft$^2$•°F) | ASTM D177 | 1.35 | 1.35 | 1.68 | .86 |
| Heat Deflection Temperature @ 264 PSI (°F) | ASTM D648 | 265 | 260 | 392 | 180 |
| Tensile Strength (PSI) | ASTM D638 | 8,800 | 9,000 | 13,000 | 3,400 |
| Flexural Strength (PSI) | ASTM D790 | 13,500 | 14,000 | 19,000 | 6,800 |
| Compressive Strength @ 10% Deformation (PSI) | ASTM D695 | 12,500 | 12,500 | 24,000 | 5,200 |
| Impact Strength IZOD Notched (ft.lbs./in.) | ASTM D256 | 12 | 12 | 12 | — |
| Water Absorption – 24 hrs. @ 73° F (%) | ASTM D570 | .15 | .15 | .17 | .06 |
| UV Rating | UL 746C | F1 | F1 | F2 | — |
| ***Electrical*** | | | | | |
| Dielectric Strength (VOLTS/MIL.) | ASTM D149 | 380 | 380 | 467 | 192 |
| Dielectric Constant | ASTM D150 | | | | |
| 60 Hz | | | 3.0 | 3.0 | — |
| 100 Hz | | | — | — | — |
| 106 Hz | | | 2.96 | 2.96 | — |
| Volume Resistivity @ 73° F (OHM-CM) | ASTM D257 | $>10^{16}$ | $>10^{16}$ | $2.0 \times 10^{15}$ | $1.0 \times 10^{16}$ |
| Arc Resistance (SEC) | ASTM D495 | 120 | 120 | 200+ | 67 |

## Clearance Holes for Carflex® Fittings or PVC Male Terminal Adapters

| CARFLEX FITTINGS & PVC MALE TERMINAL ADAPTERS TRADE SIZES | NOMINAL SIZE (IN.) | ACTUAL SIZE (IN.) | ACTUAL SIZE (MM) |
|---|---|---|---|
| ½ | .875 | .879 | 22.4 |
| ¾ | 1.093 | 1.107 | 28.2 |
| 1 | 1.344 | 1.357 | 34.6 |
| 1¼ | 1.813 | 1.699 | 43.2 |
| 1½ | 1.938 | 1.949 | 49.6 |
| 2 | 2.375 | 2.413 | 61.5 |
| 2½ | 2.875 | 2.914 | 74.0 |
| 3 | 3.5 | 3.539 | 89.8 |
| 3½ | 4 | 4.044 | 102.7 |
| 4 | 4.5 | 4.544 | 115.4 |
| 5 | 5.625 | 5.675 | 143.7 |

## Environmental Resistance Table: E–Excellent, G–Good, L–Limited, U–Unsatisfactory

***IMPORTANT:*** *These environmental resistance ratings are based upon tests where the specimens were placed in complete submergence in the reagent listed. Ratings listed in this chart apply to a 48-hour exposure period. (The information in this chart is to be used ONLY as a guide in selecting equipment for appropriate chemical compatibility. Before permanent installation, test the equipment with the chemicals and under the specific conditions of your application.)*

| CHEMICAL | **PVC** Himeline HE Opaque Cover w/ Base | **POLYCARBONATE** Circuit Safe NEMA Circuit Safe JIC Himeline HE Clear Cover w/Base Himeline HS Opaque w/ Clear Lids | **FRP** (Fiberglass Reinforced Polyester) Himeline HS — Bases Himeline HP Himeline HLA/HLS Himeline HLP | **NORYL** Circuit Safe Medium JIC |
|---|---|---|---|---|
| Acetaldehyde | U | L | — | — |
| Acetamide | U | U | — | — |
| Acetate Solvent | U | — | — | U |
| Acetic Acid | U | G | E | E |
| Acetic Acid 20% | U | E | E | E |
| Acetic Acid 80% | L | G | E | E |
| Acetic Acid, Glacial | U | G | E | E |
| Acetic Anhydride | U | U | E | U |
| Acetone | U | U | U | U |
| Acetyl Bromide | U | — | — | — |
| Acetyl Chloride (dry) | L | U | — | U |
| Acetylene | E | U | — | — |
| Acrylonitrile | G | U | — | — |
| Adipic Acid | E | — | — | — |
| Alcohols:Amyl | E | G | — | L |
| Alcohols:Benzyl | U | — | — | U |
| Alcohols:Butyl | E | E | — | E |
| Alcohols:Diacetone | G | — | — | E |
| Alcohols:Ethyl | L | G | — | E |
| Alcohols:Hexyl | E | — | — | E |
| Alcohols:Isobutyl | E | — | — | E |
| Alcohols:Isopropyl | E | E | — | E |
| Alcohols:Methyl | E | G | — | E |
| Alcohols:Octyl | — | — | — | E |
| Alcohols:Propyl | E | — | — | E |
| Aluminum Chloride | E | E | E | E |
| Aluminum Chloride 20% | E | E | — | E |
| Aluminum Fluoride | E | — | — | E |
| Aluminum Hydroxide | E | G | — | E |
| Aluminum Nitrate | G | E | — | — |
| Aluminum Potassium Sulfate 10% | E | E | — | E |
| Aluminum Potassium Sulfate 100% | E | E | — | E |
| Aluminum Sulfate | E | E | E | E |
| Amines | U | U | — | U |
| Ammonia 10% | G | U | — | E |
| Ammonia Nitrate | G | — | — | E |
| Ammonia, anhydrous | E | U | — | G |
| Ammonia, liquid | E | U | L | — |
| Ammonium Acetate | E | — | — | — |
| Ammonium Bifluoride | E | — | — | E |
| Ammonium Carbonate | E | — | L | E |
| Ammonium Caseinate | — | — | — | E |
| Ammonium Chloride | E | E | E | E |
| Ammonium Hydroxide | E | U | L | E |
| Ammonium Nitrate | E | — | L | E |
| Ammonium Oxalate | E | E | — | — |
| Ammonium Persulfate | E | — | — | E |
| Ammonium Phosphate, Dibasic | E | E | — | E |
| Ammonium Phosphate, Monobasic | E | — | — | E |
| Ammonium Phosphate, Tribasic | E | — | — | E |
| Ammonium Sulfate | E | E | E | E |
| Ammonium Sulfite | E | — | E | E |
| Amyl Acetate | U | U | L | U |
| Amyl Alcohol | E | G | L | L |
| Amyl Chloride | U | — | U | U |
| Aniline | L | U | U | U |
| Aniline Hydrochloride | G | U | — | — |
| Antifreeze | E | — | — | E |
| Antimony Trichloride | E | E | E | E |
| Aqua Regia (80% HCl, 20% $HNO_3$) | L | U | — | U |
| Aromatic Hydrocarbons | U | — | — | U |
| Arsenic Acid | E | E | — | E |
| Arsenic Salts | E | — | — | — |
| Asphalt | E | U | — | — |
| Barium Carbonate | E | E | E | E |
| Barium Chloride | E | E | E | E |
| Barium Cyanide | U | — | — | — |
| Barium Hydroxide | E | U | U | E |
| Barium Nitrate | E | U | — | E |
| Barium Sulfate | G | U | E | E |
| Barium Sulfide | E | — | E | E |
| Beer | E | E | — | E |
| Beet Sugar Liquids | E | — | — | E |
| Benzaldehyde | U | U | U | G |
| Benzene | L | U | L | U |
| Benzene Sulfonic Acid | E | U | E | E |
| Benzoic Acid | E | G | — | G |
| Benzol | — | U | — | G |
| Benzonitrile | — | E | — | — |
| Benzyl Chloride | — | — | — | U |
| Bleaching Liquors | E | — | — | — |
| Borax (Sodium Borate) | E | — | — | E |
| Boric Acid | E | — | E | E |
| Bromine | L | L | — | E |
| Butadiene | L | U | — | U |
| Butane | L | U | — | U |
| Butanol (Butyl Alcohol) | L | G | — | E |
| Butyl Amine | U | U | — | U |
| Butyl Ether | E | — | — | U |
| Butyl Phthalate | — | U | — | E |
| Butylacetate | U | U | U | G |
| Butylene | E | U | — | — |
| Butyric Acid | G | U | — | U |
| Calcium Bisulfate | — | U | — | — |
| Calcium Bisulfide | E | — | — | E |
| Calcium Bisulfite | G | U | — | E |



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# Technical Information

## Environmental Resistance Table: E–Excellent, G–Good, L–Limited, U–Unsatisfactory

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|---|---|---|---|---|
| Calcium Carbonate | E | L | E | E |
| Calcium Chlorate | G | — | E | — |
| Calcium Chloride | L | — | E | E |
| Calcium Hydroxide | G | U | U | E |
| Calcium Hypochlorite | G | U | L | E |
| Calcium Nitrate | E | E | E | E |
| Calcium Oxide | G | — | — | E |
| Calcium Sulfate | G | E | E | E |
| Calgon | — | — | — | E |
| Cane Juice | E | — | — | — |
| Carbolic Acid (Phenol) | U | U | — | U |
| Carbon Bisulfide | U | — | L | — |
| Carbon Dioxide (dry) | E | — | — | E |
| Carbon Dioxide (wet) | E | — | — | E |
| Carbon Disulfide | U | U | — | U |
| Carbon Monoxide | E | — | — | E |
| Carbon Tetrachloride | U | U | E | U |
| Carbon Tetrachloride (dry) | — | — | — | U |
| Carbon Tetrachloride (wet) | — | — | — | U |
| Carbon Disulfide | U | U | — | U |
| Carbon Monoxide | E | — | — | E |
| Carbon Tetrachloride | U | U | E | U |
| Carbon Tetrachloride (dry) | — | — | — | U |
| Carbon Tetrachloride (wet) | — | — | — | U |
| Carbonated Water | E | — | — | E |
| Carbonic Acid | E | E | — | E |
| Catsup | E | — | — | E |
| Chloric Acid | E | — | — | U |
| Chlorine (dry) | U | — | — | G |
| Chlorine Water | E | — | E | L |
| Chlorine, Anhydrous Liquid | U | L | — | G |
| Chloroacetic Acid | G | U | — | — |
| Chlorobenzene (Mono) | U | U | U | U |
| Chlorobromomethane | U | — | — | — |
| Chloroform | U | U | — | U |
| Chlorosulfonic Acid | U | L | — | U |
| Chocolate Syrup | — | E | — | E |
| Chromic Acid 10% | E | G | E | E |
| Chromic Acid 30% | E | L | — | U |
| Chromic Acid 5% | E | G | — | E |
| Chromic Acid 50% | U | U | — | U |
| Chromium Salts | E | — | — | — |
| Citric Acid | G | E | E | E |
| Citric Oils | — | — | — | E |
| Clorox® (Bleach) | E | — | — | E |
| Copper Chloride | E | — | — | E |
| Copper Cyanide | E | U | — | E |
| Copper Fluoborate | E | — | — | — |

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|---|---|---|---|---|
| Copper Nitrate | E | U | — | E |
| Copper Sulfate >5% | E | E | — | E |
| Copper Sulfate 5% | E | E | — | E |
| Cresols | U | U | U | U |
| Cresylic Acid | U | U | — | — |
| Cupric Acid | E | E | — | E |
| Cyclohexane | U | G | — | U |
| Cyclohexanone | U | U | — | U |
| Detergents | E | E | — | E |
| Diacetone Alcohol | U | U | — | — |
| Dichlorobenzene | U | U | — | — |
| Dichloroethane | U | U | — | E |
| Diesel Fuel | E | E | — | U |
| Diethyl Ether | U | U | — | — |
| Diethylamine | U | U | — | — |
| Diethylene Glycol | L | G | — | E |
| Dimethyl Aniline | U | U | U | U |
| Dimethyl Formamide | U | U | — | U |
| Diphenyl Oxide | U | — | — | — |
| Dyes | G | — | — | E |
| Epsom Salts (Magnesium Sulfate) | E | E | — | E |
| Ethane | E | — | — | — |
| Ethanol | L | G | — | E |
| Ethanolamine | U | — | — | E |
| Ether | U | — | L | U |
| Ethyl Acetate | U | U | L | E |
| Ethyl Benzoate | U | U | — | E |
| Ethyl Chloride | U | U | L | U |
| Ethyl Ether | U | — | U | U |
| Ethylene Bromide | U | U | — | — |
| Ethylene Chloride | U | U | — | U |
| Ethylene Chlorohydrin | U | U | E | — |
| Ethylene Diamine | U | E | — | U |
| Ethylene Dichloride | U | U | U | U |
| Ethylene Glycol | E | G | E | E |
| Ethylene Oxide | U | L | — | E |
| Fatty Acids | E | G | — | E |
| Ferric Chloride | E | E | E | E |
| Ferric Nitrate | E | E | E | E |
| Ferric Sulfate | E | E | E | E |
| Ferrous Chloride | E | U | E | E |
| Ferrous Sulfate | E | E | E | E |
| Fluoboric Acid | E | — | — | E |
| Fluorine | U | L | — | — |
| Fluosilicic Acid | U | E | — | E |
| Formaldehyde 100% | E | E | — | E |
| Formaldehyde 40% | E | E | E | E |
| Formic Acid | E | E | L | E |

## Technical Information

# Environmental Resistance Table: E–Excellent, G–Good, L–Limited, U–Unsatisfactory

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|---|---|---|---|---|
| Freon 113 | G | G | — | U |
| Freon 12 | E | — | — | U |
| Freon 22 | E | — | — | G |
| Freon TF | G | — | — | — |
| Freon® 11 | E | — | — | G |
| Fuel Oils | E | G | — | G |
| Furan Resin | E | — | — | — |
| Furfural | U | U | L | U |
| Gallic Acid | G | — | — | E |
| Gasoline (high-aromatic) | E | E | — | G |
| Gasoline, leaded, ref. | G | E | E | G |
| Gasoline, unleaded | L | E | — | U |
| Gelatin | G | — | — | E |
| Glucose | E | E | E | E |
| Glue, P.V.A. | L | — | — | — |
| Glycerin | E | E | E | E |
| Glycolic Acid | G | — | — | — |
| Grease | E | — | — | — |
| Heptane | L | G | E | G |
| Hexane | G | U | U | G |
| Hydraulic Oil (Petro) | E | — | — | — |
| Hydraulic Oil (Synthetic) | E | — | — | — |
| Hydrazine | — | U | — | — |
| Hydrobromic Acid 100% | E | — | — | G |
| Hydrobromic Acid 20% | G | — | — | G |
| Hydrochloric Acid 100% | U | U | — | E |
| Hydrochloric Acid 20% | E | G | E | E |
| Hydrochloric Acid 37% | G | U | L | E |
| Hydrochloric Acid, Dry Gas | E | — | — | E |
| Hydrocyanic Acid | G | — | — | E |
| Hydrocyanic Acid (Gas 10%) | E | G | — | L |
| Hydrofluoric Acid 100% | L | U | — | U |
| Hydrofluoric Acid 20% | G | U | — | L |
| Hydrofluoric Acid 50% | G | U | — | U |
| Hydrofluoric Acid 75% | L | U | — | U |
| Hydrofluosilicic Acid 100% | G | — | — | G |
| Hydrofluosilicic Acid 20% | E | — | — | G |
| Hydrogen Gas | E | E | — | E |
| Hydrogen Peroxide 10% | E | E | — | E |
| Hydrogen Peroxide 100% | E | E | — | E |
| Hydrogen Peroxide 30% | E | E | E | E |
| Hydrogen Peroxide 50% | E | E | E | — |
| Hydrogen Sulfide (aqua) | G | E | — | E |
| Hydrogen Sulfide (dry) | E | — | — | — |
| Hydroquinone | G | — | — | — |
| Hydroxyacetic Acid 70% | U | — | — | — |
| Ink | L | — | — | — |
| Iodine | E | — | — | L |

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|---|---|---|---|---|
| Iodine (in alcohol) | E | — | — | — |
| Iodoform | E | — | — | — |
| Isooctane | E | G | — | U |
| Isopropyl Acetate | U | U | — | — |
| Isopropyl Ether | G | U | — | — |
| Isotane | E | — | — | — |
| Jet Fuel (JP3, JP4, JP5) | L | E | — | U |
| Kerosene | E | U | — | U |
| Ketones | U | U | — | U |
| Lacquer Thinners | U | G | — | U |
| Lacquers | U | U | — | U |
| Lactic Acid | G | G | E | E |
| Lard | E | E | — | E |
| Lead Acetate | G | — | — | E |
| Lead Nitrate | E | — | — | E |
| Lead Sulfamate | G | E | — | — |
| Lime | G | — | — | — |
| Linoleic Acid | E | — | — | — |
| Lithium Chloride | U | G | — | — |
| Lithium Hydroxide | — | U | — | — |
| Lubricants | G | E | — | L |
| Lye: $Ca(OH)_2$ Calcium Hydroxide | G | U | — | E |
| Lye: KOH Potassium Hydroxide | G | U | — | E |
| Lye: NaOH Sodium Hydroxide | E | U | — | E |
| Epsom Salts (Magnesium Sulfate) | E | E | — | E |
| Magnesium Bisulfate | E | E | — | — |
| Magnesium Carbonate | G | E | E | E |
| Magnesium Chloride | G | E | E | E |
| Magnesium Hydroxide | E | E | G | E |
| Magnesium Nitrate | E | E | — | E |
| Magnesium Oxide | — | — | — | — |
| Magnesium Sulfate (Epsom Salts) | E | E | E | E |
| Maleic Acid | E | — | — | E |
| Malic Acid | E | — | — | — |
| Manganese Sulfate | L | E | — | E |
| Mayonnaise | U | — | — | — |
| Melamine | U | — | — | — |
| Mercuric Chloride (dilute) | E | E | — | E |
| Mercuric Cyanide | E | — | — | — |
| Mercurous Nitrate | E | E | — | E |
| Mercury | E | U | — | E |
| Methane | G | — | — | — |
| Methanol (Methyl Alcohol) | E | G | L | E |
| Methyl Acetate | U | U | — | — |
| Methyl Acetone | U | — | — | — |
| Methyl Alcohol 10% | E | G | — | E |
| Methyl Bromide | U | — | — | — |
| Methyl Butyl Ketone | E | U | — | — |



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|---|---|---|---|---|
| Methyl Cellosolve | U | U | — | — |
| Methyl Chloride | U | U | — | U |
| Methyl Dichloride | E | — | — | — |
| Methyl Ethyl Ketone | U | U | E | U |
| Methyl Isobutyl Ketone | U | U | — | U |
| Methyl Isopropyl Ketone | U | U | — | U |
| Methyl Methacrylate | E | — | — | — |
| Methylamine | U | — | — | — |
| Methylene Chloride | U | U | U | U |
| Mineral Spirits | E | L | — | E |
| Monochloroacetic acid | — | U | — | — |
| Monoethanolamine | U | — | — | E |
| Morpholine | — | U | — | U |
| Motor oil | G | E | — | E |
| Naphtha | E | G | E | U |
| Naphthalene | U | — | — | U |
| Natural Gas | E | — | — | — |
| Nickel Chloride | E | E | — | E |
| Nickel Nitrate | E | U | — | E |
| Nickel Sulfate | E | E | — | E |
| Nitrating Acid (<15% $HNO_3$) | U | — | — | — |
| Nitrating Acid (>15% $H_2SO_4$) | U | — | — | — |
| Nitrating Acid (_1% Acid) | U | — | — | — |
| Nitrating Acid (_15% $H_2SO_4$) | U | — | — | — |
| Nitric Acid (20%) | E | G | G | G |
| Nitric Acid (50%) | G | G | — | G |
| Nitric Acid (50%) | G | G | — | G |
| Nitric Acid (5–10%) | E | E | — | E |
| Nitric Acid (Concentrated) | G | L | — | G |
| Nitrobenzene | U | U | L | U |
| Nitromethane | G | U | — | U |
| Nitrous Acid | E | — | — | — |
| Nitrous Oxide | E | — | — | — |
| Oil: Aniline | U | — | — | U |
| Oil: Citric | G | E | — | E |
| Oil: Creosote | L | — | — | U |
| Oil: Diesel Fuel (20, 30, 40, 50) | G | — | — | U |
| Oil: Diesel Fuel (20, 30, 40, 50) | G | — | — | U |
| Oil: Hydraulic Oil (Petro) | E | — | — | — |
| Oil: Hydraulic Oil (Synthetic) | E | — | — | — |
| Oil: Mineral | G | G | — | E |
| Oil: Olive | L | E | — | E |
| Oil: Orange | L | L | — | — |
| Oil: Pine | U | E | — | — |
| Oil: Rosin | L | — | — | — |
| Oil: Silicone | E | — | — | E |
| Oil: Transformer | G | — | — | — |
| Oil: Turbine | E | — | — | — |

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|---|---|---|---|---|
| Oleic Acid | L | — | E | E |
| Oleum 100% | U | — | — | E |
| Oleum 25% | U | — | — | — |
| Oxalic Acid (cold) | G | — | E | E |
| Ozone | G | E | — | — |
| Palmitic Acid | G | — | — | — |
| Paraffin | G | E | — | E |
| Pentane | E | E | — | — |
| Perchloric Acid | L | — | — | — |
| Perchloroethylene | L | U | — | U |
| Petrolatum | G | — | — | — |
| Petroleum | — | — | — | U |
| Phenol (10%) | L | G | L | U |
| Phenol (Carbolic Acid) | U | U | — | U |
| Phosphoric Acid (>40%) | G | E | — | E |
| Phosphoric Acid (crude) | G | E | — | E |
| Phosphoric Acid (molten) | U | — | — | — |
| Phosphoric Acid (_40%) | G | E | — | E |
| Phosphoric Acid Anhydride | — | U | — | — |
| Phosphorus | E | — | — | — |
| Phosphorus Trichloride | U | L | — | — |
| Photographic Developer | E | E | — | E |
| Photographic Solutions | E | E | — | E |
| Phthalic Anhydride | U | E | — | — |
| Picric Acid | U | U | — | — |
| Potash (Potassium Carbonate) | E | — | L | E |
| Potassium Bicarbonate | E | — | — | E |
| Potassium Bromide | E | E | — | E |
| Potassium Chlorate | E | E | — | E |
| Potassium Chloride | E | E | E | E |
| Potassium Chromate | E | — | E | E |
| Potassium Cyanide Solutions | E | — | — | E |
| Potassium Dichromate | E | E | — | E |
| Potassium Ferricyanide | E | — | E | E |
| Potassium Ferrocyanide | E | — | E | E |
| Potassium Hydroxide (Caustic Potash) | E | U | L | E |
| Potassium Hypochlorite | G | — | — | — |
| Potassium Iodide | E | — | — | — |
| Potassium Nitrate | E | E | E | E |
| Potassium Oxalate | — | — | — | — |
| Potassium Permanganate | E | E | E | E |
| Potassium Sulfate | E | E | E | E |
| Potassium Sulfide | E | — | — | E |
| Propane (liquefied) | E | L | — | E |
| Propylene | G | — | — | — |
| Propylene Glycol | L | G | — | — |
| Pyridine | U | U | — | G |
| Pyrogallic Acid | E | — | — | — |

## Environmental Resistance Table: E–Excellent, G–Good, L–Limited, U–Unsatisfactory

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|---|---|---|---|---|
| Resorcinal | L | G | — | — |
| Rosins | L | — | — | — |
| Salicylic Acid | G | E | — | — |
| Salt Brine (NaCl saturated) | E | E | — | E |
| Sea Water | E | E | — | E |
| Silicone | E | E | — | E |
| Silver Bromide | — | — | — | E |
| Silver Nitrate | E | E | — | E |
| Soap Solutions | E | E | — | E |
| Soda Ash (see Sodium Carbonate) | E | E | — | E |
| Sodium Acetate | G | E | E | E |
| Sodium Aluminate | — | — | — | E |
| Sodium Benzoate | G | E | — | — |
| Sodium Bicarbonate | E | E | E | E |
| Sodium Bisulfate | E | E | — | E |
| Sodium Bisulfite | E | E | — | E |
| Sodium Borate (Borax) | E | E | — | E |
| Sodium Bromide | G | — | E | E |
| Sodium Carbonate | E | E | — | E |
| Sodium Chlorate | E | E | E | E |
| Sodium Chloride | E | E | E | E |
| Sodium Chromate | — | E | — | E |
| Sodium Cyanide | E | — | — | E |
| Sodium Ferrocyanide | E | — | E | E |
| Sodium Fluoride | E | — | — | E |
| Sodium Hydrosulfite | L | — | — | — |
| Sodium Hydroxide (20%) | E | E | U | E |
| Sodium Hydroxide (50%) | E | U | U | E |
| Sodium Hydroxide (80%) | E | U | U | E |
| Sodium Hypochlorite (<20%) | E | L | L | E |
| Sodium Hypochlorite (100%) | G | — | — | E |
| Sodium Metaphosphate | E | — | — | — |
| Sodium Metasilicate | E | — | — | — |
| Sodium Nitrate | E | — | U | E |
| Sodium Perborate | E | — | — | E |
| Sodium Peroxide | G | E | — | — |
| Sodium Polyphosphate | E | — | — | E |
| Sodium Silicate | E | — | — | E |
| Sodium Sulfate | E | E | E | E |
| Sodium Sulfide | E | U | U | E |
| Sodium Sulfite | E | — | E | E |
| Sodium Tetraborate | E | — | — | E |
| Sodium Thiosulfate (hypo) | E | U | — | E |
| Stannic Chloride | E | E | — | E |
| Stannic Fluoborate | — | — | — | E |
| Stannous Chloride | E | — | — | E |
| Stearic Acid | G | E | — | E |
| Stoddard Solvent | L | E | — | U |
| Styrene | U | U | — | E |

| CHEMICAL | **PVC** Himeline HE Opaque Cover w/Base | **POLYCARBONATE** Circuit Safe NEMA Circuit Safe JIC Himeline HE Clear Cover w/Base Himeline HS Opaque w/Clear Lids | **FRP** (Fiberglass Reinforced Polyester) Himeline HS — Bases Himeline HP Himeline HLA/HLS Himeline HLP | **NORYL** Circuit Safe Medium JIC |
|---|---|---|---|---|
| Sulfate (Liquors) | G | — | — | — |
| Sulfur Chloride | L | — | — | E |
| Sulfur Dioxide | E | — | — | E |
| Sulfur Dioxide (dry) | E | E | — | E |
| Sulfur Hexafluoride | G | — | — | — |
| Sulfur Trioxide | E | — | — | U |
| Sulfur Trioxide (dry) | E | — | — | U |
| Sulfuric Acid (<10%) | E | E | E | E |
| Sulfuric Acid (10–75%) | E | G | U | E |
| Sulfuric Acid (75–100%) | U | U | — | E |
| Sulfuric Acid (cold concentrated) | U | — | — | E |
| Sulfuric Acid (hot concentrated) | U | U | — | U |
| Sulfurous Acid | E | — | — | E |
| Tallow | — | — | — | E |
| Tannic Acid | E | L | — | E |
| Tanning Liquors | E | — | — | E |
| Tartaric Acid | E | — | E | E |
| Tetrachloroethane | L | — | — | U |
| Tetrachloroethylene | U | U | — | U |
| Tetrahydrofuran | U | U | L | U |
| Tin Salts | E | — | — | — |
| Toluene (Toluol) | U | U | — | U |
| Trichloroacetic Acid | G | U | — | — |
| Trichloroethane | L | U | — | U |
| Trichloroethylene | U | — | U | U |
| Trichloropropane | — | — | — | U |
| Tricresylphosphate | U | — | — | E |
| Triethylamine | G | — | — | G |
| Trisodium Phosphate | E | — | — | E |
| Turpentine | U | U | E | U |
| Urea | U | U | L | E |
| Uric Acid | E | — | — | — |
| Varnish | U | — | — | U |
| Vinegar | G | E | E | E |
| Vinyl Acetate | U | — | — | — |
| Vinyl Chloride | U | — | — | — |
| Water, Acid, Mine | G | G | — | — |
| Water, Deionized | E | — | — | E |
| Water, Distilled | E | E | — | E |
| Beet Sugar Liquids | E | — | — | E |
| Water, Fresh | G | E | — | E |
| Water, Salt | G | E | — | E |
| Whiskey & Wines | E | E | — | E |
| White Liquor (Pulp Mill) | E | — | — | E |
| White Water (Paper Mill) | E | — | — | U |
| Xylene | U | U | E | G |
| Zinc Chloride | G | E | E | E |
| Zinc Hydrosulfite | — | — | — | E |
| Zinc Sulfate | E | E | E | E |



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Carlon®

# Carlon® Electrical Non-Metallic Tubing (ENT) System

**In this section...**



## Carlon® Electrical Non-Metallic Tubing (ENT) System


Electrical Non-Metallic Tubing ..... A-328
Boxes and Accessories ..... A-329–A-338
Flexible Raceway Systems ..... A-339–A-347
Flexible Raceway System Accessories ..... A-348–A-352
Technical Information ..... A-353–A-354


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## Electrical Non-Metallic Tubing

# Flex-Plus® ENT

Flex-Plus® ENT is a non-metallic flexible raceway for use in walls, floors and non-plenum ceilings. It's lightweight, hand-bendable and free from sharp edges, which reduces installation time and saves money.

**Options:**

- Sizes ½" through 2"
- Colors can designate different voltages. Examples:
  – Yellow color for communication circuits and signaling cable
  – Red color for fire alarm circuits
  – Blue color for power circuits
- Packaging: coils or reels



E73317 LR83580 FT-4 Rated where noted by

### Standard Stock — Reels

| CAT. NO. | SIZE (IN.) | COLOR | NOM. I.D. (IN.) | NOM. O.D. (IN.) | PILL TAPE | MIN. BEND RADIUS (IN.) | REEL SIZE (IN.) (F X W) | REEL TYPE (W=WOOD) | REEL LENGTH | REEL WT. (LBS.) | WT. PER 100 FT. (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12005AK-001 | ½ | Blue | .56 | .84 | Empty | 6 | 36 x 24 | W | 1500 | 40 | 10 |
| 1205AKY-001 | ½ | Yellow | .56 | .84 | Empty | 6 | 36 x 24 | W | 1500 | 40 | 10 |
| 1205AKR-001 | ½ | Red | .56 | .84 | Empty | 6 | 36 x 24 | W | 1500 | 40 | 10 |
| 12005AKC-001 | ½ | Blue | .56 | .84 | Empty | 6 | 36 x 24 | W | 1500 | 40 | 10 |
| 12007AA-001 | ¾ | Blue | .76 | 1.05 | Empty | 6 | 36 x 24 | W | 1000 | 40 | 14 |
| 1207AAY-001 | ¾ | Yellow | .76 | 1.05 | Empty | 6 | 36 x 24 | W | 1000 | 40 | 14 |
| 1207AAR-001 | ¾ | Red | .76 | 1.05 | Empty | 6 | 36 x 24 | W | 1000 | 40 | 14 |
| 1207AAC-001 | ¾ | Blue | .76 | 1.05 | Empty | 6 | 36 x 24 | W | 1000 | 40 | 14 |
| 12008-750 | 1 | Blue | 1.00 | 1.315 | Empty | 6 | 36 x 24 | W | 750 | 40 | 20 |
| 12008Y-750 | 1 | Yellow | 1.00 | 1.315 | Empty | 6 | 36 x 24 | W | 750 | 40 | 20 |
| 12008R-750 | 1 | Red | 1.00 | 1.315 | Empty | 6 | 36 x 24 | W | 750 | 40 | 20 |
| 12008C-750 | 1 | Blue | 1.00 | 1.315 | Empty | 6 | 36 x 24 | W | 750 | 40 | 20 |
| 12009-750 | 1¼ | Blue | 1.402 | 1.66 | Empty | 7 | 48 x 32 | W | 750 | 90 | 19 |
| 12010-750 | 1½ | Blue | 1.554 | 1.90 | Empty | 8¼ | 48 x 32 | W | 750 | 90 | 39 |
| 12010Y-750 | 1½ | Yellow | 1.554 | 1.90 | Empty | 8¼ | 48 x 32 | W | 750 | 90 | 39 |
| 12011-500 | 2 | Blue | 2.030 | 2.375 | Empty | 9½ | 48 x 32 | W | 500 | 90 | 32 |
| 12011R-500 | 2 | Red | 2.030 | 2.375 | Empty | 9½ | 48 x 32 | W | 500 | 90 | 32 |
| 12011Y-500 | 2 | Yellow | 2.030 | 2.375 | Empty | 9½ | 48 x 32 | W | 500 | 90 | 32 |

** 1¼"–2" available in yellow & red, made to order; consult factory.*

*Canada Only*

### Standard Stock — Coils

| CAT. NO. | SIZE (IN.) | COLOR | NOM. I.D. (IN.) | NOM. O.D. (IN.) | PILL TAPE | MIN. BEND RADIUS (IN.) | COIL LENGTH (FT.) | WT. PER 100 FT. (LBS.) |
|---|---|---|---|---|---|---|---|---|
| 12005-200 | ½ | Blue | .56 | .84 | Empty | 6 | 200 | 10 |
| 12005Y-200 | ½ | Yellow | .56 | .84 | Empty | 6 | 200 | 10 |
| 12005R-200 | ½ | Red | .56 | .84 | Empty | 6 | 200 | 10 |
| 12005C-370 | ½ | Blue | .56 | .84 | Empty | 6 | 200 | 10 |
| 12007-100 | ¾ | Blue | .76 | 1.05 | Empty | 6 | 100 | 14 |
| 12007Y-100 | ¾ | Yellow | .76 | 1.05 | Empty | 6 | 100 | 14 |
| 12007R-100 | ¾ | Red | .76 | 1.05 | Empty | 6 | 100 | 14 |
| 12007C-240 | ¾ | Blue | .76 | 1.05 | Empty | 6 | 100 | 14 |
| 12008-100 | 1 | Blue | 1.00 | 1.315 | Empty | 6 | 100 | 22 |
| 12008Y-100 | 1 | Yellow | 1.00 | 1.315 | Empty | 6 | 100 | 22 |
| 12008R-100 | 1 | Red | 1.00 | 1.315 | Empty | 6 | 100 | 22 |
| 12008C-160 | 1 | Blue | 1.00 | 1.315 | Empty | 6 | 100 | 22 |

*Canada Only*

### 10-ft. Lengths

| CAT. NO. | SIZE (IN.) | COLOR | NOM. I.D. (IN.) | NOM. O.D. (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|
| 12005-UPC | ½ | Blue | .56 | .84 | 10 ft. | 1.02 |
| 12007-UPC | ¾ | Blue | .76 | 1.05 | 10 ft. | 1.46 |
| 12008-010 | 1 | Blue | 1.00 | 1.315 | 10 ft. | 2.93 |

***Note:*** *The solid blue color of ENT conduit is a registered trademark of Carlon®. ENT may show color deterioration in direct sunlight when stored outdoors over an extended period of time. It is suggested that all ENT products not be stored outside. Section 362.12(8) of the NEC® prohibits ENT to be used in areas exposed to direct sunlight.*

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*



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# Stub Downs

## Vertical Stub Down

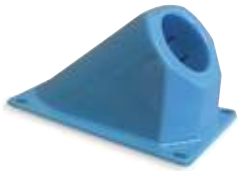
Carlon® Vertical Stub Downs are designed to provide a quick, easy connection to a wood deck or transition from slab-to-slab using Carlon's® "Quick Connect" snap-in design… simply snap the ENT in place. The integral snaps provide a secure mount — preventing the ENT from pulling out while enabling easy removal of the fitting once the deck is removed. All in a concrete-tight application. The underside of this fitting provides ample room to attach a Carlon® coupling to the ENT to continue the run. Carlon® Vertical Stub Downs are manufactured out of a highly engineered thermoplastic material to provide extra strength and durability and are available in sizes ½", ¾" and 1".



| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A210D | ½ | 50 | 3.8 |
| A210E | ¾ | 50 | 3.7 |
| A210F | 1 | 50 | 4.8 |

## 45° Stub Down

Carlon® 45° Stub Downs are designed to provide a smooth transition from cross-deck ENT runs to vertical applications. The integral snaps provide a secure mount — preventing the ENT from slipping or pulling out — but also enable the stub to easily be removed. The underside of this fitting provides ample room to attach a Carlon® coupling to the ENT to continue the run. Carlon® 45° Stub Downs are manufactured out of a highly engineered thermoplastic material to provide extra strength and durability. They're concrete tight and available in sizes ½", ¾" and 1".



| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A220D | ½ | 25 | 1.8 |
| A220E | ¾ | 25 | 2.0 |
| A220F | 1 | 25 | 2.6 |
| A220G | 1¼ | 25 | 2.8 |
| A220H | 1½ | 25 | 3.3 |
| A220J | 2 | 25 | 4.1 |

## Vertical Stub Down Transition Adapter

Carlon® Non-Metallic Exclusive…Carlon® Vertical Stub Down Transition Adapters, like our Vertical Stub Downs, provide a means to transition from ENT to another wire-management product where code requires other wire-management means. The integral snaps provide a secure mount — preventing the ENT from slipping or pulling out, while the deck-mount flange has a threaded port, enabling connection to other conduit system using a terminal adapter. Carlon® Vertical Stub Down Transition Adapters are manufactured out of polycarbonate material to provide extra strength and durability. They're concrete tight and available in sizes ½", ¾" and 1".

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| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A200D | ½" Female ENT to NPSC (Female) | 50 | 2.3 |
| A200E | ¾" Female ENT to NPSC (Female) | 50 | 2.8 |
| A200F | 1" Female ENT to NPSC (Female) | 50 | 3.9 |

## 90° Stub Down Transition Adapter

Carlon® Non-Metallic Exclusive…Carlon® 90° Stub Downs are designed to provide a smooth transition from cross-deck ENT runs to vertical applications where code requires other wire-management means. The integral snaps provide a secure mount — preventing the ENT from slipping or pulling out, while the deck-mount flange has a threaded port, enabling connection to any conduit system using a terminal adapter. Carlon® 90° Stub Downs are manufactured out of polycarbonate material to provide extra strength and durability. They're concrete tight and available in sizes ½", ¾" and 1".

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| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A230D | ½" Female ENT to NPSC (Female) | 25 | 2.0 |
| A230E | ¾" Female ENT to NPSC (Female) | 25 | 2.4 |
| A230F | 1" Female ENT to NPSC (Female) | 25 | 3.3 |

# Mud Box Assemblies

Carlon® Mud Box Assemblies are available in five unique styles…blank, ceiling ring, one-gang, two-gang and 4-inch square. All Mud Box Assemblies are manufactured out of polycarbonate material to provide extra strength and durability, are concrete tight and have twelve integral connectors…two 1", six ¾" and four ½". Using our new ENT Reducers, this product will meet ANY jobsite application.

**Cement Caps Included**

Except where noted by ▶

## Mud Box Base with Blank Cover

| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A863BC ▶ | Mud Box with Blank Cover | 24 | 12.3 |



## Mud Box with Ceiling Ring

- Threaded brass inserts for fan (#10-32 screws) and fixture (#8-32 screws) mountings
- Listed for fixture support up to 50 lbs.
- Listed for ceiling fans up to 35 lbs.

| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A863CF | Mud Box with Blank Cover | 24 | 15.5 |
| A863CFG ▶ | Mud Box with Ceiling Ring & Ground Lug | 24 | 16.1 |



## Mud Box with One-Gang Ring

| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A863S | Mud Box with One-Gang Ring | 24 | 16.8 |
| A863SG ▶ | Mud Box with One-Gang Ring & Ground Lug | 24 | 16.2 |



## Mud Box with Two-Gang Ring

| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A863D | Mud Box with Two-Gang Ring | 24 | 15.8 |
| A863DG ▶ | Mud Box with Two-Gang Ring & Ground Lug | 24 | 16.6 |



## Mud Box with 4" Square Ring

- 4" Square Ring not for luminaire

| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A863-4SQ ▶ | Mud Box with 4-Inch Square Ring | 24 | 15.2 |



## Mud Box Assemblies with Mounting Feet

Carlon® Mud Box Assemblies with Mounting Feet are specifically engineered and designed for use in Tunnel Form applications. The mounting feet are located on all four corners and enable the box to attach directly to the wall of the form using pop rivets. The pop rivets help keep the box in position during the pour and provide a safe, secure and rust-resistant mount.

| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A863-4SQF | 4-Square Ring | 24 | 17.15 |
| A863CFF | Ceiling Ring | 24 | 16.61 |
| A863CFGF | Ceiling Ring and Ground Lug | 24 | 17.46 |
| A863DF | Double-Gang | 24 | 17.42 |
| A863DGF | Double-Gang and Ground Lug | 24 | 17.99 |
| A863SF | Single-Gang | 24 | 17.15 |
| A863SGF | Single-Gang and Ground Lug | 24 | 17.44 |





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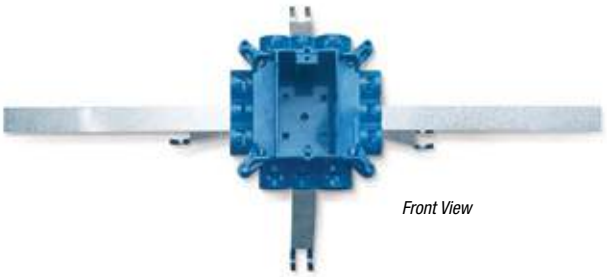
## Mounting Brackets

Carlon® Exclusive

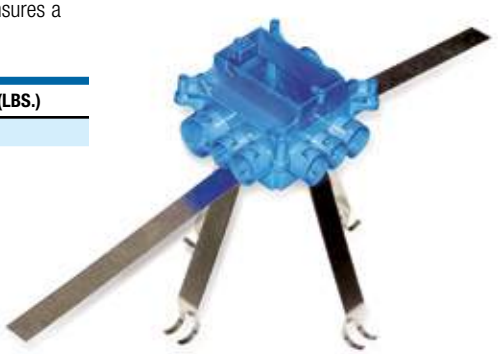
CARLON® EXCLUSIVE…The Carlon® ENT Mounting Bracket is specifically designed for use with Carlon® ENT Mud Box Assemblies in vertical concrete walls where one- or two-gang boxes are needed. The stainless steel spring-loaded mechanism provides a secure outlet box between concrete forms while the soft-steel strap enables the outlet box to be secured to rebar. The bracket combination ensures a straight box opening and a concrete-tight fit. Mud Box not included.

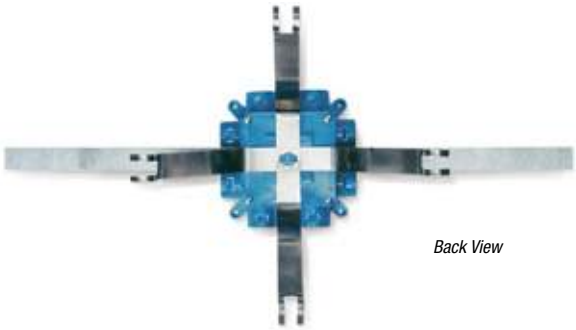
| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A863MB | Mud Box Mounting Kit | 1 | .98 |





*Front View*





*Back View*

## ENT Bridge

Carlon® Exclusive

CARLON® EXCLUSIVE…The Carlon® ENT Bridge is designed to support long ENT runs in concrete pour applications. This makes pulling wire/cable a snap. Installation is easy…simply mount the ENT bridge, using nails or screws, to the wood deck mounting and snap the ENT into place. The bridge is designed to hold the conduit in place while minimizing dips in the conduit over long runs. The Carlon® ENT Bridge is manufactured out of a highly engineered thermoplastic material to provide extra strength and durability and can accommodate ENT sizes ½", ¾" and 1". (The Carlon® ENT bridge can be used with rigid non-metallic conduit too.)



| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A293DEF | ENT Bridge | 50 | 9.0 |

# Transition Adapters

## Male ENT to Schedule 40 and 80 PVC Conduit

Carlon® Exclusive

CARLON® EXCLUSIVE…Carlon® Male ENT to Schedule 40 & 80 PVC Conduit Transition Adapters are designed to connect Schedule 40 conduit to Carlon® Flex-Plus® Blue™ ENT boxes and fittings. Simply solvent cement the PVC adapter to the Schedule 40 conduit and snap the adapter into Carlon's® "Quick Connect" snap-in connector on the box or fitting. Carlon® Male ENT to Schedule 40 & 80 Adapters are concrete tight and available in sizes ½", ¾" and 1".



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E32447

| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A263D | ½" ENT to ½" Sch. 40 or Sch. 80 | 100 | 2.4 |
| A263E | ¾" ENT to ¾" Sch. 40 or Sch. 80 | 100 | 3.2 |
| A263F | 1" ENT to 1" Sch. 40 or Sch. 80 | 100 | 4.5 |

## ENT to EMT

Carlon® ENT to EMT Transition Adapters are designed to easily transition from Carlon® Flex-Plus® Blue™ ENT to EMT using Carlon's® "Quick Connect" snap-in design. The EMT is held securely in place using the small screw (provided). This helps prevent the EMT from slipping/shifting out of the adapter. All ENT to EMT adapters are manufactured out of polycarbonate material to provide extra strength and durability. They're concrete tight and available in sizes ½", ¾" and 1".



c UL us
E86720

| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A245D | ½" ENT to ½" EMT | 100 | 3.4 |
| A245E | ¾" ENT to ¾" EMT | 100 | 4.1 |
| A245F | 1" ENT to 1" EMT | 100 | 5.4 |

## Reducers

Carlon® Exclusive

CARLON® EXCLUSIVE…Carlon® ENT Reducers are designed to provide an easy transition from 1" Carlon® ENT to ¾" ENT or from ¾" Carlon® ENT to ½" ENT. They're concrete tight and manufactured out of polycarbonate material to provide extra strength and durability. Carlon® ENT Reducers provide flexibility while on the jobsite by minimizing the need to carry size-specific boxes and fittings. Carlon® ENT Reducers provide the versatility to convert Carlon® fittings and boxes to many different sizes and configurations.



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E86720

| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A273DE | ¾"–½" | 100 | 3.2 |
| A273EF | 1"–¾" | 100 | 2.4 |



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# Outlet and Switch Boxes — Eccentric Knockouts

CARLON® EXCLUSIVE…Carlon® ENT Outlet and Switch Boxes with Eccentric Knockouts are designed to enable selective ENT openings — ½", ¾" and 1" — based on application needs. They provide the largest capacity available on the market today — 22 cu. in. Single-Gang, and 38 cu. in. Double-Gang — and can be mounted to wood or steel studs. Carlon® ENT Outlet and Switch Boxes with Eccentric Knockouts are manufactured out of a highly engineered thermoplastic material to provide extra strength and durability and are available in single-gang and double-gang styles.

***Note:*** *The double-gang version is also a 4-in. square box.*

Carlon Exclusive



E42728

### Single-Gang — 22 Cu. In.

| CAT. NO. | SIZE | CAPACITY CU. IN. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| **A122** | Single-Gang | 22 | 25 | 6.8 |

*UL Classified for 2-hour-or-less fire-resistant fire wall assemblies*



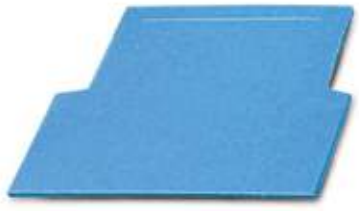
### Combination Two-Gang/Four-Inch Square Box — 38 Cu. In.

| CAT. NO. | SIZE | CAPACITY CU. IN. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| **A238** | Two-Gang | 38 | 25 | 8.9 |

*UL Classified for 2-hour-or-less fire-resistant fire wall assemblies*

# Outlet Box Divider

Carlon® ENT Outlet Box Divider is specifically designed for applications where a combined high- and low-voltage closed-back box is needed, such as for placement in a fire-rated wall. Just slip the divider into place to get the split box you need. The Carlon® ENT Outlet Box Divider is UL® Recognized for use with the Carlon® A238 Box only.



| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| **A238DIV** | — | 50 | 1.87 |

# Quick-Connect Adapters and Couplings

- Carlon® one-piece ENT Quick-Connect Couplings, Threaded Adapters and Snap-In Terminator Adapters are suitable for damp locations
- Quick-Connect Couplings and Threaded Adapters are concrete-tight when used with Carlon® ENT
- All sizes of rigid non-metallic conduit fittings are compatible with ENT when using ENT cement
- Rigid non-metallic conduit fittings are recommended for use with Carlon® 1 1/4" –2" Flex-Plus® Blue™ ENT
- Use of ENT Blue™ Quick-Set Cement is required. See **page A-338** for details
- When One-Piece Quick-Connect Snap-In Terminator Adapters are installed in a concrete application, Carlon® flat sealing washers must be used on the box connection ends

E86720 LR92248

## Couplings

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A240D | ½ | 150 | 2.90 |
| A240E | ¾ | 100 | 3.00 |
| A240F | 1 | 50 | 2.30 |

## Threaded Adapters

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A243D | ½ | 150 | 2.55 |
| A243E | ¾ | 100 | 2.30 |
| A243F | 1 | 50 | 2.00 |

## Snap-In Adapters

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A253D | ½ | 150 | 2.70 |
| A253E | ¾ | 100 | 2.90 |
| A253F | 1 | 50 | 2.30 |







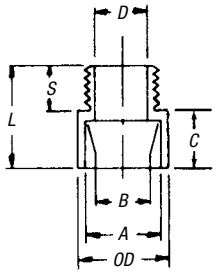
# Rigid Non-Metallic Conduit Adapters and Couplings

E32447 LR31146

## Male Terminal Adapters

*For adapting non-metallic conduits to boxes, threaded fittings, metallic systems. Male threads on one end, socket end on other.*






| CAT. NO. | SIZE | STD. CTN. | TYPICAL A | TYPICAL B | MIN. D | MAX. OD | TYPICAL C | TYPICAL S | TYPICAL L | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|
| E943D | ½ | 150 | .852 | .836 | .597 | 1⅛ | ⅝ | 9/16 | 1 5/16 | 2.8 |
| E943E | ¾ | 125 | 1.064 | 1.046 | .800 | 1 11/32 | ¾ | 9/16 | 1⅜ | 3.5 |
| E943F | 1 | 50 | 1.330 | 1.310 | 1.018 | 1⅝ | 1 | 11/16 | 1 25/32 | 3 |
| E943G | 1¼ | 50 | 1.677 | 1.655 | 1.332 | 2 1/32 | 1 | ¾ | 1 15/16 | 4 |
| E943H | 1½ | 25 | 1.918 | 1.894 | 1.566 | 2 5/32 | 1 3/16 | ¾ | 2 1/16 | 2.5 |
| E943J | 2 | 50 | 2.393 | 2.369 | 2.000 | 2 21/32 | 1 3/16 | ¾ | 2⅛ | 7 |

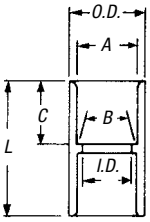
**All measurements in inches, unless otherwise noted.*

## Standard Couplings

All socket fittings should be attached using ENT Blue™ Quick-Set Cement (**page A-338**). Using Carlon® fittings with Carlon® non-metallic conduit ensures system integrity.



*Socket type for joining non-metallic conduit.*




| CAT. NO. | SIZE | STD. CTN. | TYPICAL A | TYPICAL B | MIN. D | MAX. OD | TYPICAL C | TYPICAL L | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|---|---|---|
| E940D | ½ | 150 | .852 | .836 | .728 | 1 7/64 | 1 1/16 | 1½ | 2.8 |
| E940E | ¾ | 100 | 1.064 | 1.046 | .840 | 1 5/16 | ¾ | 1⅝ | 3.5 |
| E940F | 1 | 50 | 1.330 | 1.310 | 1.210 | 1⅝ | 15/16 | 2 | 3 |
| E940G | 1¼ | 30 | 1.677 | 1.655 | 1.535 | 1 63/64 | 1 | 2⅛ | 4 |
| E940H | 1½ | 25 | 1.918 | 1.894 | 1.755 | 2 15/64 | 1⅛ | 2⅜ | 2.5 |
| E940J | 2 | 30 | 2.393 | 2.369 | 2.190 | 2 47/64 | 1 3/16 | 2½ | 7 |

**All measurements in inches, unless otherwise noted.*



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# 2½" and 4" Mud Boxes and Covers

- UL Classified for 2-hour-or-less fire-resistant floor/ceiling assemblies

## Base Rings

Listed for use with ceiling fans up to 35 lbs. and for fixture support up to 50 lbs.

E42728 LR31146

| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A861 | Without Ground Lug | 10 | 2.5 |
| C861G | With Ground Lug | 10 | 2.0 |



## Covers

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A862D | 2½ Deep (½" KOs) | 10 | 2.5 |
| A862E | 2½ Deep (¾" KOs) | 10 | 2.1 |
| A864D | 4 Deep (½" KOs) | 10 | 2.9 |
| A864E | 4 Deep (¾" KOs) | 10 | 2.9 |
| A864F | 4 Deep (1" KOs) | 10 | 3.0 |



# Quick-Connect Outlet and Switch Boxes

- Suitable for masonry walls
- Meets NEMA OS-2
- UL Classified for 2-hour-or-less fire-resistant wall assemblies

E42728

### Single-Gang — 16 Cu. In.

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A58381D | 3 x 2¼ x 3 (½" KOs) | 25 | 4.6 |
| A58381E | 3 x 2¼ x 3 (¾" KOs) | 25 | 4.6 |



### 4" Square — 20 Cu. In.

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A52151D | 4 x 4 x 1½ (½" KOs) | 100 | 22.6 |
| A52151E | 4 x 4 x 1½ (¾" KOs) | 100 | 22.6 |
| A521DE | 4 x 4 x 1½ (½" & ¾" KOs) | 100 | 22.6 |



### 4" Square — 30.3 Cu. In.

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A52171D | 4 x 4 x 2⅜ (½" KOs) | 25 | 7.6 |
| A52171E | 4 x 4 x 2⅜ (¾" KOs) | 25 | 7.6 |
| A5217DE | 4 x 4 x 2⅜ (½" & ¾" KOs) | 25 | 7.6 |



## ENT Box with Adapters

- UL Classified for 2-hour-or-less fire-resistant wall assemblies



### 4" Square — 24.75 Cu. In. ENT Box with Adapters

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A5329DE | 4 x 4 x 1¾ (½" & ¾" KOs) | 50 | 14.8 |

*UL Listed E42728*

### Box Back Wall Support

| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A540DS | For use with ½" Knockout | 100 | 2.1 |



## ENT Box Extenders

- UL Classified for 2-hour-or-less fire-resistant wall assemblies

E42728



### Single-Gang

| CAT. NO. | RISE (IN.) | CU. IN. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| A410 | ½ | 3.5 | 100 | 7.7 |
| A411 | ⅝ | 4.2 | 50 | 4.6 |
| A412 | ¾ | 5.0 | 50 | 5.1 |
| A413 | 1 | 6.6 | 40 | 5 |
| A414 | 1¼ | 8.1 | 30 | 4.4 |



### Two-Gang

| CAT. NO. | RISE (IN.) | CU. IN. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| A400 | Blank | — | 100 | 7.7 |
| A420 | ½ | 6.1 | 75 | 5.0 |
| A421 | ⅝ | 7.4 | 50 | 4.2 |
| A422 | ¾ | 8.8 | 50 | 4.8 |





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# Round Covers for Octagon Ceiling Boxes



### Round Plaster Rings

- Listed for fixture support up to 50 lbs.
- UL Classified for 2-hour-or-less fire-resistant assemblies

E42728

| CAT. NO. | RISE (IN.) | CU. IN. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| A471 | ½ | 3.2 | 100 | 3.3 |
| A472 | ¾ | 4.0 | 100 | 3.7 |



### Round Blank Covers

| CAT. NO. | RISE | CU. IN. | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| E460R-CAR | Blank | — | 35 | 2.2 |
| A470D | Blank with ½" KO | — | 100 | 4.7 |

# Quick Connect 4" Octagon Ceiling Boxes



- Carlon® ceiling boxes and round plaster rings are produced from a special high heat-resistant engineered plastic material developed specifically for fixture support
- Listed for fixture support up to 50 lbs.
- UL Classified for 2-hour-or-less fire resistant floor/ceiling assemblies

E42728

### Ceiling Box — 20.5 Cu. In.

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A615D | (4) 2⅛ Deep (½" KOs) | 50 | 6.4 |
| A615E | (4) 2⅛ Deep (¾" KOs) | 50 | 6.4 |
| A615DE | (4) 2⅛ Deep (½" & ¾" KOs) | 50 | 6.4 |



### Ceiling Box with J Mount — 20.5 Cu. In.

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A615DJ | (4) 2⅛ Deep (½" KOs) | 50 | 18.7 |



### Ceiling Box with L Bracket — 20.5 Cu. In.

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A615DL | (4) 2⅛ Deep (½" KOs) | 50 | 6.4 |



### Ceiling Box with Adjustable Hanger Bar — 20.5 Cu. In.

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| A615DH | (4) 2⅛ Deep (½" KOs) | 25 | 13.6 |

*Adjust from 14¼" to 23¼"*

## PVC Conduit Cutters

### Small Cutter

For fast, smooth field cuts of ½" through 1" Flex-Plus® Blue™ ENT.



| CAT. NO. | SIZE (IN.) | STD. CTN. |
|---|---|---|
| CC120B | 8 | 10 |

### Medium Cutter

Handheld cutter makes fast, square, smooth field cuts on conduit from ½" through 1¼". Produces burr-free cut with no shavings. Fits into pocket or pouch.



| CAT. NO. | SIZE (IN.) | STD. CTN. |
|---|---|---|
| CC125 | 9 | 12 |

### Large Cutter

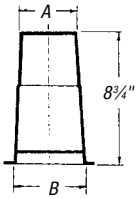
For clean cuts of conduit ½" through 2".



| CAT. NO. | SIZE (IN.) | STD. CTN. |
|---|---|---|
| CC122 | 17½ | 1 |

## Concrete Sleeves

Non-metallic concrete sleeve forms are the easy way to form holes in concrete. They install in seconds with nails, screws or staples and are easily removed. Concrete will not adhere to them. Concrete sleeves are adjustable to any slab thickness.






| CAT. NO. | MIN. O.D. A (IN.) | B (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| E92CSH | 1½ | 1¾ | 20 | 3 |
| E92CSJ | 2 | 2 13/32 | 25 | 6 |
| E92CSL | 3 | 3 13/32 | 25 | 8 |
| E92CSN | 4 | 4 13/32 | 18 | 8 |
| E92CSP | 5 | 5 13/32 | 15 | 8 |
| E92CSR | 6 | 6 13/32 | 12 | 8 |

## Tape

Prelubricated, woven polyester tape made from low-friction, high abrasion-resistant yarns, providing a low coefficient of friction. Tape is printed with sequential footage markings for accurate measurements.



| CAT. NO. | SIZE (IN.) | TENSILE STRENGTH (LBS.) | REEL LENGTHS (FT.) |
|---|---|---|---|
| TL14505 | ½ | 1250 | 5000 |
| TL14510 | ½ | 1250 | 10000 |
| TL38203 | ⅝ | 1800 | 3000 |
| TL38265 | ⅝ | 1800 | 6500 |
| TL38210 | ⅝ | 1800 | 10000 |

*Other tapes are available. Consult your sales service location for additional information.*

## Carlon® Low VOC Cement

(MSDS sheets available at **www.carlon.com**)

### All Weather — ENT Blue

| RECOMMENDED PIPE APPLICATION AND SIZES | SET-UP TIME (EVAPORATION RATE) | | RECOMMENDED INSTALLATION TEMP. | LAP SHEAR @ 73° F | | VISCOSITY AT 75° F AS MANUFACTURED |
|---|---|---|---|---|---|---|
| Required for use with Flex-Plus® ENT (Electrical Non-Metallic Tubing), Riser-Gard®, P&C Flex™ and Carlon® PVC fittings. *Up through 6" diameter.* | -5°–10° F | 6–8 Minutes | -5° to 100° F | 2 Hrs. | 350 PSI | 400–700 CPS |
| | 10°–30° F | 4–5 Minutes | | 16 Hrs. | 800 PSI | |
| | 30°–50° F | 3–4 Minutes | | 72 Hrs. | 1500 PSI | |
| | 50°–70° F | 1–2 Minutes | | | | |
| | 70°–90° F | ½–1½ Minutes | | | | |




*ENT cement required for use with ENT and Rigid Non-Metallic Conduit Fittings.*

| CAT. NO. | SIZE | APPLICATOR | DESCRIPTION | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|
| VC9992 | Quart | Dauber | All-Weather "Quick-Set" Blue | 12 | 29.0 |

*Meets ASTM D-2564.*



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# Carlon® Plenum-Gard® Raceway

Plenum-Gard® is a UL® Listed non-metallic corrugated flexible conduit for use in plenum, riser and general purpose applications. Plenum-Gard® is manufactured from PVDF resin, which is extremely durable and resistant to abrasion and mechanical damage before/after cable installation.

Plenum-Gard® is listed to UL® 2024 in accordance with the National Electrical Code® for plenum, riser, general purpose and other cabling/optical fiber/telecommunication applications as defined in Articles 725, 770, 800 and 820.

Important: Installed cables must be plenum rated and the UL® Listing must be printed on the product. Abandoned cables MUST be removed (reference NEC®).



Applications: Plenum, Riser and General Purpose

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

## Technical Info

| UL STANDARD 2024 | VALUE |
|---|---|
| Maximum Flame Propagation | 5 ft. |
| Max. Peak Optical Smoke Density | 0.5 |
| Max. Average Optical Smoke Density | 0.15 |

- Storage: -4° to 158° F
- Handling: -4° to 104° F
- No UV protection (not suitable for outdoor use)
- Do not store outside

c UL us LISTED
E13938
FT-6 Rated

## Standard Stock — Reels

| CAT. NO. | SIZE (IN.) | COLOR | PULL TAPE | REEL SIZE (F X W) (IN.) | REEL TYPE | REEL LENGTH (FT.) | REEL WT.(LBS.) | REEL WT. PER 100 FT. (LBS.) |
|---|---|---|---|---|---|---|---|---|
| **CD4X1C-1500** | ½ | Orange | 200 lb. | 34 x 23 | Wood | 1,500 | 30 | 7 |
| **CE4X1-1000** | | Orange | Empty | 34 x 23 | Wood | 1,000 | 30 | 8 |
| **CE4X1-1000S** | ¾ | Orange | Empty/Split | 34 x 23 | Wood | 1,000 | 30 | 8 |
| **CE4X1C-1000** | | Orange | 900 lb. | 34 x 23 | Wood | 1,000 | 30 | 8 |
| **CF4X1C-500** | | Orange | 900 lb. | 34 x 23 | Wood | 500 | 30 | 10 |
| **CF4X1C-1000** | | Orange | 900 lb. | 48 x 28 | Wood | 1,000 | 79 | 10 |
| **CF4X1C-1500** | 1 | Orange | 900 lb. | 48 x 28 | Wood | 1,500 | 79 | 10 |
| **CF4X1C-5200** | | Orange | 900 lb. | 66 x 41 | Wood | 5,200 | 250 | 10 |
| **CF4X1C-6500** | | Orange | 900 lb. | 72 x 41 | Wood | 6,500 | 310 | 10 |
| **CF4X1C-8000** | | Orange | 900 lb. | 82 x 41 | Wood | 8,000 | 365 | 10 |
| **CG4X1C-500** | | Orange | 900 lb. | 48 x 28 | Wood | 500 | 79 | 14 |
| **CG4X1-500S** | | Orange | Empty/Split | 48 x 28 | Wood | 500 | 79 | 10 |
| **CG4X1C-900** | | Orange | 900 lb. | 48 x 45 | Wood | 900 | 96 | 14 |
| **CG4X1C-1600** | 1¼ | Orange | 900 lb. | 48 x 45 | Wood | 1,600 | 96 | 14 |
| **CG4X1C-3200** | | Orange | 900 lb. | 66 x 41 | Wood | 3,200 | 250 | 14 |
| **CG4X1C-6500** | | Orange | 900 lb. | 96 x 41 | Wood | 6,500 | 700 | 14 |
| **CG4X1-900S** | | Orange | Empty/Split | 48 x 28 | Wood | 900 | 79 | 14 |
| **CH4X1C-350** | | Orange | 900 lb. | 48 x 28 | Wood | 350 | 79 | 16 |
| **CH4X1C-1200** | 1½ | Orange | 900 lb. | 48 x 45 | Wood | 1,200 | 96 | 16 |
| **CH4X1C-4000** | | Orange | 900 lb. | 82 x 41 | Wood | 4,000 | 365 | 16 |
| **CJ4X1-200S** | | Orange | Empty/Split | 48 x 28 | Wood | 200 | 79 | 21 |
| **CJ4X1C-225** | | Orange | 900 lb. | 48 x 28 | Wood | 225 | 79 | 21 |
| **CJ4X1C-700** | 2 | Orange | 900 lb. | 48 x 45 | Wood | 700 | 96 | 21 |
| **CJ4X1C-1400** | | Orange | 900 lb. | 82 x 41 | Wood | 1,400 | 365 | 21 |
| **CJ4X1C-2000** | | Orange | 900 lb. | 82 x 41 | Wood | 2,000 | 365 | 21 |
| **CJ4X1C-2800** | | Orange | 900 lb. | 82 x 41 | Wood | 2,800 | 365 | 21 |
| **CL4X1C-150** | 3 | Orange | 900 lb. | 48 x 45 | Wood | 150 | 96 | 41 |

# Carlon® Plenum-Gard® Raceway (continued)

**Features:**

- For use in plenum areas per NEC® Articles 725, 770, 800 and 820
- Sizes ½" through 3"
- Pre-installed pull tape available in sizes ½" through 3"
- Outside diameters meet IPS dimensions
- UL® Listed raceway meeting UL 2024
- Footage sequentially marked
- Single-peak design

## Standard Stock — Coils

| CAT. NO. | SIZE (IN.) | COLOR | PULL TAPE | COIL LENGTH (FT.) | PRODUCT WT. PER 100 FT.(LBS.) |
|---|---|---|---|---|---|
| **CD4X1C-500** | ½ | Orange | 900 lb. | 500 | 7 |
| **CE4X1-350*** | ¾ | Orange | Empty | 350 | 8 |
| **CE4X1-350S** | | Orange | Empty/Split | 350 | 8 |
| **CF4X1C-100*** | | Orange | 900 lb. | 100 | 10 |
| **CF4X1-100S*** | | Orange | Empty/Split | 100 | 10 |
| **CF4X1C-250*** | 1 | Orange | 900 lb. | 250 | 10 |
| **CF4X1-250** | | Orange | Empty | 250 | 10 |
| **CF4X1-250S*** | | Orange | Empty/Split | 250 | 10 |
| **CG4X1C-200*** | 1¼ | Orange | 900 lb. | 200 | 14 |
| **CG4X1-200S** | | Orange | Empty/Split | 200 | 14 |
| **CH4X1C-150*** | 1½ | Orange | 900 lb. | 150 | 16 |
| **CH4X1-150S** | | Orange | Empty/Split | 150 | 16 |
| **CJ4X1C-100*** | 2 | Orange | 900 lb. | 100 | 21 |
| **CJ4X1-100S** | | Orange | Empty/Split | 100 | 21 |

** Overnight Shippable*

## Specifications

| SIZE (IN.) | I.D. MIN. REF. (IN.) | MIN. O.D. (IN.) | MAX. O.D. (IN.) | MIN. BEND RADIUS (IN.) |
|---|---|---|---|---|
| ½ | .60 | .815 | .835 | 2 |
| ¾ | .74 | 1.025 | 1.045 | 2 |
| 1 | 1.00 | 1.292 | 1.312 | 3 |
| 1¼ | 1.35 | 1.630 | 1.650 | 3 |
| 1½ | 1.50 | 1.868 | 1.888 | 4 |
| 2 | 2.00 | 2.329 | 2.439 | 4 |
| 3 | 3.00 | 3.422 | 3.452 | 4 |

## Custom Orders — How to Build a Part Number:

| POSITION 1 PRODUCT | POSITION 2 SIZE (IN.) | POSITION 3 TYPE | POSITION 4 WALL | POSITION 5 COLOR | POSITION 6 PULL LINE | POSITION 7 LENGTH |
|---|---|---|---|---|---|---|
| C = Plenum-Gard | D = ½ | 4 = Corrugated | X = Standard | 1 = Orange | C = 900 LB. Tape | Example |
| | E = ¾ | | | 2 = Black | | -1000 = Feet |
| | F = 1 | | | 3 = Gray | | -1000S = 1000 Feet Split |
| | G = 1¼ | | | 4 = White | | |
| | H = 1½ | | | 5 = Blue | | |
| | J = 2 | | | 7 = Yellow | | |
| | L = 3 | | | 8 = Red | | |

- Custom orders are not returnable
- Custom lengths are available in minimum order quantities of 1,000 ft.
- Custom color runs are available in minimum order quantities of 10,000 ft.

**Options:**

- Color: Black, Blue, Gray, Red, White and Yellow
- Two-, three- or four-way parallel
- Split duct
- Custom print line



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# Carlon® Riser-Gard® Raceway



Riser-Gard® is a non-metallic flexible raceway for use in riser and general purpose applications. Riser-Gard® is UL® Listed and is available with tape pre-installed. Riser-Gard is listed to UL® 2024 Standard for riser applications or optical fiber/communications raceways.

Riser-Gard® is listed to UL® 2024 in accordance with the National Electrical Code® per Articles 725, 770, 800 and 820 for riser, general purpose and other cabling/optical fiber/telecommunication applications. Riser-Gard® is suitable for use in vertical runs in a shaft or between floors, as well as areas other than the plenum.

Important: Installed cables must be of suitable rating for the application.



Applications: Riser and General Purpose

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

c UL us LISTED
E13938
FT-6 Rated

## Technical Info

| UL LISTED TO 2024 | TEST METHOD | MAXIMUM VALUE |
|---|---|---|
| Maximum Flame Propagation | UL 2024 | 6.0 ft. |
| Maximum Air Temperature at 12 ft. | UL 2024 | 372° F |

- Storage: -4° to 158° F
- Handling: -4° to 104° F
- No UV protection (not suitable for outdoor use)
- Do not store outside

## Standard Stock — Reels

| CAT. NO. | SIZE (IN.) | COLOR | PULL TAPE | REEL SIZE (F X W) (IN.) | REEL TYPE | REEL LENGTH (FT.) | REEL WT.(LBS.) | REEL WT. PER 100 FT. (LBS.) |
|---|---|---|---|---|---|---|---|---|
| **DE4X1-1000** | ¾ | Orange | Empty | 34 x 23 | W | 1,000 | 30 | 12 |
| **DF4X1C-500R** | | Orange | 900 lb. | 43 x 23 | W | 500 | 56 | 15 |
| **DF4X1C-1000** | | Orange | 900 lb. | 48 x 28 | W | 1,000 | 79 | 15 |
| **DF4X1C-1500** | | Orange | 900 lb. | 48 x 28 | W | 1,500 | 79 | 15 |
| **DF4X1C-2700** | 1 | Orange | 900 lb. | 48 x 45 | W | 2,700 | 96 | 15 |
| **DF4X1C-5200** | | Orange | 900 lb. | 66 x 41 | W | 5,200 | 250 | 15 |
| **DF4X1C-6500** | | Orange | 900 lb. | 72 x 41 | W | 6,500 | 310 | 15 |
| **DF4X1C-7000** | | Orange | 900 lb. | 72 x 45 | S | 7,000 | 148 | 15 |
| **DF4X1C-9400** | | Orange | 900 lb. | 84 x 45 | S | 9,400 | 199 | 15 |
| **DG4X1C-900** | | Orange | 900 lb. | 48 x 28 | W | 900 | 79 | 17 |
| **DG4X1C-500R** | | Orange | 900 lb. | 48 x 23 | W | 500 | 56 | 17 |
| **DG4X1C-1500** | | Orange | 900 lb. | 48 x 45 | W | 1,500 | 96 | 17 |
| **DG4X1C-1600** | 1¼ | Orange | 900 lb. | 48 x 45 | W | 1,600 | 96 | 17 |
| **DG4X1C-3200** | | Orange | 900 lb. | 66 x 41 | W | 3,200 | 250 | 17 |
| **DG4X1C-4500** | | Orange | 900 lb. | 72 x 45 | S | 4,500 | 148 | 17 |
| **DG4X1C-5600** | | Orange | 900 lb. | 82 x 41 | W | 5,600 | 365 | 17 |
| **DG4X1C-6500** | | Orange | 900 lb. | 96 x 41 | S | 6,500 | 700 | 17 |
| **DH4X1C-1200** | | Orange | 900 lb. | 48 x 45 | W | 1,200 | 96 | 22 |
| **DH4X1C-4000** | 1½ | Orange | 900 lb. | 82 x 45 | S | 400 | 193 | 22 |
| **DH4X1C-4500** | | Orange | 900 lb. | 84 x 45 | S | 4,500 | 199 | 22 |
| **DJ4X1C-700** | | Orange | 900 lb. | 48 x 45 | W | 700 | 96 | 27 |
| **DJ4X1C-2000** | 2 | Orange | 900 lb. | 82 x 41 | W | 200 | 265 | 27 |
| **DJ4X1C-2800** | | Orange | 900 lb. | 84 x 45 | S | 2,800 | 199 | 27 |
| **DL4X1C-750** | 3 | Orange | 900 lb. | 72 x 41 | W | 750 | 310 | 27 |

*W = Wood* *S = Steel*

# Carlon® Riser-Gard® Raceway (continued)

**Features:**

- For use in riser and general purpose areas per NEC® Articles 725, 770, 800 and 820
- Riser-Gard® is also suitable for direct burial, not approved for exposed applications

*Note: UL has not evaluated Riser-Gard® for this application.*

- UL® Listed raceway meeting UL 2024
- Available in sizes ¾" through 3"
- Pull tape can be factory pre-installed in 1" through 3"
- Outside diameters meet IPS dimensions
- Footage sequentially marked

## Standard Stock — Coils

| CAT. NO. | SIZE (IN.) | COLOR | PULL TAPE | COIL LENGTH (FT.) | PRODUCT WT. PER 100 FT.(LBS.) |
|---|---|---|---|---|---|
| **DE4X1-350*** | ¾ | Orange | Empty | 350 | 12 |
| **DF4X1C-125** | | Orange | 900 lb. | 125 | 15 |
| **DF4X1C-250*** | | Orange | 900 lb. | 250 | 15 |
| **DF4X1-250** | 1 | Orange | Empty | 250 | 15 |
| **DF4X1C-500** | | Orange | 900 lb. | 500 | 15 |
| **DF4X1-250S*** | | Orange | Empty/Split | 250 | 15 |
| **DG4X1-200** | | Orange | Empty | 200 | 17 |
| **DG4X1-200S*** | 1¼ | Orange | Empty/Split | 200 | 17 |
| **DG4X1C-200*** | | Orange | 900 lb. | 200 | 17 |
| **DG4X1C-500** | | Orange | 900 lb. | 500 | 17 |
| **DH4X1-150S** | 1½ | Orange | Empty/Split | 150 | 22 |
| **DH4X1C-150*** | | Orange | 900 lb. | 150 | 22 |
| **DJ4X1-100S** | 2 | Orange | Empty/Split | 100 | 27 |
| **DJ4X1C-100*** | | Orange | 900 lb. | 100 | 27 |
| **DL4X1C-250** | 3 | Orange | 900 lb. | 250 | 27 |

** Overnight Shippable*

## Specifications

| SIZE (IN.) | I.D. MIN. REF. (IN.) | MIN. O.D. (IN.) | MAX. O.D. (IN.) | MIN. BEND RADIUS (IN.) |
|---|---|---|---|---|
| ¾ | .74 | 1.025 | 1.075 | 5 |
| 1 | .98 | 1.290 | 1.340 | 6 |
| 1¼ | 1.31 | 1.640 | 1.690 | 8 |
| 1½ | 1.54 | 1.880 | 1.930 | 10 |
| 2 | 2.00 | 2.350 | 2.400 | 12 |
| 3 | 3.00 | 3.422 | 3.452 | 18 |

## Custom Orders — How to Build a Part Number:

| POSITION 1 PRODUCT | POSITION 2 SIZE (IN.) | POSITION 3 TYPE | POSITION 4 WALL | POSITION 5 COLOR | POSITION 6 PULL LINE | POSITION 7 LENGTH |
|---|---|---|---|---|---|---|
| D = Riser-Gard | E = ¾ | 4 = Corrugated | X = Standard | 1 = Orange | C = 900 lb. Tape | Example |
| | F = 1 | | | 2 = Black | | -1000 = Feet |
| | G = 1¼ | | | 3 = Gray | | -1000S = 1000 Feet Split |
| | H = 1½ | | | 4 = White | | |
| | J = 2 | | | 5 = Blue | | |
| | L = 3 | | | 7 = Yellow | | |
| | | | | 8 = RED | | |

- Custom orders are not returnable
- Custom lengths are available in minimum order quantities of 1,000 ft.
- Custom color runs are available in minimum order quantities of 10,000 ft.

**Options:**

- Color: Black, Blue, Gray, Red, White and Yellow
- Two-, three- or four-way parallel
- Split duct
- Custom print line



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# Carlon® Hal-Free Riser-Gard® Raceway



Applications: Riser and General Purpose

Hal-Free Riser-Gard® is a halogen-free non-metallic flexible raceway for use in riser and general purpose applications. In the event of a fire, this product will not release halogen elements into the air, which makes it ideal for applications in tunnels, laboratories and high-tech environments. Hal-Free Riser-Gard® is listed to UL® 2024 in accordance with NEC® Articles 725, 770, 800 and 820. Custom lengths and split ducts are available upon request. Hal-Free Riser-Gard® is available in white only.

**Features:**

- Free from halogen elements
- Compliant with NEC® Articles 725, 770, 800 and 820
- Available in sizes 1" through 2"
- Available in white only
- Sequentially marked footage

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

## Technical Info

| UL LISTED TO 2024 | TEST METHOD | MAXIMUM VALUE |
|---|---|---|
| Maximum Flame Propagation | UL 2024 | 3' 6" ft. |
| Maximum Air Temperature | UL 2024 | 387° F |

- Storage and Handling: -4° to 150° F
- No UV protection (not suitable for outdoor use)
- Do not store outside

c UL us LISTED
E143102
FT-4 Rated

## Standard Stock — Reels

| CAT. NO. | SIZE (IN.) | COLOR | NOM. I.D (IN.) | NOM. O.D. (IN.) | PULL TAPE | REEL SIZE (F X W) (IN.) | REEL TYPE | REEL LENGTH (FT.) | REEL WT. (LBS.) | PRODUCT WT. PER 100 FT. (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|
| **HF4X4C-5000** | 1 | White | 1.049 | 1.365 | 900 lb. | 72" x 41" | W | 5,000 | 310 | 7.5 |
| **HG4X4C-4000** | 1¼ | White | 1.250 | 1.550 | 900 lb. | 72" x 41" | W | 4,000 | 310 | 7.5 |
| **HH4X4C-2000** | 1½ | White | 1.500 | 1.850 | 900 lb. | 66" x 41" | W | 2,000 | 250 | 12 |
| **HJ4X4C-2000** | 2 | White | 2.000 | 2.425 | 900 lb. | 82" x 41" | W | 2,000 | 365 | 21 |

## Custom Orders — How to Build a Part Number:

| POSITION 1 PRODUCT | POSITION 2 SIZE (IN.) | POSITION 3 TYPE | POSITION 4 WALL | POSITION 5 COLOR | POSITION 6 PULL LINE | POSITION 7 LENGTH |
|---|---|---|---|---|---|---|
| H = Hal-Free | F = 1<br>G = 1¼<br>H = 1½<br>J = 2 | 4 = Corrugated | X = Standard | 4 = White | C = 900 lb. Tape | Example<br>-1000 = Feet<br>-1000S = 1000 Feet Split |

- Custom orders are not returnable
- Custom lengths are available in minimum order quantities of 1,000 ft.

## Flexible Raceway Systems

# Carlon® Plenum Duct

**Technical Info:**

- Maximum flame propagation distance is less than 5.0 ft.
- Peak optical density of smoke is less than 0.50
- Average optical density of smoke is less than 0.15
- UL® Listed to UL 2024 Standard
- FT-6 Rated



Applications: Plenum, Riser and General Purpose Applications per NEC® Articles 725, 770, 800 and 820

### Standard Stock — Reels

| CAT. NO. | SIZE (IN.) | COLOR | PULL TAPE | REEL SIZE (IN.) | REEL LENGTH (FT.) | REEL WT. (LBS.) | PRODUCT WT. PER 100 FT. (LBS.) |
|---|---|---|---|---|---|---|---|
| **PLM100T-500** | | White | 900 lb. | 34 x 23 | 500 | 30 | 10 |
| **PLM100T-1800** | 1 | White | 900 lb. | 48 x 28 | 1,800 | 79 | 10 |
| **PLM100T-5000** | | White | 900 lb. | 72 x 41 | 5,000 | 310 | 10 |
| **PLM100T-8000** | | White | 900 lb. | 82 x 41 | 8,000 | 365 | 10 |
| **PLM125T-500** | | White | 900 lb. | 34 x 23 | 500 | 30 | 14 |
| **PLM125T-1000** | 1¼ | White | 900 lb. | 48 x 30 | 1,000 | 83 | 14 |
| **PLM125T-5000** | | White | 900 lb. | 72 x 41 | 5,000 | 310 | 14 |
| **PLM125T-6000** | | White | 900 lb. | 82 x 41 | 6,000 | 365 | 14 |
| **PLM150T-2000** | 1½ | White | 900 lb. | 66 x 41 | 2,000 | 250 | 14 |
| **PLM150T-4000** | | White | 900 lb. | 82 x 41 | 4,000 | 365 | 14 |
| **PLM200T-2000** | 2 | White | 900 lb. | 82 x 41 | 2,000 | 365 | 21 |

### Standard Stock — Coils/Box

| CAT. NO. | SIZE (IN.) | COLOR | PULL TAPE | BOX SIZE (IN.) | COIL LENGTH (FT.) | PRODUCT WT. PER 100 FT. (LBS.) |
|---|---|---|---|---|---|---|
| **PLM100T-250B2** | 1 | White | 900 lb. | 34 x 14 x 34 | 250 | 10 |
| **PLM125T-250B4** | 1¼ | White | 900 lb. | 39 x 15 x 39 | 250 | 14 |

### Specifications

| SIZE | I.D. MIN. REF. | MIN. O.D. | MAX. O.D. | MIN. BEND RADIUS |
|---|---|---|---|---|
| ½ | .60 | .815 | .835 | 2 |
| ¾ | .74 | 1.025 | 1.045 | 2 |
| 1 | 1.00 | 1.292 | 1.312 | 3 |
| 1¼ | 1.35 | 1.630 | 1.650 | 3 |
| 1½ | 1.50 | 1.868 | 1.888 | 4 |
| 2 | 2.00 | 2.329 | 2.439 | 4 |

### Custom Orders — How to Build a Part Number:

| POSITION 1 PRODUCT | POSITION 2 SIZE (IN.) | POSITION 3 PULL LINE | POSITION 4 LENGTH |
|---|---|---|---|
| PLM = PLENUM | 100 = 1 | T = 900 lb. Tape | Example |
| | 125 = 1¼ | | -1000 = Feet |
| | 150 = 1½ | | |
| | 200 = 2 | | |

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*



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## Carlon® Riser Duct

**Technical Info:**

- Maximum flame propagation: 6.0 ft. max. value
- Do not store outside
- No UV protection
- UL® Listed to UL 2024
- FT-4 Rated



Applications: Riser and General Purpose Applications per NEC® Articles 725, 770, 800 and 820. Suitable for vertical runs in a shaft or between floors.

**Standard Stock — Reels**

| CAT. NO. | SIZE (IN.) | COLOR | PULL TAPE | REEL SIZE (IN.) | REEL LENGTH (FT.) | REEL WT. (LBS.) | PRODUCT WT. PER 100 FT. (LBS.) |
|---|---|---|---|---|---|---|---|
| RIS100T-5000 | 1 | Orange | 900 lb. | 66 x 41 | 5,000 | 250 | 15 |
| RIS125T-4000 | 1¼ | Orange | 900 lb. | 72 x 41 | 4,000 | 310 | 17 |
| RIS150T-2000 | 1½ | Orange | 900 lb. | 66 x 41 | 2,000 | 250 | 22 |
| RIS200T-2000 | 2 | Orange | 900 lb. | 66 x 41 | 2,000 | 250 | 27 |

**Specifications**

| SIZE (IN.) | I.D. MIN. REF. (IN.) | MIN. O.D. (IN.) | MAX. O.D. (IN.) | MIN. BEND RADIUS (IN.) |
|---|---|---|---|---|
| ¾ | .74 | 1.025 | 1.075 | 6 |
| 1 | .98 | 1.290 | 1.340 | 6 |
| 1¼ | 1.31 | 1.640 | 1.690 | 7 |
| 1½ | 1.54 | 1.880 | 1.930 | 8¼ |
| 2 | 2.00 | 2.350 | 2.400 | 9½ |

**Custom Orders — How to Build a Part Number:**

| POSITION 1 PRODUCT | POSITION 2 SIZE (IN.) | POSITION 3 PULL LINE | POSITION 4 LENGTH |
|---|---|---|---|
| RIS = Riser | 100 = 1 | T = 900 lb. Tape | Example |
| | 125 = 1¼ | | -1000 = Feet |
| | 150 = 1½ | | |
| | 200 = 2 | | |

## Carlon® Hal-Free Riser Duct

**Technical Info:**

- Maximum flame propagation: 6.0 ft. max. value
- Do not store outside
- No UV protection
- UL® Listed to UL 2024 Standard
- FT-4 Rated



Applications: Riser and General Purpose Applications per NEC Articles 725, 770, 800 and 820.

**Standard Stock — Reels**

| CAT. NO. | SIZE (IN.) | COLOR | PULL TAPE | REEL SIZE (IN.) | REEL LENGTH (FT.) | REEL WT. (LBS.) | PRODUCT WT. PER 100 FT. (LBS.) |
|---|---|---|---|---|---|---|---|
| RHF100T-5000 | 1 | White | 900 lb. | 66 x 41 | 5,000 | 250 | 15 |
| RHF125T-4000 | 1¼ | White | 900 lb. | 72 x 41 | 4,000 | 310 | 17 |
| RHF150T-2000 | 1½ | White | 900 lb. | 66 x 41 | 2,000 | 250 | 22 |
| RHF200T-2000 | 2 | White | 900 lb. | 82 x 41 | 2,000 | 365 | 27 |

**Specifications**

| SIZE (IN.) | I.D. MIN. REF. (IN.) | MIN. O.D. (IN.) | MAX. O.D. (IN.) | MIN. BEND RADIUS (IN.) |
|---|---|---|---|---|
| ¾ | .74 | 1.025 | 1.075 | 6 |
| 1 | .98 | 1.290 | 1.340 | 6 |
| 1¼ | 1.31 | 1.640 | 1.690 | 7 |
| 1½ | 1.54 | 1.880 | 1.930 | 8¼ |
| 2 | 2.00 | 2.350 | 2.400 | 9½ |

**Custom Orders — How to Build a Part Number:**

| POSITION 1 PRODUCT | POSITION 2 SIZE (IN.) | POSITION 3 PULL LINE | POSITION 4 LENGTH |
|---|---|---|---|
| RHF = Hal-Free Riser | 100 = 1 | T = 900 lb. Tape | Example |
| | 125 = 1¼ | | -1000 = Feet |
| | 150 = 1½ | | |
| | 200 = 2 | | |

## Flexible Raceway Systems

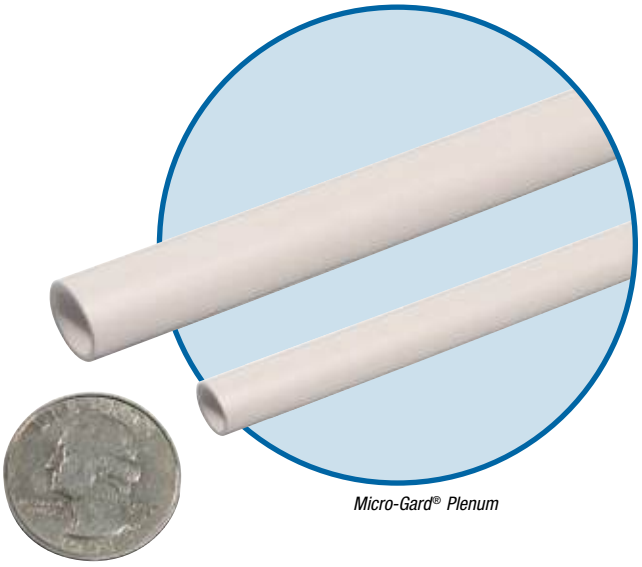
# Small. Slick. Speedy. Ideal for Telecom Installs!

# Carlon® Micro-Gard® Plenum and Micro-Gard® Riser Duct

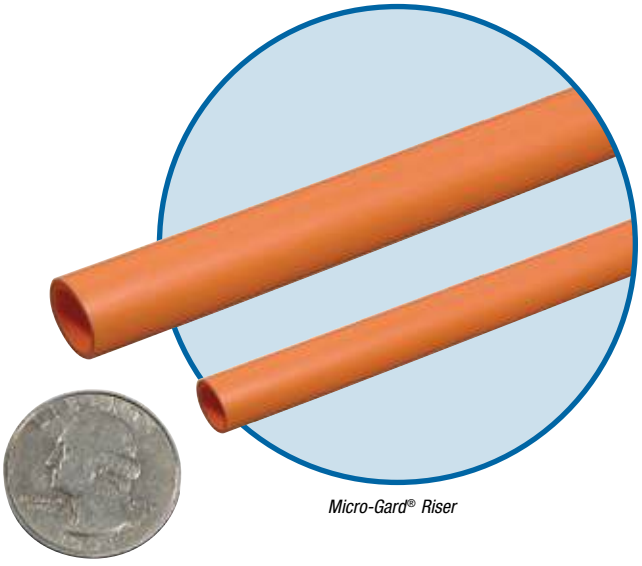
Carlon® Micro-Gard® Plenum and Micro-Gard® Riser is specifically designed to provide fiber pathways in plenum and riser applications in Multi-Dwelling Units (MDUs) and other premise structures.

The 8/6 and 12/10 mm size conduits can be installed individually or used to optimize space in existing duct structures. And the small size significantly reduces the structural damage caused during pass-throughs.

Micro-Gard® Plenum and Riser is UL® Listed for plenum and riser applications. It's easy to handle, easy to install and easy to conceal, making it the ideal MDU cable management system.



*Micro-Gard® Plenum*



*Micro-Gard® Riser*

**Features:**

- UL® and cUL Listed to UL 2024 for plenum and riser applications
- Compliant with NEC® Articles 725, 770, 800 and 820
- Two sizes: 8/6mm and 12/10mm. The smaller sizes accommodate the size constraints of multi-dwelling units and make installations faster and easier
- Smooth interior wall eliminates snag points and provides low coefficient of friction, regardless of whether jetting or pull-tape is used
- Superior burn-through resistance for longer cable pulls
- Pre-lubricated, factory installed pull-tape makes installing cable faster and easier (option available for empty duct)
- Sequentially marked footage to easily identify lengths and reduce waste
- Reel sizes from 1,000 to 5,000 feet for easy handling on the jobsite
- Future-proofing raceway system for fast, easy wire/cable upgrades, changes and moves
- Used in cable bundles

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

c UL us LISTED
E13938



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# Carlon® Micro-Gard® Plenum and Micro-Gard® Riser

| CAT NO. | SIZE | TYPE | COLOR | FACTORY INSTALLED | PRE-LUBRICATED RADIUS (IN.)* | MIN. BEND FEET/REEL | REEL SIZE (IN.) |
|---|---|---|---|---|---|---|---|
| MGP08MT-1000 | 8/6 mm | Plenum | White | 50 lb. Cord | 2 | 1,000 | 24 |
| MGP08MT-2500 | 8/6 mm | Plenum | White | 50 lb. Cord | 2 | 2,500 | 24 |
| MGP08MT-5000 | 8/6 mm | Plenum | White | 50 lb. Cord | 2 | 5,000 | 36 |
| MGP12MT-1000 | 12/10 mm | Plenum | White | 50 lb. Cord | 4 | 1,000 | 24 |
| MGP12MT-2500 | 12/10 mm | Plenum | White | 50 lb. Cord | 4 | 2,500 | 24 |
| MGP12MT-5000 | 12/10 mm | Plenum | White | 50 lb. Cord | 4 | 5,000 | 36 |
| MGR08JT-1000 | 8/6 mm | Riser | Orange | 50 lb. Cord | 2 | 1,000 | 24 |
| MGR08JT-2500 | 8/6 mm | Riser | Orange | 50 lb. Cord | 2 | 2,500 | 24 |
| MGR08JT-5000 | 8/6 mm | Riser | Orange | 50 lb. Cord | 2 | 5,000 | 36 |
| MGR12JT-1000 | 12/10 mm | Riser | Orange | 50 lb. Cord | 4 | 1,000 | 24 |
| MGR12JT-2500 | 12/10 mm | Riser | Orange | 50 lb. Cord | 4 | 2,500 | 24 |
| MGR12JT-5000 | 12/10 mm | Riser | Orange | 50 lb. Cord | 4 | 5,000 | 36 |

*NOTE: Do not exceed the minimum bend radius during installation of the product.*

## Micro-Gard® Plenum Dimensions — Smooth O.D./Ribbed I.D.

| | OUTSIDE DIAMETER | | WALL | | INSIDE DIA. (MIN.) | | | |
|---|---|---|---|---|---|---|---|---|
| CAT. NO. | INCH | MM | INCH | MM | INCH | MM | # RIBS | STD. WT. (LB./100 FT.) |
| MGP12RMT | .472 +/- .004 | 12 +/- .1 | .047 +0/-.004 | 1 +0/-.1 | .354 | 8.9 | 26 | 4.92 |
| MGP08RMT | .315 +/- .004 | 8 +/- .1 | .040 +0/-.004 | 1 +0/-.1 | .212 | 5.4 | 16 | 2.68 |

## Micro-Gard® Riser Dimensions — Smooth O.D./Ribbed I.D.

| | OUTSIDE DIAMETER | | WALL | | INSIDE DIA. (MIN.) | | | |
|---|---|---|---|---|---|---|---|---|
| CAT. NO. | INCH | MM | INCH | MM | INCH | MM | # RIBS | STD. WT. (LB./100 FT.) |
| MGR12RJT | .472 +/- .004 | 12 +/- .1 | .047 +0/-.004 | 1 +0/-.1 | .354 | 8.9 | 26 | 2.86 |
| MGR08RJT | .315 +/- .004 | 8 +/- .1 | .040 +0/-.004 | 1 +0/-.1 | .212 | 5.4 | 16 | 1.55 |

## How to Interpret a Catalog Number

| POSITION 1 PRODUCT | POSITION 2 TYPE | POSITION 3 SIZE | POSITION 4 COLOR | POSITION 5 PULL LINE | POSITION 6 LENGTH |
|---|---|---|---|---|---|
| MG = Micro-Gard | P = Plenum | 08 = 8/6mm | J = Orange | T = 50 lb. Cord | Example |
| | R = Riser | 12 = 12/10mm | M = White | | -1000 = Feet |

## Flexible Raceway System Accessories

# For use with Riser-Gard® and General Purpose
## Non-Metallic Adapters and Couplings

UL LISTED SP LR31146

### Couplings

| CAT. NO. | SIZE (IN.) | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| SCA240E | ¾ | Orange | 25 | .783 |
| SCA240F | 1 | Orange | 20 | .972 |



### Threaded Adapters

| CAT. NO. | SIZE (IN.) | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| SCA243E | ¾ | Orange | 100 | 2.30 |
| SCA243F | 1 | Orange | 50 | 2.00 |



### Snap-In Adapters

| CAT. NO. | SIZE (IN.) | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| SCA253E | ¾ | Orange | 100 | 2.90 |
| SCA253F | 1 | Orange | 50 | 2.30 |



# For use with Plenum-Gard®
## Non-Metallic Adapters and Couplings

UL LISTED

### Couplings

| CAT. NO. | SIZE (IN.) | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| A340F | 1 | Orange | 50 | 2.50 |



### Threaded Adapters

| CAT. NO. | SIZE (IN.) | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| A343F | 1 | Orange | 50 | 1.55 |



### Snap-In Adapters

| CAT. NO. | SIZE (IN.) | COLOR | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| A353F | 1 | Orange | 50 | 3.00 |





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# Flexible Raceway System Accessories

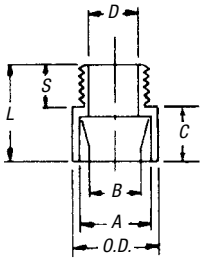
## For use with Riser-Gard® and General Purpose

UL LISTED E32447 Except where noted by ▶

### Non-Metallic Male Terminal Adapters

For adapting non-metallic conduits to boxes, threaded fittings, metallic systems. Male threads on one end, socket end on other.





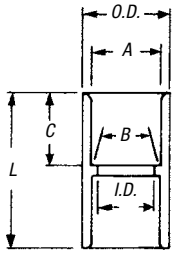

| CAT. NO. | SIZE (IN.) | STD. CTN. | COLOR | DIMENSIONS (IN.) TYPICAL A | TYPICAL B | MIN. D | MAX. O.D. | TYPICAL C | TYPICAL T | TYPICAL L | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **E943E** | ¾ | 125 | Gray | 1.064 | 1.046 | .800 | 1 11/32 | ¾ | 9/16 | 1⅜ | 3.5 |
| **E943F** | 1 | 50 | Gray | 1.330 | 1.310 | 1.018 | 1⅝ | 1 | 11/16 | 1 25/32 | 3 |
| **E943G** | 1¼ | 50 | Gray | 1.677 | 1.655 | 1.332 | 2 1/32 | 1 | ¾ | 1 15/16 | 4 |
| **E943H** | 1½ | 25 | Gray | 1.918 | 1.894 | 1.566 | 2 3/32 | 1 3/16 | ¾ | 2 1/16 | 2.5 |
| **E943J** | 2 | 50 | Gray | 2.393 | 2.369 | 2.000 | 2 21/32 | 1 3/16 | ¾ | 2⅛ | 7 |
| **SCE943G** | 1¼ | 50 | Orange | 1.677 | 1.655 | 1.332 | 2 1/32 | 1 | ¾ | 1 15/16 | 4 |
| **SCE943H** | 1½ | 25 | Orange | 1.918 | 1.894 | 1.566 | 2 3/32 | 1 3/16 | ¾ | 2 1/16 | 2.5 |
| **SCE943J** | 2 | 50 | Orange | 2.393 | 2.369 | 2.000 | 2 21/32 | 1 3/16 | ¾ | 2⅛ | 7 |

### Non-Metallic Standard Couplings

All socket fittings should be attached Using Carlon® solvent cement. Using Carlon® fittings with Carlon® non-metallic conduit ensures system integrity.



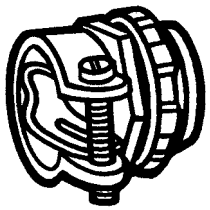
*Socket type for joining non-metallic conduit.*




| CAT. NO. | SIZE (IN.) | STD. CTN. | COLOR | DIMENSIONS (IN.) TYPICAL A | TYPICAL B | MIN. D | MAX. O.D. | TYPICAL C | TYPICAL L | STD. WT. (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|
| **E940E** | ¾ | 100 | Gray | 1.064 | 1.046 | .840 | 1 5/16 | ¾ | 1⅜ | 4.4 |
| **E940F** | 1 | 50 | Gray | 1.330 | 1.310 | 1.210 | 1⅜ | 1 5/16 | 2 | 3.5 |
| **E940G** | 1¼ | 30 | Gray | 1.677 | 1.655 | 1.535 | 1 63/64 | 1 | 2⅛ | 3.5 |
| **E940H** | 1½ | 25 | Gray | 1.918 | 1.894 | 1.755 | 2 15/64 | 1⅛ | 2⅜ | 3.9 |
| **E940J** | 2 | 30 | Gray | 2.393 | 2.369 | 2.190 | 2 47/64 | 1 3/16 | 2½ | 5.25 |
| **SCE940G** | 1¼ | 30 | Orange | 1.677 | 1.655 | 1.535 | 1 63/64 | 1 | 2⅛ | 3.5 |
| **SCE940H** | 1½ | 25 | Orange | 1.918 | 1.894 | 1.755 | 2 15/64 | 1⅛ | 2⅜ | 3.9 |
| **SCE940J** | 2 | 30 | Orange | 2.393 | 2.369 | 2.190 | 2 47/64 | 1 3/16 | 2½ | 5.25 |

## For use with Plenum-Gard®

### Metallic Terminal Adapter



| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| ▶ **255** | ¾ | 10 | 12 |
| ▶ **256** | 1 | 100 | 25 |
| ▶ **257** | 1¼ | 100 | 28 |
| ▶ **258** | 1½ | 100 | 35 |
| ▶ **259** | 2 | 50 | 19 |

### Flat Sealing Washer

Where a waterproof termination is required into any enclosure (metallic or non-metallic), install the neoprene washer over the threads of a terminal adapter before inserting into the enclosure. Use a standard locknut or threaded bushing to secure the assembly.



| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| ▶ **E943EW** | ¾ | 125 | .45 |
| ▶ **E943FW** | 1 | 100 | .46 |
| ▶ **E943GW** | 1¼ | 50 | .44 |
| ▶ **E943HW** | 1½ | 50 | .45 |
| ▶ **E943JW** | 2 | 25 | .42 |

## Flexible Raceway System Accessories

# Low-Voltage Boxes and Brackets

### Dual-Voltage Box/Bracket*

UL LISTED E11461

| CAT. NO. | COVER | VOLUME | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| SC200DV | 1-Gang | 20.5 cu. in | 16 | 6.4 |

*U.S. Patent D463,376.



SC200DV

### Low-Voltage Add-On Bracket*

UL LISTED E137781

| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| SC100SC | 1-Gang | 24 | 2.3 |

*U.S. Patent D459,312.
U.S. Patent 6,710,245.
U.S. Patent 6,872,884.



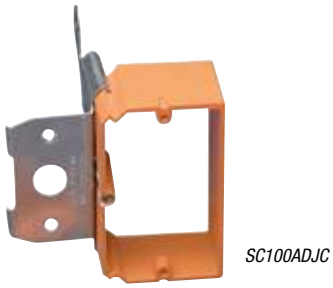
SC100SC

### Low-Voltage Adjustable Brackets*

UL LISTED E137781

| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| SC100ADJC | 1-Gang | 24 | 7.5 |
| SC200ADJC | 2-Gang | 20 | 6.9 |

*U.S. Patent 5,289,934.



SC100ADJC



SC100A

### Low-Voltage Brackets*

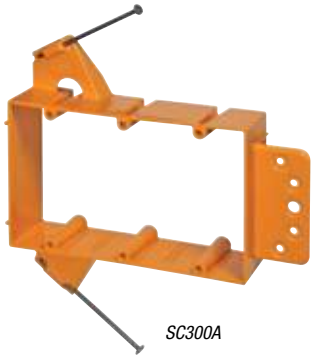
UL LISTED E137781

| CAT. NO. | SIZE | RESI-RINGS | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|
| SC100A | 1-Gang | ¾, 1, 1¼ | 24 | 5.3 |
| SC200A | 2-Gang | ¾, 1, 1¼ | 24 | 7.7 |
| SC300A | 3-Gang | — | 5 | 1.6 |

*U.S. Patent D457,140.
U.S. Patent D462,664.
U.S. Patent 6,812,405.



SC200A



SC300A

**For other Carlon® Flexible Raceway System Accessories, refer to the following pages:**

- Mud Box Assemblies — **p. A-330**
- Mud Boxes and Covers — **p. A-335**
- Quick-Connect Outlet and Switch Boxes — **p. A-335**
- ENT Box and Extenders — **p. A-336**
- Octagon Ceiling Boxes and Covers — **p. A-337**
- Cutting Tools — **p. A-338**



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# Carlon® Low-VOC Cements

*Meets ASTM D2564

## Medium — Clear

| RECOMMENDED PIPE APPLICATION AND SIZES | SET-UP TIME (EVAPORATION RATE) | | RECOMMENDED INSTALLATION TEMP. | LAP SHEAR @ 73° F | VISCOSITY AT 75° AS MANUFACTURED |
|---|---|---|---|---|---|
| Recommended for all grades and types of Carlon® wireway and fittings, except Flex-Plus® Blue™ ENT (Electrical Non-Metallic Tubing.) | 10°–30° F | Not recommended | 40° to 100° F | 2 hrs. 350 psi | 500–900 cps |
| | 30°–50° F | 5–6 minutes | | 16 hrs. 800 psi | |
| | 50°–70° F | 3–4 minutes | | 72 hrs. 1,500 psi | |
| | 70°–90° F | 1–2 minutes | | | |

*Up through 6" diameter.*

| CAT. NO. | SIZE | APPLICATOR | DESCRIPTION | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|
| **VC9963** | Pint | Dauber | PVC Medium Clear | 24 | 29.0 |
| **VC9962** | Quart | Dauber | PVC Medium Clear | 12 | 27.5 |
| **VC9961P** | Gallon | — | PVC Medium Clear | 6 | 53.5 |

*Meets ASTM D-2564.*




## Regular — Clear

| RECOMMENDED PIPE APPLICATION AND SIZES | SET-UP TIME (EVAPORATION RATE) | | RECOMMENDED INSTALLATION TEMP. | LAP SHEAR @ 73° F | VISCOSITY AT 75° AS MANUFACTURED |
|---|---|---|---|---|---|
| Recommended for all grades and types of Carlon® wireway and fittings, except Flex-Plus® Blue™ ENT (Electrical Non-Metallic Tubing.) | 10°–30° F | Not recommended | 40° to 100° F | 2 hrs. 350 psi | 500–900 cps |
| | 30°–50° F | 5–6 minutes | | 16 hrs. 800 psi | |
| | 50°–70° F | 3–4 minutes | | 72 hrs. 1,500 psi | |
| | 70°–90° F | 1–2 minutes | | | |

*Up through 6" diameter.*

| CAT. NO. | SIZE | APPLICATOR | DESCRIPTION | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|
| **VC9964** | ½ Pint | Dauber | PVC Regular Clear | 10 | 6.5 |

*Meets ASTM D-2564.*



# Carlon® Low-VOC Cements *(continued)*

## All Weather — Clear

| RECOMMENDED PIPE APPLICATION AND SIZES | SET-UP TIME (EVAPORATION RATE) | | RECOMMENDED INSTALLATION TEMP. | LAP SHEAR @ 73° F | | VISCOSITY AT 75° AS MANUFACTURED |
|---|---|---|---|---|---|---|
| Recommended for all grades and types of Carlon® wireway and fittings, except Flex-Plus® Blue™ ENT (Electrical Non-Metallic Tubing.) *Up through 6" diameter.* | -5°–10° F | 6–8 Minutes | -5° to 100° F | 2 Hrs. | 350 PSI | 400–700 CPS |
| | 10°–30° F | 4–5 Minutes | | 16 Hrs. | 800 PSI | |
| | 30°–50° F | 3–4 Minutes | | 72 Hrs. | 1,500 PSI | |
| | 50°–70° F | 1–2 Minutes | | | | |
| | 70°–90° F | ½–1½ Minutes | | | | |

| CAT. NO. | SIZE | APPLICATOR | DESCRIPTION | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|
| **VC9984** | ½ Pint | Dauber | All Weather "Quick-Set" Cement | 10 | 7.0 |
| **VC9983** | Pint | Dauber | All Weather "Quick-Set" Cement | 24 | 30.0 |
| **VC9982** | Quart | Dauber | All Weather "Quick-Set" Cement | 12 | 29.0 |
| **VC9981P** | Gallon | — | All Weather "Quick-Set" Cement | 6 | 54.0 |

*Meets ASTM D-2564.*




## Gray

| RECOMMENDED PIPE APPLICATION AND SIZES | SET-UP TIME (EVAPORATION RATE) | | RECOMMENDED INSTALLATION TEMP. | LAP SHEAR @ 73°F | VISCOSITY AT 75° AS MANUFACTURED |
|---|---|---|---|---|---|
| Recommended for all grades and types of Carlon® wireway and fittings, except Flex-Plus® Blue™ ENT (Electrical Non-Metallic Tubing.) *Up through 6" diameter.* VOC emission of 490 grams/liter per the Bay and South Coast test method. | 10°–30°F | Not recommended | 40° to 100°F | 2 hrs. 350 psi | 500–900 cps |
| | 30°–50°F | 5–6 minutes | | 16 hrs. 800 psi | |
| | 50°–70°F | 3–4 minutes | | 72 hrs. 1,500 psi | |
| | 70°–90°F | 1–2 minutes | | | |

| CAT. NO. | SIZE | APPLICATOR | DESCRIPTION | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|---|---|
| **VC9LV4-24** | ½ Pint | Dauber | Low VOC Gray | 24 | 15.5 |
| **VC9LV3** | Pint | Dauber | Low VOC Gray | 24 | 27.0 |
| **VC9LV2** | Quart | Dauber | Low VOC Gray | 12 | 26.0 |

*Meets ASTM D-2564.*






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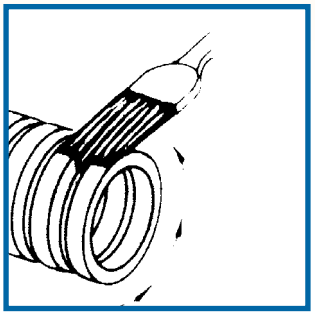
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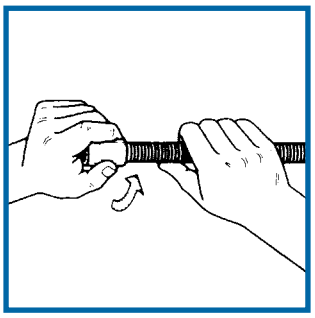
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*Technical Information*

# Concrete Encasement Guidelines for Carlon® ENT

1. Cut ENT square and clean.
2. Insert end into fitting, making sure two (2) full corrugations are snapped into fitting beyond flexible tabs (2 clicks).
3. ENT should be tied to rebar at 2–3 foot intervals to prevent flotation. Keep ENT straight. Small deflections over a long run may accumulate significant degrees of bend that will affect conductor installation. Suitable materials include wire, tie wraps and tape.
4. When using rigid non-metallic conduit fittings for concrete tight performance:





**A.** Do not use chemical primer or cleaner.

**B.** Use a brush to apply a light, uniform coat of cement labeled for use with ENT on the coupling and ENT.

**C.** Do not use a dauber.

**D.** Brush excess cement out of ENT grooves.

**E.** Promptly insert ENT into fitting while cement is wet, until the stop is reached, and give a quarter turn.

**F.** Do not disturb until joint is set.

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

**Specifications:**

1.1 Electrical Non-Metallic Tubing (ENT) is designed to replace EMT, flexible metal conduit or other raceway or cable systems, for installation in accordance with Article 362 of the National Electrical Code® Section 12-1500 of the CEC, other applicable sections of the Code and local codes.

1.2 Any ENT used shall be listed to the requirements of UL Standard UL 1653 in accordance with Article 362 of the NEC® and Section 12-1500 of the CEC.

1.3 Any ENT used shall meet the requirements of BI National Standard CAN/CSA-C22.2 No. 227.1-UL1653 and shall be Listed/Certified in accordance to the Electrical Codes.

1.4 Carlon's® ENT shall be installed per the technical assessment prepared by fire cause analysis for use in 1-hour and 2-hour rated construction.

1.5 Penetration of fire-rated walls, floors or ceilings shall use Classified Through-Penetration Firestop Systems described in the current Underwriters Laboratories Fire Resistance Directory.

1.6 Fittings and outlet boxes designed for use with ENT shall be listed. All fittings, boxes and accessories shall be from one manufacturer.

1.7 Only Carlon® ENT Blue™ cement recommended specifically for use with ENT and rigid non-metallic fittings shall be used.

1.8 Unless indicated differently on drawings, ENT systems shall be color coded: BLUE for branch and feeder circuit wiring, YELLOW for communications and RED for fire alarm and emergency systems, or colors can designate different voltages.

1.9 ENT, fittings and accessories shall be manufactured by Carlon®.

**Features:**

- Recognized for use with PVC rigid non-metallic conduit fittings with all sizes of ENT
- ENT rated for 90° C conductors U.S., and 75° C Canada
- One-piece ENT Coupling, Threaded Terminator and RNC Transition Fitting are rated concrete tight without tape
- Recognized for use in 2-hour fire-resistive nonload-bearing and load-bearing wall assemblies
- Recognized for use in 1-hour fire-resistive nonload-bearing wall assemblies
- Recognized for use in a fire-resistive ceiling assembly (up to three hours)
- Recognized for Through-Penetration Firestop systems as classified by UL to meet ICC building codes.
- Conductors easily push through the raceway (up to approximately 50 feet)*
- For use in buildings in accordance with NEC® Article 362/ CEC Section 12-1500
- Outside Diameters meet IPS Dimensions
- Storage -4° F to 158° F
- Handling -4° F to 104° F

*Continued on next page*

## Technical Information

*Continued from previous page*

**Approved Uses:**

- Concrete slab — NEC® Article 362/CEC Section 12-1500
- Walls — wood stud, masonry and metal stud — NEC® Article 362/CEC Section 12-1500
- Ceilings — permanent or dropped (free air only) — NEC® Article 362/CEC Section 12-1500
- Exposed — NEC® Article 362/CEC Section 12-1500
- Public assembly — NEC® Section 518.4, in non-fire rated and certain fire rated structures
- Prewired — NEC® Article 362/CEC Section 12-1500
- Classified by UL 1479 for Through Penetration Firestop Systems in UL Guide Category XHEZ and current UL Fire Resistance Directory
- Three-hour rated floor/ceiling assembly
- Raised floors — NEC® Section 645.5(E)(2)
- Exposed or concealed in building above three floors when a fire sprinkler system is installed in accordance with NFPA 13 — NEC® Section 362.10(2)
- For use in residential attics up to three feet above the bottom of the ceiling joist
- Maximum ambient temperature 140° F (60° C)

**Typical Applications:**

- Residential: low or high rise — multi or single family
- Commercial: low or high rise — office, retail, hotel/motel, restaurant, etc.
- Nursing homes/hospitals in non-patient care areas only
- Schools, classrooms, dormitories, offices
- Fire alarm systems
- Recreational vehicles and parks
- Solar photovoltaic systems
- Marinas and boatyards
- Other uses per the current NEC® and CEC

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

# Carlon® Innerduct Guide
# When Innerduct is being used inside the building…

## Plenum

- Must be UL® Listed
- Plenum cable must be installed
- Color: Industry standard orange
- Pull tape pre-installed in sizes ½" through 3"

| CARLON® | | PYRAMID® | |
|---|---|---|---|
| CAT. NO. | SIZE (IN.) | CAT. NO. | SIZE (IN.) |
| CD4X1C | ½ | PLM100T | 1 |
| CE4X1C | ¾ | PLM125T | 1¼ |
| CF4X1C | 1 | PLM150T | 1½ |
| CG4X1C | 1¼ | PLM200T | 2 |
| CH4X1C | 1½ | | |
| CJ4X1C | 2 | | |
| CL4X1C | 3 | | |

*Note: HDPE innerduct will not meet code*

## General Purpose and Riser

- Must be UL® Listed
- Riser rated cable must be used in riser applications
- Color: Industry-standard orange

| CARLON® | | PYRAMID® | |
|---|---|---|---|
| CAT. NO. | SIZE (IN.) | CAT. NO. | SIZE (IN.) |
| DE4X1C | ¾ | RIS100T | 1 |
| DF4X1C | 1 | RIS125T | 1¼ |
| DG4X1C | 1¼ | RIS150T | 1½ |
| DH4X1C | 1¼ | RIS200T | 2 |
| DJ4X1C | 2 | | |
| DL4X1C | 3 | | |

*Specifying and installing UL Listed innerducts with the anticipation of future upgrades provides the building owner with a low-cost solution for the removal of abandoned cables.*



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Kindorf®

# Kindorf® Modular Metal Framing System



## In this section...



### Kindorf® Modular Metal Framing System


Overview ..... B-2–B-7
Channels, Nuts and Fittings ..... B-8–B-30
Conduit, Cable and Pipe Supports ..... B-31–B-41
Concrete Inserts ..... B-42–B-43
Beam Clamps and Hanger Rod Supports ..... B-44–B-54
Wall and Support Brackets ..... B-55–B-56
Surface Raceway and Lighting Support Systems ..... B-57–B-72
Hardware and Threaded Components ..... B-73–B-77
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Right Angle Slotted Angle Systems ..... B-85–B-90
Non-Metallic Channel and Accessories ..... B-91–B-94
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## Overview

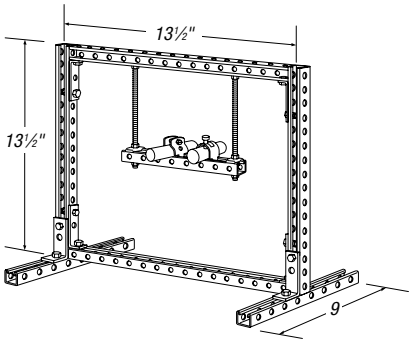
# Why Kindorf® 1½" Channel Saves You Labor Dollars



## Kindorf® Channel's 1½" is Much More than a Cross-Section Dimension

The 1½" with Kindorf® channel is truly a modular dimension. The channel height, width and prepunched hole spacings are all engineered around 1½" increments. The angle fittings and the bolt holes in the angle fittings are all engineered around 1½" increments as well. Scribe marks are located at 1½" intervals to mark the midpoint between holes and every 6" on the side for easy measurement.

Jobsite adaptability and structural integrity are the key factors in making strut channel an economical solution to metal framing needs. Kindorf® channel, with its 1½" modular dimensions, enables the installer to do more work with fewer pieces and less labor dollars.




*1½" wide x 1½" deep*
*⅞" continuous open slot*
*10 ft. and 20 ft. lengths*

MEMBER OF
METAL FRAMING MANUFACTURERS ASSOCIATION

## Kindorf® Channel

The Kindorf® Channel System is designed so that the maximum number of support and framing applications can be constructed with a minimum amount of labor and pieces.

## Uniqueness in Design

The 1½" dimension in the channel, hole spacing and fittings means all parts fit together, no matter where they're used, or at what angle. This modular dimension provides maximum flexibility in field applications, and results in saving inventory and labor dollars. The Kindorf® channel exclusive Galv-Krom® finish provides superior corrosion protection for all threaded components, channel and fittings. Through a two-part process, the coating is applied on all finished parts after fabrication — there is no exposed surface where corrosion can start.

## Strength

Even though the Kindorf® channel is slightly smaller in dimensions, it supports the same weight as 1⅝" channel.

## Compatibility with 1⅝" Strut

The Kindorf® System is designed so that most accessories are compatible with 1⅝" strut. Conduit and pipe straps will work equally well with 1⅝" and 1½" strut. In addition, most 1⅝" accessories are interchangeable with Kindorf® channel. Angle fittings can adapt easily to the open side of any 1⅝" strut and the unique parallelogram nuts provide secure attachment to both types of strut.

## Full Line of Support Products

The Kindorf® channel system's many advantages are extended into a broad product offering including beam clamps, concrete inserts, lighting supports, cable cleats and a variety of threaded components. This system is available in the largest selection of finishes and materials, including green coated, aluminum, stainless steel and non-metallic. This, combined with a nationwide network of distributors and service centers, makes the Kindorf® system a single source for supported metal-framing needs.



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# Overview

## Here's What the Modular Dimension Can Do for You

Using a 1⅝" channel with hole spacings on 1⅞" centers requires numerous fittings and, in many cases, limits the joint fastening to the open side of the channel. Field drilling and welding, plus the need for extra fittings, become the rule rather than the exception. With constant 1½" dimensions throughout the system, many structural joints can be made with a minimum of fittings. Consider the following:

## 1. The Entire Section Can be Used.

You are not limited to using only the open-slot side because holes line up on channel and fittings. Using the scribe marks ensures the fittings will work and a straight cut is made.

## 2. Considerable Field Drilling and Welding Eliminated.

The holes are already there and they are usable. Back-to-back, side-to-back, side-to-side — all combinations that can be made using B-995 Kindorf® channel.

## 3. Field Cutting and Layout Made Simple.

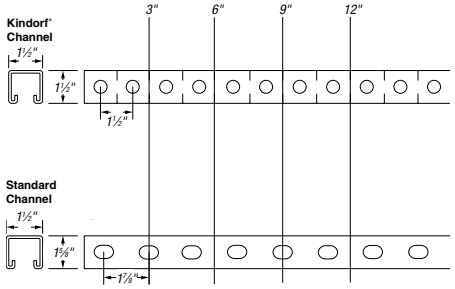
8 scribe marks = 1 ft. Simply count the marks and cut. Position of holes ensures balanced support for trapezes on every piece, thus keeping waste to an absolute minimum.

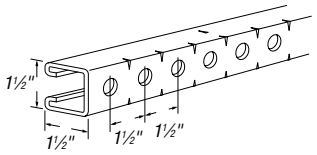
## 4. Modular Fittings Fasten to Bolt Side or Slot Side — Unique Stud Nut.

Kindorf® framing fittings are engineered for versatile use — to meet the greatest number of framing combinations with maximum rigidity and security. Fittings may be fastened to the channel on either the bolt-hole side or the slot side.

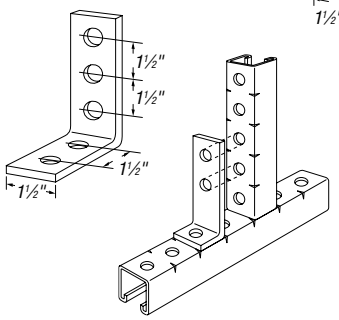
The matching 1½" dimensions of channel bolt holes and fitting bolt holes provide a fast alignment and quick bolting. Fastening on the slot side provides infinite placement of the nut to match bolting requirements. Either way results in simple "building block" erection and permits multiple application of fittings. With the B-911SN Stud Nut, blind fastening of angles and fixtures is eliminated.

**Kindorf® channels make it easy to cut:**

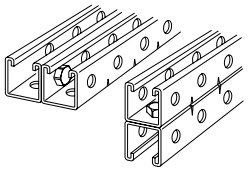


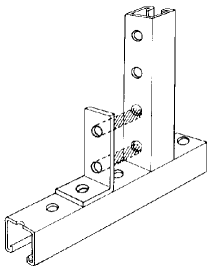

*Channel with bolt holes 9⁄16" dia. holes on 1½" centers for 1½" bolts.*




*Kindorf® 1½"*
*All holes line up — all the time.*

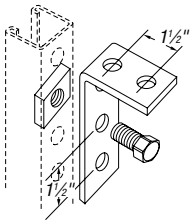


*Holes in fittings also line up.*

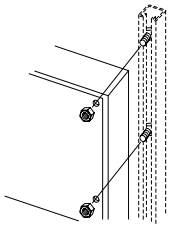


*1⅝" Strut*
*⅞" holes cause misalignment.*

**Fastening on bolt-hole side.**

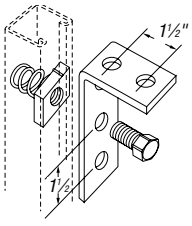



*Clamping nut or hex head nut may be used for attachment and security of fittings to either side of channel.*



*Stud nut saves time, reduces labor — like having an extra pair of hands.*

**Fastening on slot side.**




*Spring nut holds in position without support. Inserts easily in channel and sets automatically — cannot rotate.*

## Overview

# Let the Modular 1½" Dimension Work for You by Saving Labor and Inventory Dollars!

## Why Kindorf® 1½" Channel Saves You Inventory Dollars

**Fewer Pieces Do More Work.**

By making equal use of the back of the channel, the sides of the channel (B-995 see **page B-13**) and the open slot, your options are increased. Combine this with three simple fittings that are 1½" wide and have 1½" hole layout, and you have the simplest and most versatile channel system on the market today.

By stocking a single-channel system and only three angle fittings, a multitude of jobs can be done.

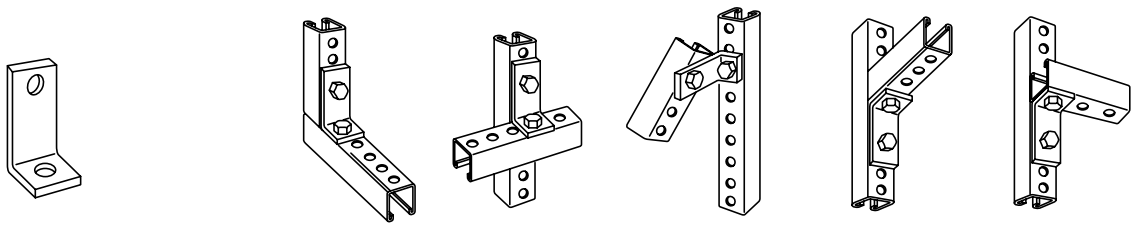
With fewer pieces doing more work, ordering efficiency is increased and investment dollars are decreased.

*Any way you look at it — Kindorf® strut can save you money.*

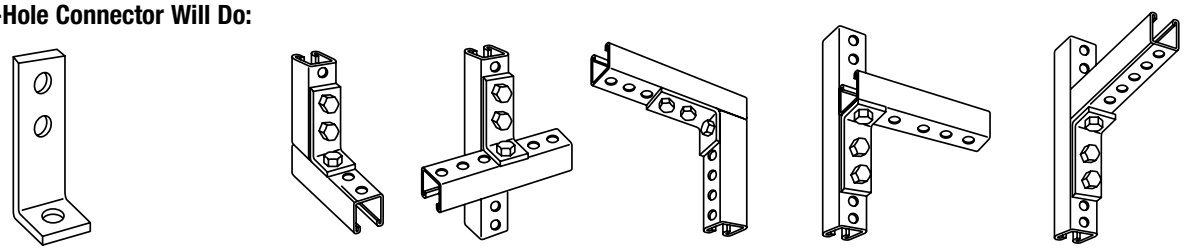


*By simply stocking B-995 prepunched channel and three angle fittings, a great number of joints can be made.*

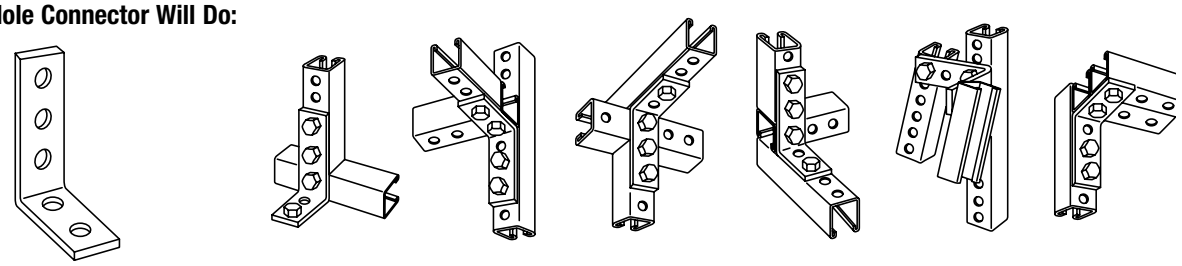
**One Kindorf® B-915**
**Two-Hole Connector Will Do:**



**One Kindorf® B-916**
**Three-Hole Connector Will Do:**



**One Kindorf® B-917**
**Five-Hole Connector Will Do:**





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## Overview

# Galv-Krom® Electro-Galvanized Finish



## Trivalent Galv-Krom® is OSHA Compliant.

Over the past several years, there have been many questions about hexavalent chromium in the metal framing industry. Many of these questions relate to the changes made by OSHA. In 2006, the Occupational Safety and Health Administration (OSHA) published a revised standard which includes changes related to occupational exposure to hexavalent chromium (Cr VI). The revised standard was promulgated on February 28, 2006 with the compliance provisions taking effect on November 27, 2006 for most businesses. There is no Cr VI in our unique Kindorf® Trivalent Galv-Krom® finish.



## New Trivalent Galv-Krom® Finish is RoHS Compliant

In 2007, Thomas & Betts introduced the new and improved trivalent Galv-Krom® finish. Galv-Krom® finish is a combination of .5 mils electro-plated zinc and a gold trivalent chromium finish.

- **Gold Trivalent Chromium Finish —** The new Galv-Krom® finish features a trivalent chromium formulation that provides all the features and protection of hexavalent chromium (CR VI) without the use of this chemical. Hexavalent chromium is a substance that is restricted by some standards such as the European Union directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS).
- **RoHS Compliant —** One great feature for the new Trivalent Chromium formulation is RoHS compliance. Because hexavalent chromium is a substance that is restricted by RoHS, moving away from a hexavalent formulation to the new trivalent formulation will make the performance of Galv-Krom® coating available to customers affected by RoHS and other standards like RoHS around the world.
- **Trivalent Galv-Krom® Finish Is OSHA Safe —** As mentioned previously, the hexavalent formulation of the Galv-Krom® finish was safe with regard to the revised 2006 OSHA standard. This new trivalent formulation of the Galv-Krom® finish does not contain any hexavalent chromium and therefore does not fall under the scope of the OSHA standard. As a result, the new Trivalent Galv-Krom® finish, just like the Hexavalent Galv-Krom® finish, is OSHA compliant.
- **ASTM B633 Specification —** The improved Galv-Krom® finish is applied in compliance with ASTM B633 coating, the same standard as used previously. This standard outlines electro-deposited coatings of zinc on steel.

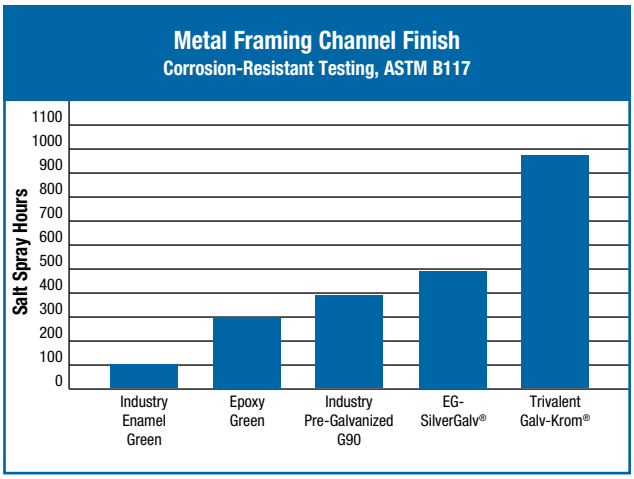
## Overview

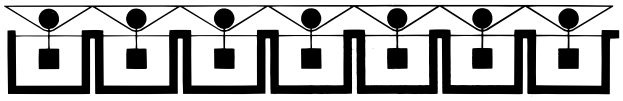
# Kindorf® Galv-Krom® Finish Outperforms the Competition

The new and improved Galv-Krom® finish provides many benefits. First, it provides continued safety within OSHA guidelines. Second, the trivalent formulation provides RoHs compliance. But most important of all, the new Kindorf® Galv-Krom® finish provides a level of performance unmatched by the competition.

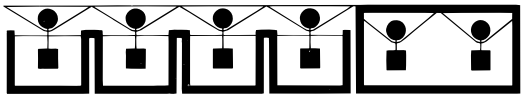
- **Superior Corrosion Protection —** One hallmark of the Galv-Krom® finish is the superior corrosion protection it provides. In the ASTM B117 salt spray test, the new Galv-Krom® finish provided improved protection to the previous Hexavalent formulation, and substantially more protection than painted finishes or G-90 Pre-Galvanized (see chart at right). This outstanding corrosion protection means more versatile installations and more service life for Galv-Krom® finished products.
- **Strong Abrasion Resistance —** The Galv-Krom® finish won't chip or peel like a green-painted strut product. It stands up to rough handling.
- **Clean Finish —** For pre-galvanized finishes, the zinc finish is applied before the strut is manufactured. That means all the oil and grime collected while the steel is formed into strut remains on the strut for the customer. Because Galv-Krom® finish is applied after fabrication, the oils and grime collected during the manufacturing process are thoroughly cleaned off during plating. This creates a finished product that leaves no residue on your hands when handling.
- **Paintable Surface —** The new Galv-Krom® finish uses nano technology to provide a nonporous and non-crystalline surface. Not only does this feature provide enhanced corrosion protection, it also provides an excellent bond for the paint of your choice.
- **No More White Rust —** With pre-galvanized strut, a common quality concern is the formation of white rust on the zinc finish. With Galv-Krom® finish, the trivalent chromium finish is applied over the zinc, to seal in the zinc beneath and stop the formation of white rust.
- **Great Electrical Conductivity —** Unlike paint or enamel, the Galv-Krom® surface offers a minimum of electrical resistance so that electrical applications are easily grounded when grounding is needed.





| Soak Degreasing Chemical | Electro Cleaner | Rinse | Sulfuric Acid Bath | Rinse | Zinc Tank | Rinse |
|---|---|---|---|---|---|---|
| Solution removes bulk of oil and grease buildup. | Metal is negatively charged to remove minute surface particles. | Live, clear water rinse. | Prepares the metal by etching the surface for the zinc application. | Live, clear water rinse. | Electrically applies the zinc metal coating. | Chemically treated rinse water. |



| Rinse | Trivalent Chromium Prep | Trivalent Chromium Dip | Rinse | Dryer |
|---|---|---|---|---|
| Live, clear water rinse. | Polishing agent to prepare part for chromium. | A gold trivalent chromium conversion coat is applied to the zinc. | Live, clear water rinse. | Forced hot air is circulated around the strut until dry. |



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# Overview

## Finishes

### 1. Galv-Krom®

Commonly referred to as "gold," the Galv-Krom® finish is a combination of .5 mils electro-plated zinc and a gold trivalent chromium finish, offering superior rust protection and excellent electrical conductivity.

### 2. SilverGalv® (Suffix EG)

Often referred to as "zinc plated" or "electroplated zinc," the SilverGalv® finish applies .5 mils of zinc and a clear conversion coat. Electro-galvanizing is available for channel as well as small fittings, hardware and threaded products.

### 3. Pre-galvanized Steel (Suffix PG)

In addition to the standard Galv-Krom® finish, all Kindorf® channels are available in pre-galvanized steel. This material is identical to the standard steel except for its ASTM G-90 zinc coating. This coating is applied at the steel mill prior to the channel fabrication.

### 4. Green Coated (Suffix GR)

Green urethane powder resins are applied electrostatically to the steel after fabrication. Once the material is completely covered with the powdered-form urethane, it proceeds through a 400° baking process for ten minutes, creating a chemical bond. This results in a minimum of 1.5 mil thickness of urethane coating providing excellent resistance to chipping or peeling.

### 5. Hot-Dipped Galvanized (Suffix HD)

The material is zinc coated after fabrication providing total product protection on all surfaces. The fabricated channel or fitting is suspended and then dipped into tanks of hot zinc for a prolonged period, creating a coherent bond. The result is superior corrosion resistance as compared to pre-galvanized material. Hot-dipped galvanizing is not recommended for threaded products, considering the zinc coating thickness will often disrupt the threads.

Kindorf® hot-dipped galvanized channel is in conformance with ASTM Specifications A-123 (formerly A-386) and A-153.

Kindorf® channels maintain a minimum 1.5 ounces of zinc per square foot of steel or 2.5 mils (ASTM A-123, Thickness Grade 65). This finish is also referred to as "Hot-dipped galvanized after fabrication."

### 6. PVC Coated (Prefix P)

A polyvinyl chloride (PVC) plastic coating is fused to the channel, fitting or accessory after fabrication by immersing the part in fluidized PVC tanks. The fused-melt mixed powder PVC coating thickness is 15 mils (.015") plus or minus five mils. PVC material is a thermoplastic and will soften in high temperatures. An inherent weakness with PVC coatings occurs when field alterations are applied, such as cutting or drilling. These acts disrupt the sealed PVC product and warrant field touch-up. Thomas & Betts cannot be held responsible for field-altered PVC coated products.

## Materials

### 1. Standard Steel

The standard Kindorf® Channel is made from high-quality ASTM A570 Grade 40 carbon steel sheet. These sections are cold formed into a unique and modular profile by an efficient roll forming process. Additionally, the process "cold works" the steel is to give it greater mechanical properties.

### 2. Extruded Aluminum (Suffix AL)

For more corrosive environments, T&B also offers extruded aluminum channel sections. These section are nearly identical to their steel counterparts. Aluminum channel is made from 6063 Aluminum and heat treated to a T-6 specification.

### 3. Non-Metallic (Suffix N)

Kindorf® channels are also available in fiberglass-reinforced polyester and vinylester. These products are pultruded into shapes similar to steel channels. They offer a high degree of corrosion protection and are very lightweight.

### 4. Stainless Steel (Suffix SS)

For the most corrosive environments, T&B offers Type 304 Stainless Steel channel sections and accessories. Type 316 stainless available upon request. Contact your local sales rep. These products are identical to their carbon steel counterparts except for a much greater corrosion resistance.

## Warning

Load tables, charts and design criteria provided in this catalog are intended as guides only. Selection of proper product, installation intervals, erection and placement are the responsibility of the user.

Kindorf® products are intended to be used for the support and bracing of fixtures, cable, pipe and conduit. Improper use or installation may result in injury to persons or damage to property.

Material and finish specifications are subject to change without notice.

# Channels, Nuts and Fittings

## Channels

Kindorf® channel is a rugged, heavy-gage structural-quality steel channel preformed in a "U" shape with a continuous open slot the entire length. The turned-in edges serve as retaining points for the nut and bolt assembly of fittings to the channel. The shape of the channel permits infinite adjustability of the clamping nut simply by gliding it along the channel to the desired position. Spring-tensioned nuts are generally used for positioning overhead or in vertical channel installations. A stud nut (with spring) is provided for easy mounting of cabinets and equipment.

Channel Nuts are specially shaped as parallelograms with biting edges so that when tightened with normal pressure on the bolt, the nut clamps the sides of the channel together in a secure connection, which reinforces the rigidity of the channel itself. The nut rests on the "lips" of the channel slot.

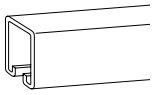
## Steel Channels

- Galv-Krom® finish
- 10 ft. and 20 ft. lengths

### Solid Base



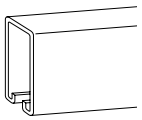
*B-906*
*1½" x ¾" x 14 ga.*



*B-901*
*1½" x 1⅞" x 12 ga.*



*B-900 (12 ga.)*
*B-900-M (14 ga.)*
*1½" x 1½"*



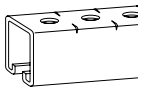
*B-902*
*1½" x 3" x 12 ga.*

### Bolt Hole Base

- 9/16" diameter bolt holes on 1½" centers ¾" from end



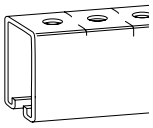
*B-907*
*1½" x ¾" x 14 ga.*



*B-909*
*1½" x 1⅞" x 12 ga.*



*B-905 (12 ga.)*
*B-905-M (14 ga.)*
*1½" x 1½"*

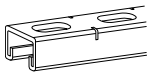


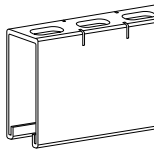
*B-903*
*1½" x 3" x 12 ga.*

### Half-Slot Base

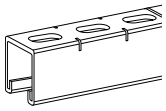
- 9/16" x ⅞" slots on 1½" centers ¾" from end

*B-907HS*
*1½" x ¾" x 14 ga.*





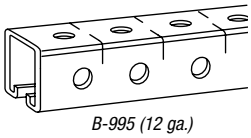
*B-905HS (12 ga.)*
*B-905HS-M (14 ga.)*



*B-903HS*
*1½" x 3" x 12 ga.*

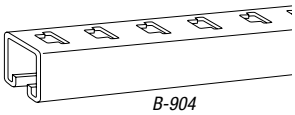
### Bolt Hole Base

- Bolt holes on 3 sides, 9/16" diameter on 1½" centers ¾" from end



*B-995 (12 ga.)*
*B-995-M (14 ga.)*
*1½" x 1½"*

### T-Slot Base



*B-904*
*1½" x 1½" x 12 ga.*

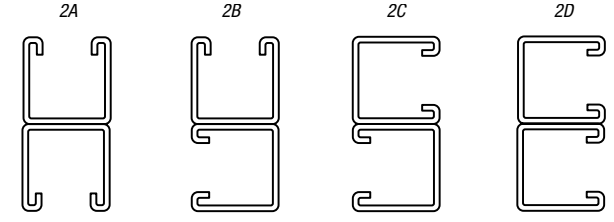
## Kindorf® Channels — Combination Channels

All Kindorf® channels are available in a variety of combinations — some are shown below.

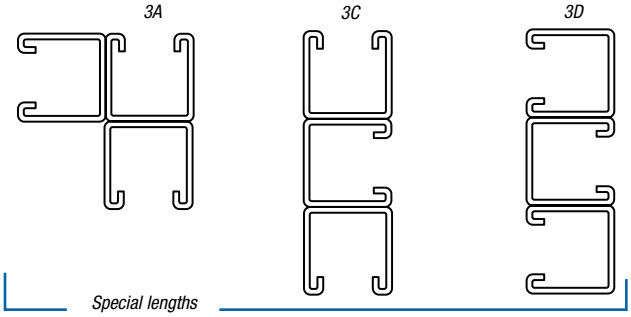
**How To Order**

Add the suffix designation of the desired combination to the regular channel catalog number.

(Example: Two **B-900** channels back to back are ordered as **B-900-2A**.)




*10- and 20-ft. lengths — steel*




*Special lengths may be ordered.*



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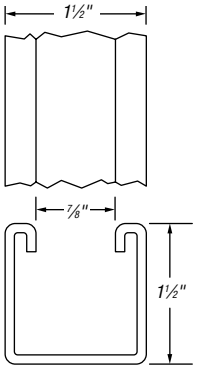
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# Channels, Nuts and Fittings

## B-900 Channel — 1½" x 1½"

*Connection by means of continuous slot.*






### Properties of Section

| CAT. NO. | SECTIONAL AREA | MATERIAL THICKNESS | LBS/FT. |
|---|---|---|---|
| B-900 | .345 | .104 | 1.206 |
| B-900-M | .217 | .074 | .74 |

| X-X AXIS | | |
|---|---|---|
| I | S | R |
| .101 | .123 | .535 |
| .018 | .163 | .272 |

| Y-Y-AXIS | | |
|---|---|---|
| I | S | R |
| .129 | .175 | .603 |
| .077 | .105 | .559 |

| CAT. NO. | DESCRIPTION | MATERIAL |
|---|---|---|
| B 900 10 | Galv-Krom® | 12 ga. |
| B-900-20 | Galv-Krom® | 12 ga. |
| B-900-M-10 | Galv-Krom® | 14 ga. |
| B-900-M-20 | Galv-Krom® | 14 ga. |
| B-900-10-EG | SilverGalv® | 12 ga. |
| B-900-20-EG | SilverGalv® | 12 ga. |
| B-900-M-10-EG | SilverGalv® | 14 ga. |
| B-900-M-20-EG | SilverGalv® | 14 ga. |

*Use H-113-B bolts and B-910-1/2 or B-911-1/2 steel nuts for mounting fittings.*

*B-900, 162 lbs./C ft. B-900-M, 107 lbs./C ft.*

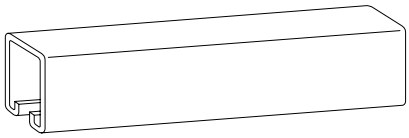
| CAT. NO. | DESCRIPTION | JOINER | END CAPS |
|---|---|---|---|
| B-900 | 12 ga. Galv-Krom® | — | — |
| B-900-M | 14 ga. Galv-Krom® | — | — |
| B-900-10GR | Green powder coated | — | — |
| B-900-20GR | Green powder coated | G978 | — |
| B-900-10PG | Pre-galvanized | G978A | G967 |
| B-900-20PG | Pre-galvanized | G1503S | — |
| B-900-10HD | Hot-dipped galvanized | — | — |
| B-900-20HD | Hot-dipped galvanized | — | — |

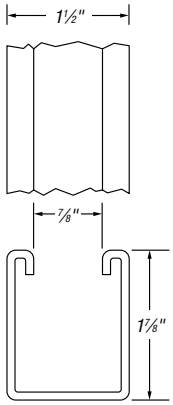
*Use H-113-B bolts and B-910-1/2 or B-911-1/2 steel nuts for mounting fittings.*

*B-900, 162 lbs./C ft. B-900-M, 107 lbs./C ft.*

## B-901 Channel — 1½" x 1⅞"

*For heavier load requirements.*
*Connection by means of continuous slot.*






### Properties of Section

| CAT. NO. | SECTIONAL AREA | MATERIAL THICKNESS | LBS/FT. |
|---|---|---|---|
| B-901 | .595 | .104 | 2.028 |

| X-X AXIS | | |
|---|---|---|
| I | S | R |
| .263 | .251 | .665 |

| Y-Y-AXIS | | |
|---|---|---|
| I | S | R |
| .238 | .309 | .632 |

| CAT. NO. | DESCRIPTION | MATERIAL |
|---|---|---|
| B-901-10 | Galv-Krom® | 12 ga. |
| B-901-20 | Galv-Krom® | 12 ga. |
| B-901-10-EG | SilverGalv® | 12 ga. |
| B-901-20-EG | SilverGalv® | 12 ga. |

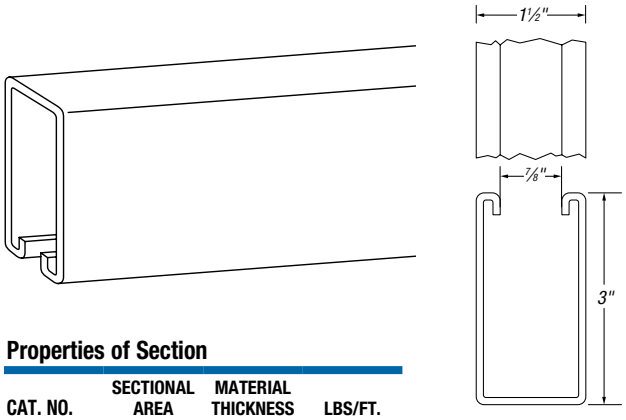
*Use H-113-B bolts and B-910-½" or B-911-½" steel nuts for mounting fittings. 196 lbs./C ft.*

| CAT. NO. | DESCRIPTION | JOINER | END CAPS |
|---|---|---|---|
| B-901 | 12 ga. Galv-Krom® | G978C | G-966 |
| B-901HD | Hot-dipped galvanized | — | — |

*Use H-113-B bolts and B-910-½" or B-911-½" steel nuts for mounting fittings. 196 lbs./C ft.*

## B-902 Channel — 1½" x 3"

*Connection by means of continuous slot.*




### Properties of Section

| CAT. NO. | SECTIONAL AREA | MATERIAL THICKNESS | LBS/FT. |
|---|---|---|---|
| B-902 | .837 | .104 | 2.825 |

| X-X AXIS | | |
|---|---|---|
| I | S | R |
| .909 | .552 | 1.042 |

| Y-Y-AXIS | | |
|---|---|---|
| I | S | R |
| .363 | .471 | .658 |

| CAT. NO. | DESCRIPTION | MATERIAL |
|---|---|---|
| B 902 10 | Galv-Krom® | 12 ga. |
| B-902-20 | Galv-Krom® | 12 ga. |
| B-902-10-EG | SilverGalv® | 12 ga. |
| B-902-20-EG | SilverGalv® | 12 ga. |

*Use H-113-B bolts and B-910-1/2 steel nuts for mounting fittings.*

*285 lbs./C ft.*

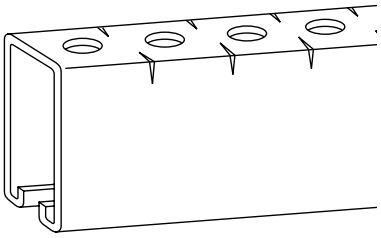
| CAT. NO. | DESCRIPTION | JOINER | END CAP |
|---|---|---|---|
| B-902-10 | 12 ga. Galv-Krom® | — | — |
| B-902-20 | 12 ga. Galv-Krom® | G978-D | G957 |
| B-902-10HD | Hot-dipped galvanized | G-3003S | — |
| B-902-20HD | Hot-dipped galvanized | — | — |

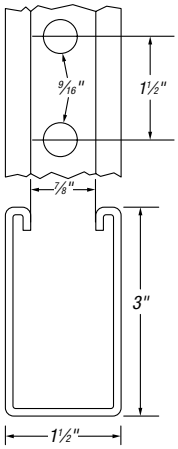
*Use H-113-B bolts and B-910-1/2 steel nuts for mounting fittings.*

*285 lbs./C ft.*

## B-903 Channel — 1½" x 3"

*Connection by means of continuous slot or ⅜" holes on 1½" centers.*






| CAT. NO. | DESCRIPTION | MATERIAL |
|---|---|---|
| B-903-10 | Galv-Krom® | 12 ga. |
| B-903-20 | Galv-Krom® | 12 ga. |
| B-903-10-EG | SilverGalv® | 12 ga. |
| B-903-20-EG | SilverGalv® | 12 ga. |

*Use H-113-B bolts and B-910-1/2 steel nuts for mounting fittings.*

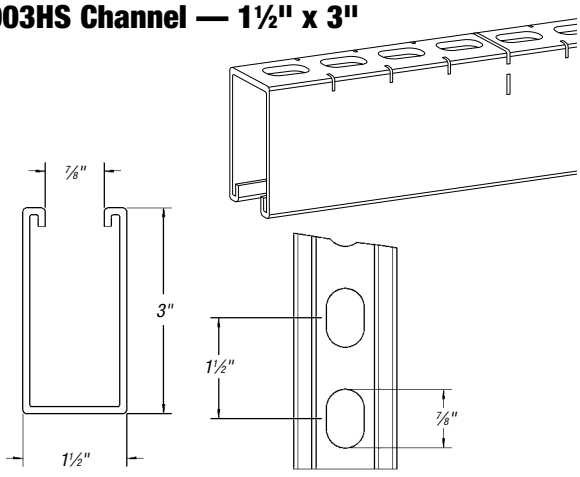
*277 lbs./C ft.*

| CAT. NO. | DESCRIPTION | JOINER | END CAP |
|---|---|---|---|
| B-903 | 12 ga. Galv-Krom® | G978-D | — |
| B-903HD | Hot-Dipped Galvanized | G3003S | — |

*Use H-113-B bolts and B-910-1/2 steel nuts for mounting fittings.*

*277 lbs./C ft.*

## B-903HS Channel — 1½" x 3"




| CAT. NO. | DESCRIPTION | MATERIAL |
|---|---|---|
| B 903HS 10 | Galv-Krom® | 12 ga. |
| B-903HS-20 | Galv-Krom® | 12 ga. |
| B-903HS-10-EG | SilverGalv® | 12 ga. |
| B-903HS-20-EG | SilverGalv® | 12 ga. |

*Use H-113-B bolts and B-910-1/2 steel nuts for mounting fittings.*

*277 lbs./C ft.*



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**Technical Services**
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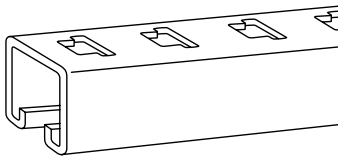
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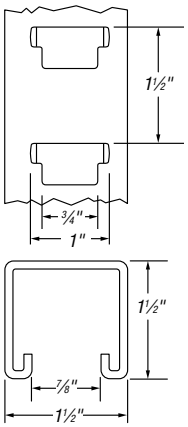
# Channels, Nuts and Fittings



## B-904 Channel — 1½" x 1½"

*Connection by means of continuous slot or T-slots on 1½" centers in base side of channel.*



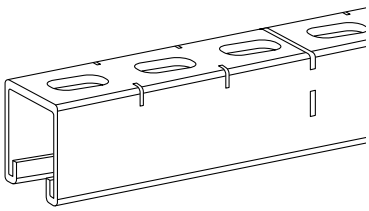


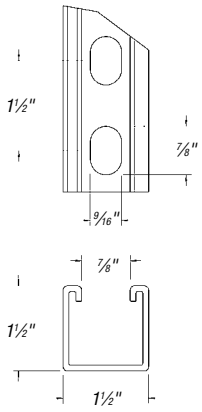

| CAT. NO. | DESCRIPTION |
|---|---|
| B-904 10 | 12 ga. Galv-Krom® |
| B-904HD | Hot-Dipped Galvanized |

*For attachment to continuous slot use H-113-B bolts and B-910-1/2 steel nuts.*

*For attachment to T-slots use F-739 brackets 155 lbs./C ft.*

## B-905HS Channel — 1½" x 1½"






| CAT. NO. | DESCRIPTION | MATERIAL |
|---|---|---|
| B 905HS 10 | Galv-Krom® | 12 ga. |
| B-905HS-20 | Galv-Krom® | 12 ga. |
| B-905HS-M-10 | Galv-Krom® | 14 ga. |
| B-905HS-M-20 | Galv-Krom® | 14 ga. |
| B-905HS-10-EG | SilverGalv® | 12 ga. |
| B-905HS-20-EG | SilverGalv® | 12 ga. |
| B-905HS-M-10-EG | SilverGalv® | 14 ga. |
| B-905HS-M-20-EG | SilverGalv® | 14 ga. |

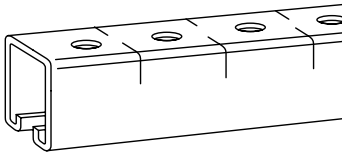
*Use H-113-B bolts and B-910-1/2 or B-911-1/2 steel nuts for mounting fittings.*

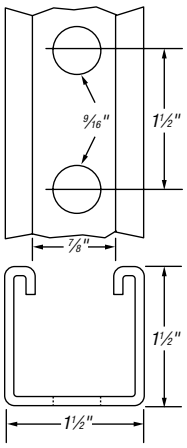
*Scribe marks designate midpoint between holes for accurate field cutting.*

*B-905, 158 lbs./C ft. B-905-M, 102 lbs./C ft.*

## B-905 Channel — 1½" x 1½"

*Connection by means of continuous slot or 9⁄16" holes on 1½" centers that match holes in B-900 series fittings.*






| CAT. NO. | DESCRIPTION | MATERIAL |
|---|---|---|
| B 905 10 | Galv-Krom® | 12 ga. |
| B-905-20 | Galv-Krom® | 12 ga. |
| B-905-M-10 | Galv-Krom® | 14 ga. |
| B-905-M-20 | Galv-Krom® | 14 ga. |
| B-905-10-EG | SilverGalv® | 12 ga. |
| B-905-20-EG | SilverGalv® | 12 ga. |
| B-905-M-10-EG | SilverGalv® | 14 ga. |
| B-905-M-20-EG | SilverGalv® | 14 ga. |

*Use H-113-B bolts and B-910-1/2 or B-911-1/2 steel nuts for mounting fittings.*

*Scribe marks designate midpoint between holes for accurate field cutting.*

*B-905, 158 lbs./C ft. B-905-M, 102 lbs./C ft.*

| CAT. NO. | DESCRIPTION | JOINER | END CAP |
|---|---|---|---|
| B-905 | 12 ga. Galv-Krom® | — | — |
| B-905-M | 14 ga. Galv-Krom® | — | — |
| B-905-10GR | Green Coated | — | — |
| B-905-20GR | Green Coated | — | — |
| B-905-10PG | Pre-Galvanized | — | — |
| B-905-20PG | Pre-Galvanized | — | — |
| B-905-10HD | Hot-Dipped Galvanized | — | — |
| B-905-20HD | Hot-Dipped Galvanized | — | — |

*Use H-113-B bolts and B-910-1/2 or B-911-1/2 steel nuts for mounting fittings.*

*Scribe marks designate midpoint between holes for accurate field cutting.*

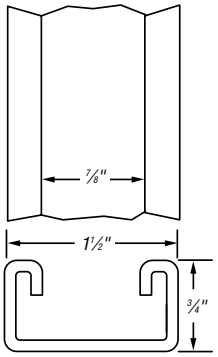
*B-905, 158 lbs./C ft. B-905-M, 102 lbs./C ft.*

# Channels, Nuts and Fittings

## B-906 Channel — 1½" x ¾"

*Connection by means of continuous slot.*






### Properties of Section

| SECTIONAL AREA | MATERIAL THICKNESS | LBS/FT. |
|---|---|---|
| .521 | .104 | 1.776 |

| X-X AXIS | | |
|---|---|---|
| I | S | R |
| .155 | .088 | .545 |

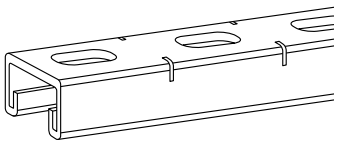
| Y-Y-AXIS | | |
|---|---|---|
| I | S | R |
| .2 | .259 | .619 |

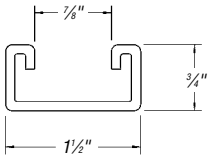
| CAT. NO. | DESCRIPTION | MATERIAL |
|---|---|---|
| B 906 10 | Galv-Krom® | 14 ga. |
| B-906-20 | Galv-Krom® | 14 ga. |
| B-906-10-EG | SilverGalv® | 14 ga. |
| B-906-20-EG | SilverGalv® | 14 ga. |

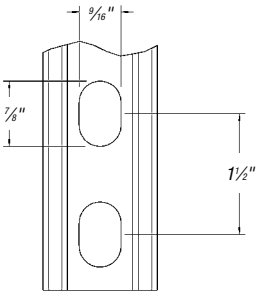
*Use H-113-A bolts and B-910-½" or B-912-½" steel nuts for mounting fittings.*

*Steel 75 lbs./C ft.*

## B-907HS Channel — 1½" x ¾"






| CAT. NO. | DESCRIPTION | MATERIAL |
|---|---|---|
| B 907HS 10 | Galv-Krom® | 14 ga. |
| B-907HS-20 | Galv-Krom® | 14 ga. |
| B-907HS-10-EG | SilverGalv® | 14 ga. |
| B-907HS-20-EG | SilverGalv® | 14 ga. |

*Use H-113-A bolts and B-910-½" or B-912-½" steel nuts for mounting fittings.*

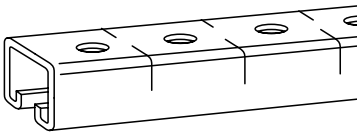
*Holes on B-900 series fittings match channel holes.*

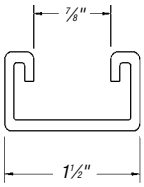
*Scribe marks on steel channel designate midpoint between holes for accurate field cutting.*

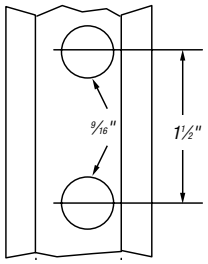
*Steel 71 lbs./C ft.*

## B-907 Channel — 1½" x ¾"

*Connection by means of continuous slot or 9⁄16" holes on 1½" centers.*






| CAT. NO. | DESCRIPTION | MATERIAL |
|---|---|---|
| B-907-10 | Galv-Krom® | 14 ga. |
| B-907-20 | Galv-Krom® | 14 ga. |
| B-907-10-EG | SilverGalv® | 14 ga. |
| B-907-20-EG | SilverGalv® | 14 ga. |

*Use H-113-A bolts and B-910-½" or B-912-½" steel nuts for mounting fittings.*

*Holes on B-900 series fittings match channel holes.*

*Scribe marks on steel channel designate midpoint between holes for accurate field cutting.*

*Steel 71 lbs./C ft.*

| CAT. NO. | DESCRIPTION | JOINER |
|---|---|---|
| B-907 | 14 ga. Galv-Krom | B948 |
| B-907-10GR | Green Coated | B948 |
| B-907-20GR | Green Coated | B948 |
| B-907-10PG | Pre-Galvanized | B948 |
| B-907-20PG | Pre-Galvanized | B948 |
| B-907-10HD | Hot-Dipped Galvanized | B948 |
| B-907-20HD | Hot-Dipped Galvanized | B948 |

*Use H-113-A bolts and B-910-½" or B-912-½" steel nuts for mounting fittings.*

*Holes on B-900 series fittings match channel holes.*

*Scribe marks on steel channel designate midpoint between holes for accurate field cutting.*

*Steel 71 lbs./C ft.*



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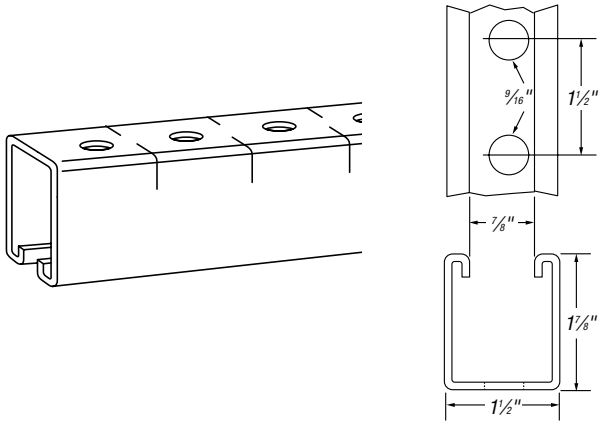
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# Channels, Nuts and Fittings



## B-909 Channel — 1½" x 1⅞"

*For heavier load requirements. Connection by means of continuous slot or 9/16" holes on 1½" centers.*




| CAT. NO. | DESCRIPTION | MATERIAL |
|---|---|---|
| **B 909 10** | Galv-Krom® | 12 ga. |
| **B-909-20** | Galv-Krom® | 12 ga. |
| **B-909-10-EG** | SilverGalv® | 12 ga. |
| **B-909-20-EG** | SilverGalv® | 12 ga. |

*Use H-113-B bolts and B-910-½" or B-911-½" steel nuts for mounting fittings.*

*118 lbs./C ft.*

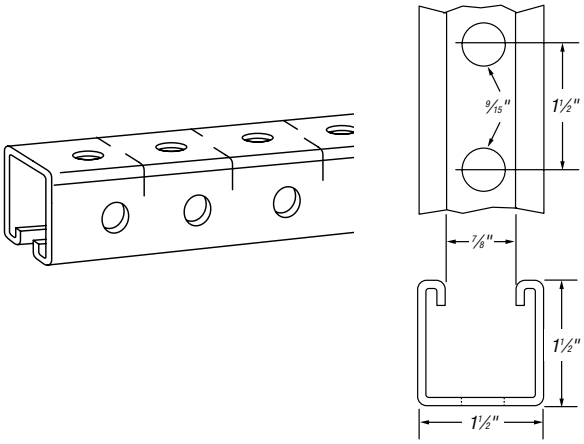
| CAT. NO. | DESCRIPTION | JOINER |
|---|---|---|
| **B-909** | 12 ga. Galv-Krom | G978-C |
| **B-909HD** | Hot-Dipped Galvanized | G978-C |

*Use H-113-B bolts and B-910-½" or B-911-½" steel nuts for mounting fittings.*

*118 lbs./C ft.*

## B-995 Channel — 1½" x 1½"

*Connection by means of continuous slot or 9/16" holes on 1½" centers on three sides which match holes in B-900 series fittings.*




| CAT. NO. | DESCRIPTION | MATERIAL |
|---|---|---|
| **B 995 10** | Galv-Krom® | 12 ga. |
| **B-995-20** | Galv-Krom® | 12 ga. |
| **B-995-M-10** | Galv-Krom® | 14 ga. |
| **B-995-M-20** | Galv-Krom® | 14 ga. |
| **B-995-10-EG** | SilverGalv® | 12 ga. |
| **B-995-20-EG** | SilverGalv® | 12 ga. |
| **B-995-M-10-EG** | SilverGalv® | 14 ga. |
| **B-995-M-20-EG** | SilverGalv® | 14 ga. |

*Use H-113-B bolts and B-910-½" or B-911-½" steel nuts for mounting fittings.*

*150 lbs./C ft. Scribe marks designate midpoint between holes for accurate field cutting.*

*Standard 10 ft. lengths*

## Channel Nuts

Kindorf® Channel Nuts are manufactured from mild steel and are case hardened.

### Design Data

Kindorf® self-aligning channel nuts are designed to provide resistance to pull out and resistance to side slip in excess of the full strength of the channels with which they are used. The extreme resistance to side slip results from the unique design of the alternate teeth, spaced and designed to develop a wedging action that increases with pressure or load.



### Load Ratings of Steel Channel and Insert Nuts

(B-910-1/2 or B-911-1/2) when used in slot of 12 ga. Kindorf® channel and tightened to a torque of 50 ft. Pounds are as follows:

Withdrawal resistance to pull out safe-load rating = 1,600 lbs.
Slip resistance safe-load rating = 400 lbs.

(B-910-1/2 or B-912-1/2) when used in slot of 14 ga. Kindorf channel and tightened to a torque of 50 ft. Pounds are as follows:

Withdrawal resistance to pull out safe-load rating = 1,300 lbs.
Slip resistance safe-load rating = 400 lbs.

Load ratings are based on safety factor of 3.

## BC-910 Universal Cone Nut

Eliminates the inventory and installation hassles of conventional spring nuts. Fits all 1⅝" channel, regardless of depth, with a simple twist of your thumb. Pliable nylon cone secures the nut in place through the entire range of construction site temperatures.

### Screw Threads

| THREAD SIZE | B | J | C | D |
|---|---|---|---|---|
| Threads per inch | 20 | 18 | 16 | 13 |
| Design Torque (ft.-lbs.) | 6 | 11 | 19 | 50 |

*All threaded products are American Standard thread, free fit class 2.*

*Galv-Krom® hardware finish is standard for all Superstrut products. This is a multi-process finish of electro-plated zinc, followed by gold-colored trivalent chromium finish to give excellent corrosion resistance and a superior paint base.*

*Standard Finish – Galv-Krom®, unless otherwise stated.*

## Trapnut® Strut Fastener





*H 122 3/8 Trapnut® Strut Fastener Galv-Krom®*

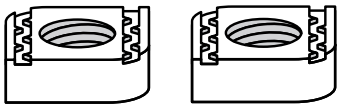


*H 122 3/8 EG Trapnut® Strut Fastener SilverGalv®*

| CAT. NO. | DESCRIPTION | SIZE (IN.) | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|---|
| H 122 1/4 | ¼" Galv-Krom® | ¼ | 150 | 50 |
| H 122 3/8 | ⅜" Galv-Krom® | ⅜ | 590 | 50 |
| H 122 1/2 | ½" Galv-Krom® | ½ | 1,080 | 50 |
| H 122 1/4 EG | ¼" SilverGalv® | ¼ | 150 | 50 |
| H 122 3/8 EG | ⅜" SilverGalv® | ⅜ | 590 | 50 |
| H 122 1/2 EG | ½" SilverGalv® | ½ | 1,080 | 50 |
| H 122 1/4 SS6 | ¼" Type 316 Stainless Steel | ¼ | 150 | 50 |
| H 122 3/8 SS6 | ⅜" Type 316 Stainless Steel | ⅜ | 590 | 50 |
| H 122 1/2 SS6 | ½" Type 316 Stainless Steel | ½ | 1,080 | 50 |

## Channel Nuts — Standard Finish: Galv-Krom®

## B-910 Series



*For use with all Kindorf® channels*

| CAT. NO. | SIZE (IN.) | THICKNESS (IN.) | WT. LBS./C |
|---|---|---|---|
| B 910 1/4 | ¼–20 | 3/16 | 7.5 |
| B-910-5/16 | 5/16–18 | 5/16 | 7.3 |
| B-910-3/8 | ⅜–16 | 5/16 | 9.15 |
| B-910-1/2 | ½–13 | ⅜ | 9.9 |

### Load Ratings for B-910 Strut Nuts

| CHANNEL NUT SIZES | SLIP TEST RATING | PULL TEST RATING (IN.) |
|---|---|---|
| ¼ | 300 | 500 |
| ⅜ | 750 | 1000 |
| ½ | 1,200 | 2000 |

*If connections will be subjected to dynamic or seismic loading conditions, contact the factory for design assistance.*

*1. All ratings have safety factor of 3 applied.*

*2. Load ratings are for Static Applications.*



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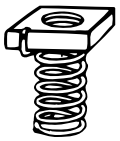
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Fax: 901.252.1354

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# Channels, Nuts and Fittings

## B-911 Series

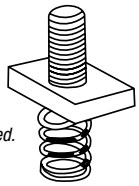


*Self-holding clamping nut with spring attached.*
*For use with 1½" deep channels.*

| CAT. NO. | SIZE (IN.) | THICKNESS (IN.) | WT. LBS./C |
|---|---|---|---|
| B 911 1/4 | ¼–20 | 3/16 | 8 |
| B-911-5/16 | 5/16–18 | 5/16 | 8.25 |
| B-911-3/8 | 3/8–16 | 5/16 | 10 |
| B-911-D-3/8* | 3/8–16 | 5/16 | 12 |
| B-911-1/2 | ½–13 | 3/8 | 10 |
| B-911-D-1/2* | ½–13 | 7/8 | 13 |

** For clamping nuts with spring for 3" deep channels add suffix D to catalog number.*

## B-911-SN Series

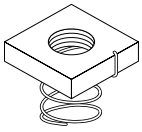


*Stud nut self-holding clamping nut with spring attached.*

| CAT. NO. | SIZE (IN.) | THICKNESS (IN.) | WT. LBS./C |
|---|---|---|---|
| B 911 3/8 SN1† | 3/8–16 | 3/16 | 12.5 |
| B-911-3/8-SN2† | 3/8–16 | 5/16 | 13.0 |
| B-911-1/2-SN1† | ½–13 | 5/16 | 16.0 |
| B-911-1/2-SN2† | ½–13 | 3/8 | 17.0 |

*†B-911-3/8-SN1, Stud: 3/8 Dia., 1" Long and B-911-3/8-SN2, Stud: 3/8 Dia., 1¼" Long.*
*Accepts Kindorf® Nuts H-114C (hex), H-116-C (square).*
*B-911-1/2-SN1, Stud: ½ Dia., 1" Long. and B-911-1/2-SN2, Stud: ½ Dia., 1¼" Long.*
*Accepts Kindorf® Nuts H-114D (hex), H-116-D (square).*

## B-912 Series



*Self-holding clamping nut with spring attached.*
*For use with ¾" deep channels.*

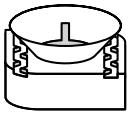
| CAT. NO. | SIZE (IN.) | THICKNESS (IN.) | WT. LBS./C |
|---|---|---|---|
| B 912 1/4 | ¼–20 | 3/16 | 8.0 |
| B-912-5/16 | 5/16–18 | 5/16 | 7.5 |
| B-912-3/8 | 3/8–16 | 5/16 | 9.5 |
| B-912-1/2 | ½–13 | 5/16 | 9.8 |

*Standard finish: Galv-Krom®*

## BC-910 Series

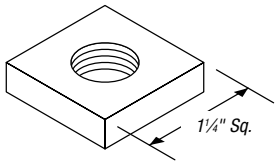
- Universal nylon cone nut
- Sizes: ¼", 3/8" & ½"

*For all 1⅝" & 1½" channels. May be used with ALL strut depths*



| CAT. NO. | SIZE (IN.) | FINISH |
|---|---|---|
| BC910 1/4 | ¼–20 | Galv-Krom® |
| BC910 3/8 | 3/8–16 | Galv-Krom® |
| BC910 1/2 | ½–13 | Galv-Krom® |

## B-914 Series

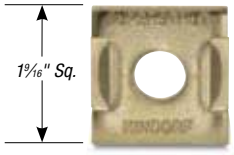



*Square nuts for use with channel and spot-type concrete inserts.*

| CAT. NO. | SIZE (IN.) | THICKNESS (IN.) | WT. LBS./C |
|---|---|---|---|
| B 914 1/4 | ¼–20 | 3/16 | 10.50 |
| B-914-3/8 | 3/8–16 | 5/16 | 13.25 |
| B-914-1/2 | ½–13 | 3/8 | 14.00 |
| B-914-5/8 | 5/8–11 | 3/8 | 14.00 |
| B-914-3/4 | ¾–10 | 3/8 | 12.00 |
| B-914-7/8 | 7/8–9 | 3/8 | 10.50 |
| B-914-3/8P | 3/8–18** | 3/8 | 12.00 |
| B-914-1/2P | ½–14** | 3/8 | 11.00 |

*** Standard Pipe Threads.*
*Standard finish: Galv-Krom®.*

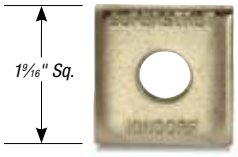
## Located Square Washers




| CAT. NO. | BOLT SIZE (IN.) | STD. CTN. |
|---|---|---|
| AB-241L-1/4 | ¼ | 100 |
| AB-241L-5/16 | 5/16 | 100 |
| AB-241L-3/8 | 3/8 | 100 |
| AB-241L-1/2 | ½ | 100 |
| AB-241L-5/8 | 5/8 | 100 |

*GoldGalv® is standard finish.*
*Add "EG" suffix for SilverGalv®.*

## Square Washers

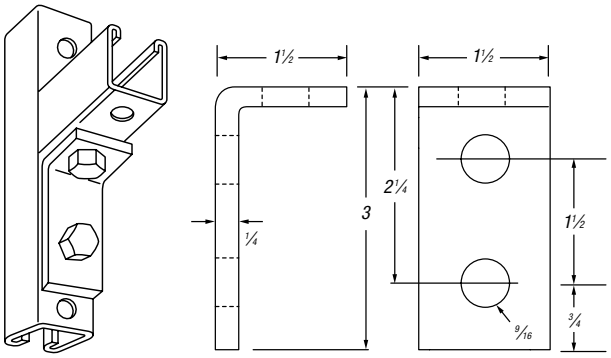



| CAT. NO. | BOLT SIZE (IN.) | STD. CTN. |
|---|---|---|
| AB-241-1/4 | ¼ | 100 |
| AB-241-5/16 | 5/16 | 100 |
| AB-241-3/8 | 3/8 | 100 |
| AB-241-1/2 | ½ | 100 |
| AB-241-5/8 | 5/8 | 50 |

*GoldGalv® is standard finish.*
*Add "EG" suffix for SilverGalv®.*

# Channels, Nuts and Fittings

## B-915 Two-Hole Angle Connector

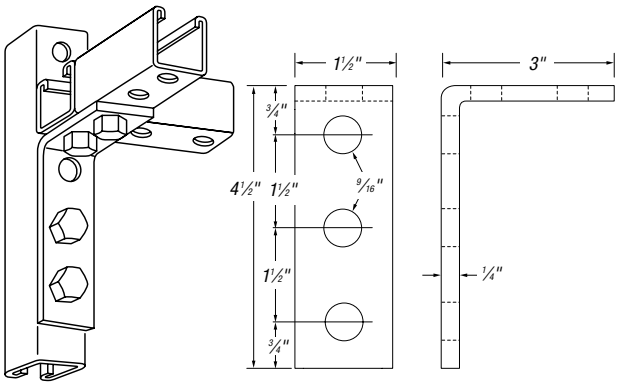



*Can also be used as side-beam connector to suspend ½" hanger rod.*

| CAT. NO. | FINISH |
|---|---|
| B 915 | Galv-Krom® |
| B-915EG | Electro-Galvanized |
| B-915HD | Hot-Dipped Galvanized |

*¼" steel. 39 lbs./C.*

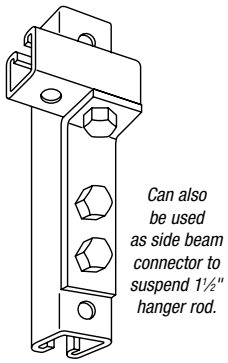
## B-917 Five-Hole Angle Connector



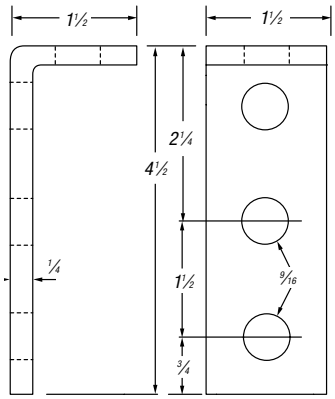

| CAT. NO. | FINISH |
|---|---|
| B 917 | Galv-Krom® |
| B-917EG | Electro-Galvanized |
| B-917HD | Hot-Dipped Galvanized |

*¼" steel. 68 lbs./C.*

## B-916 Three-Hole Angle Connector



*Can also be used as side beam connector to suspend 1½" hanger rod.*

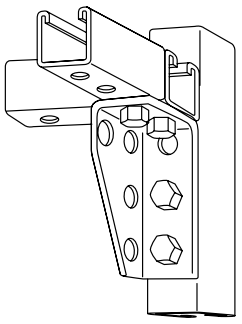


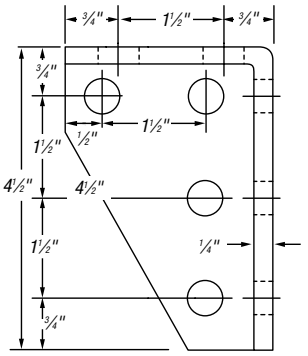

| CAT. NO. | FINISH |
|---|---|
| B 916 | Galv-Krom® |
| B-916HD | Hot-dipped galvanized |

*¼" steel. 46 lbs./C.*

## B-918 Left-Hand Gusset Connector








| CAT. NO. | FINISH |
|---|---|
| B 918 | Galv-Krom® |
| B-918EG | Electro-Galvanized |

*12 Ga. and ¼" steel. 102 lbs./C.*

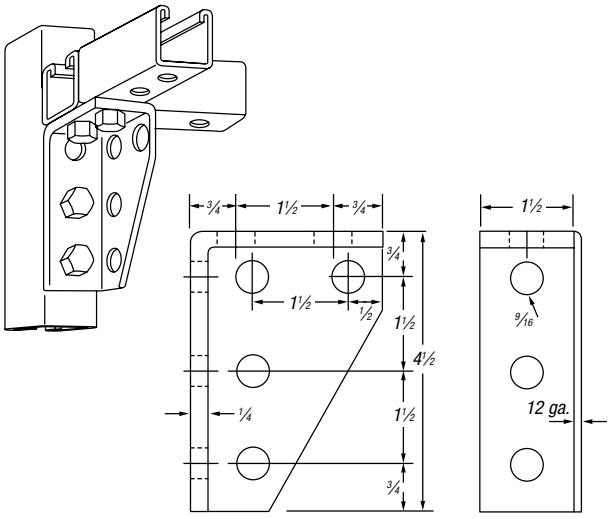


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# Channels, Nuts and Fittings



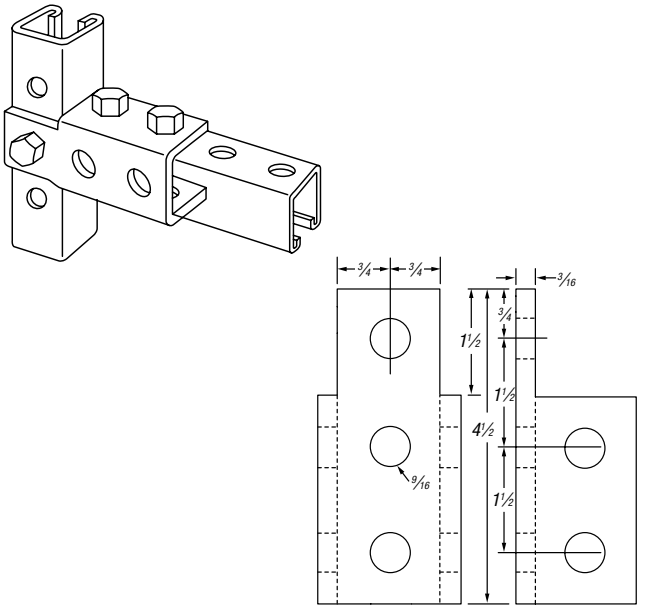
## B-919 Right-Hand Gusset Connector




| CAT. NO. | FINISH |
|---|---|
| B 918 | Galv-Krom® |
| B-918EG | Electro-Galvanized |

*12 Ga. and ¼" steel. 102 lbs./C.*

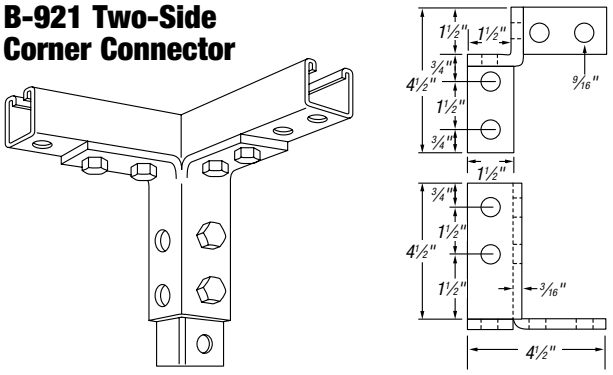
## B-920 End Connector




| CAT. NO. | FINISH |
|---|---|
| B 920 | Galv-Krom® |

*3/16" steel. 80 lbs./C.*

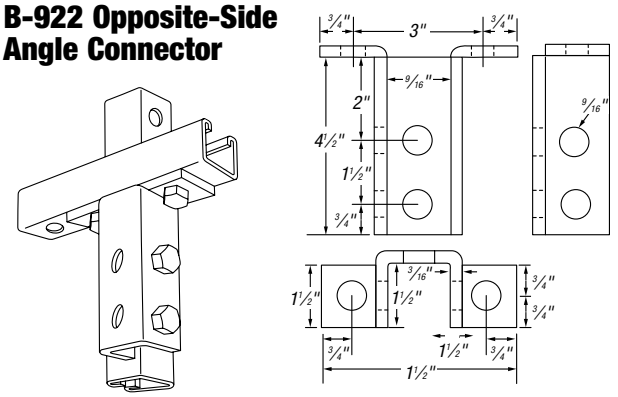
## B-921 Two-Side Corner Connector




| CAT. NO. | FINISH |
|---|---|
| B 921 | Galv-Krom® |

*3/16" steel. 101 lbs./C.*

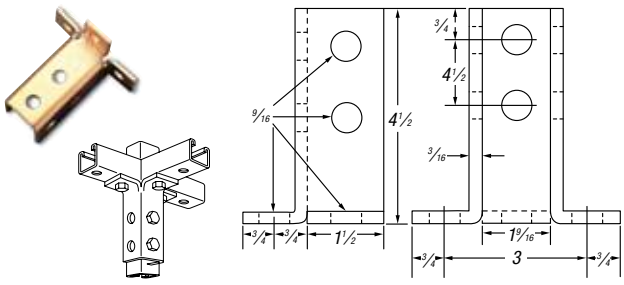
## B-922 Opposite-Side Angle Connector




| CAT. NO. | FINISH |
|---|---|
| B 922 | Galv-Krom® |

*3/16" steel. 124 lbs./C.*

## B-923 Three-Side Angle Connector

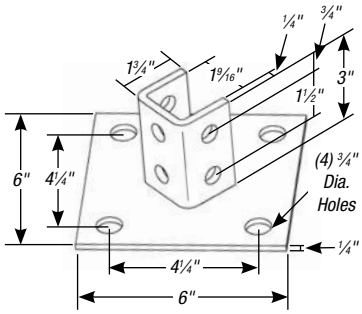



| CAT. NO. | FINISH |
|---|---|
| B 923 | Galv-Krom® |

*3/16" steel. 137 lbs./C.*

## B-924 Post Base Connector





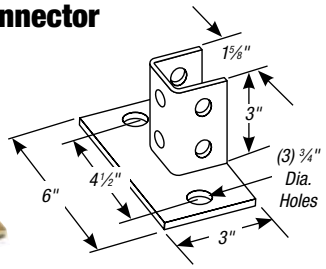

| CAT. NO. | FINISH |
|---|---|
| B 924 | Galv-Krom® |
| B-924-EG | SilverGalv® |

¼" steel 250 lbs./C.

For use with 1½" x 1½" channels.

## B-924FL Post Base Connector

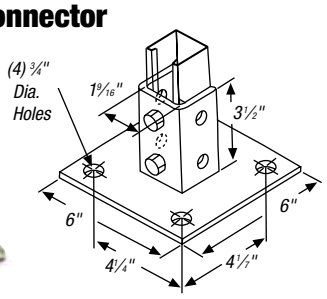





| CAT. NO. | FINISH |
|---|---|
| B 924FL | Galv-Krom® |
| B-924-FLEG | SilverGalv® |

## B-924SQ Post Base Connector

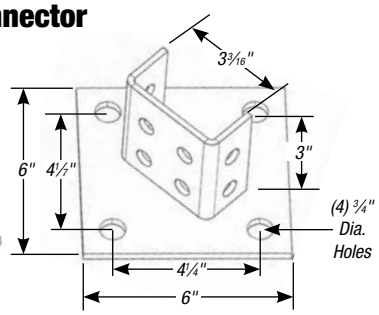





| CAT. NO. | FINISH |
|---|---|
| B 924SQ | Galv-Krom® |
| B-924SQEG | SilverGalv® |

## B-925 Post Base Connector

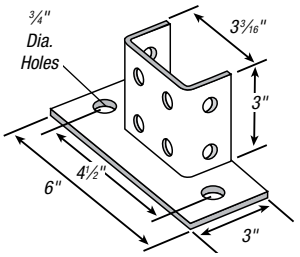





| CAT. NO. | FINISH |
|---|---|
| B-925 | Galv-Krom® |
| B-925-EG | SilverGalv® |

## B-925FL Post Base Connector

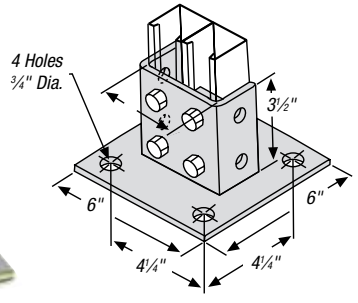





| CAT. NO. | FINISH |
|---|---|
| B-925FL | Galv-Krom® |
| B-925FLEG | SilverGalv® |

## B-925SQ Post Base Connector






| CAT. NO. | FINISH |
|---|---|
| B-925SQ | Galv-Krom® |
| B-925SQEG | SilverGalv® |



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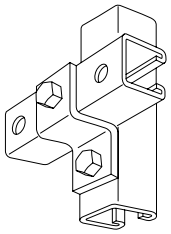
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Tel: 888.862.3289

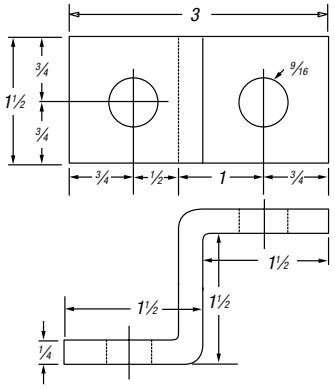
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# Channels, Nuts and Fittings



## B-926 Z Support



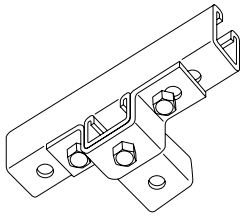


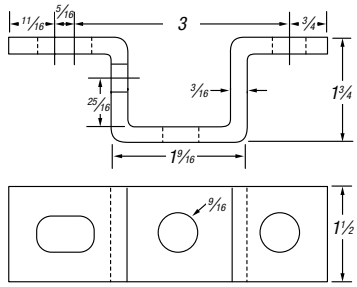

| CAT. NO. | FINISH |
|---|---|
| B 926 | Galv-Krom® |

*1/4" steel. 42 lbs./C.*

*For use with 1 1/2" x 1 1/2" channels.*

## B-927 U Support



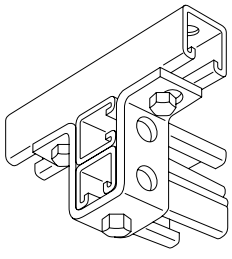


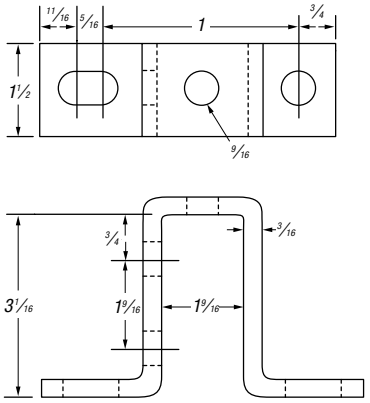

| CAT. NO. | FINISH |
|---|---|
| B 927 | Galv-Krom® |
| B-927EG | Electro-Galvanized |

*3/16" steel. 57 lbs./C.*

*For use with 1 1/2" x 1 1/2" channels.*

## B-928 Deep U Support

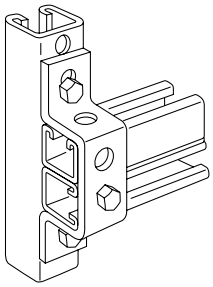


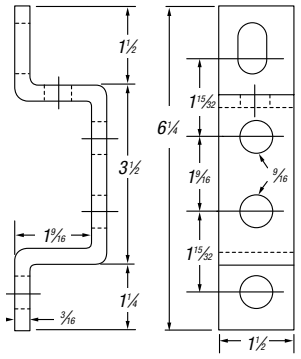



| CAT. NO. | FINISH |
|---|---|
| B 928 | Galv-Krom® |

*3/16" steel. 77 lbs./C.*

## B-929 Wide U Support

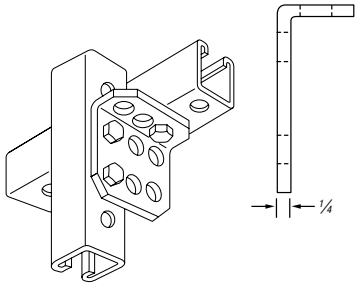


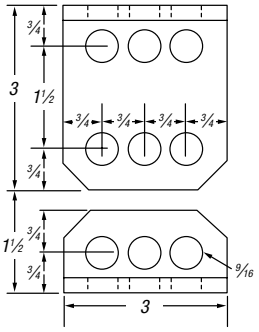



| CAT. NO. | FINISH |
|---|---|
| B 929 | Galv-Krom® |

*3/16" steel. 63 lbs./C.*

## B-930 Angle Support

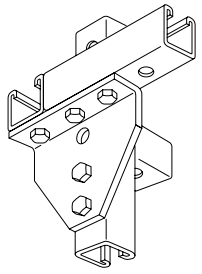


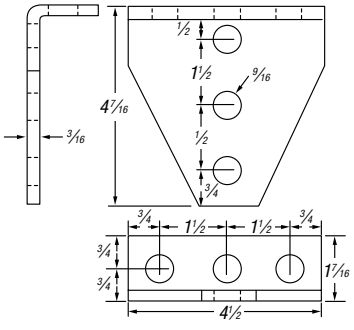




| CAT. NO. | FINISH |
|---|---|
| B 930 | Galv-Krom® |

*1/4" steel. 70 lbs./C.*

## B-932 Heavy Angle Connector



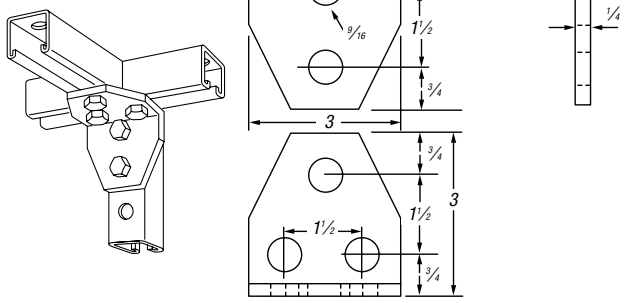



| CAT. NO. | FINISH |
|---|---|
| B 932 | Galv-Krom® |

*3/16" steel. 136 lbs./C.*

# Channels, Nuts and Fittings

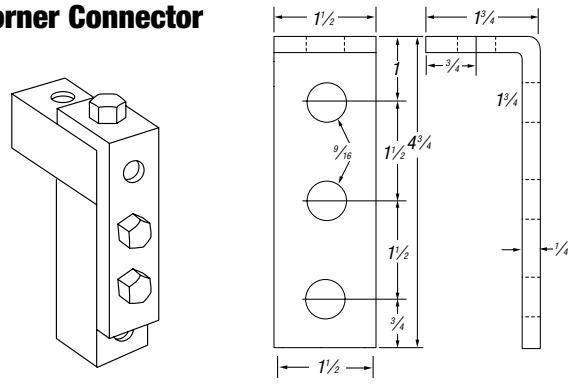
## B-933 Five-Hole Joint Connector




| CAT. NO. | FINISH |
|---|---|
| B 933 | Galv-Krom® |

*¼" steel. 96 lbs./C.*

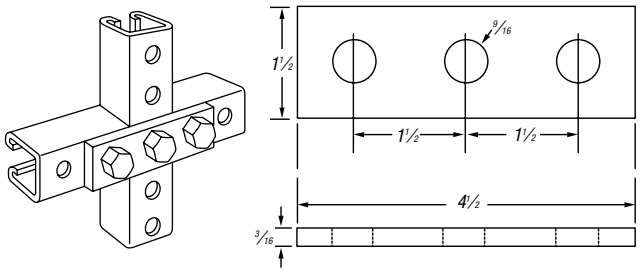
## B-934 Outside Corner Connector




| CAT. NO. | FINISH |
|---|---|
| B 934 | Galv-Krom® |

*¼" steel. 57 lbs./C.*

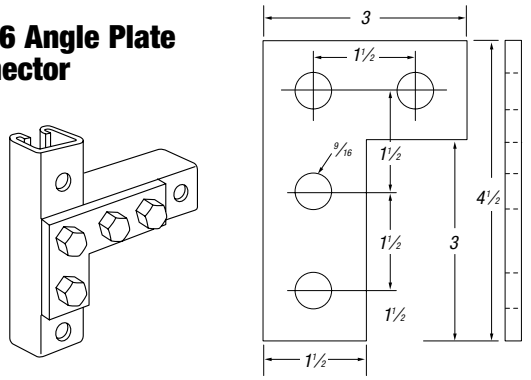
## B-935 Three-Hole Plate Connector




| CAT. NO. | FINISH |
|---|---|
| B 935 | Galv-Krom® |
| B-935-GR | Green Coated |
| B-935-EG | Electro-Galvanized |

*3/16" steel. 32 lbs./C.*

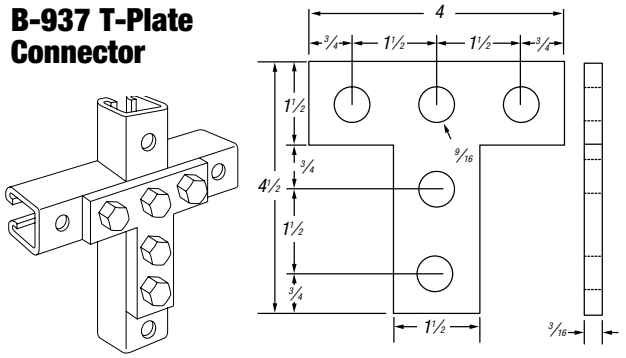
## B-936 Angle Plate Connector




| CAT. NO. | FINISH |
|---|---|
| B 936 | Galv-Krom® |
| B-936GR | Green Coated |
| B-936EG | Electro-Galvanized |

*3/16" steel. 42 lbs./C.*

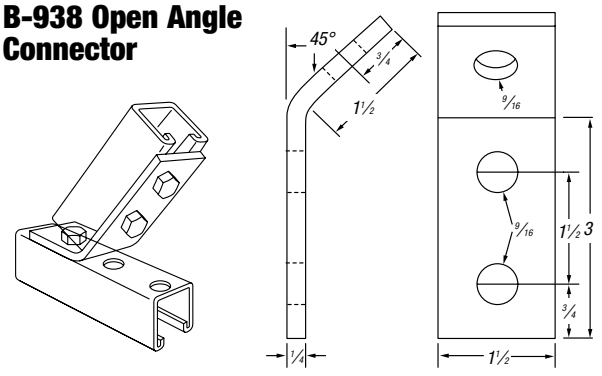
## B-937 T-Plate Connector




| CAT. NO. | FINISH |
|---|---|
| B 937 | Galv-Krom® |

*3/16" steel. 53 lbs./C.*

## B-938 Open Angle Connector




| CAT. NO. | FINISH |
|---|---|
| B 938 | Galv-Krom® |

*¼" steel. 42 lbs./C.*



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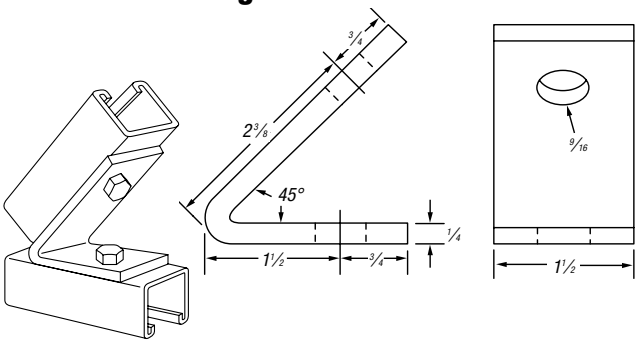
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Tel: 888.862.3289

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# Channels, Nuts and Fittings



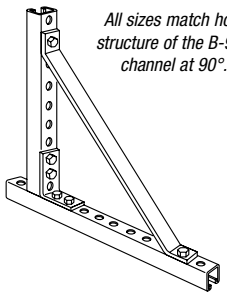
## B-939 Closed Angle Connector



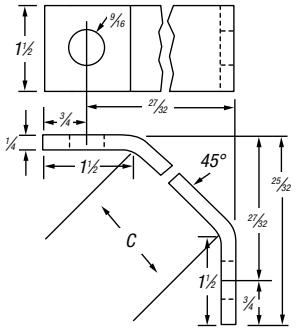

| CAT. NO. | FINISH |
|---|---|
| B 939 | Galv-Krom® |

*¼" steel. 50 lbs./C.*

## B-940 Corner Braces



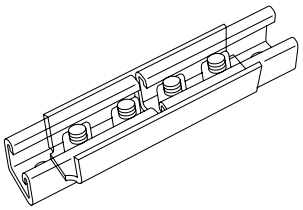
*All sizes match hole structure of the B-905 channel at 90°.*

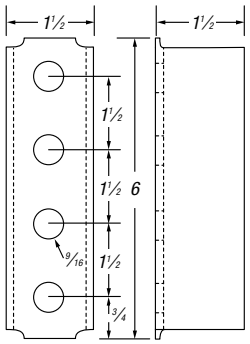



| CAT. NO. | DIMENSIONS (IN.) A | B | C | WT. IN. LBS./C |
|---|---|---|---|---|
| B 940 1 | 7½ | 6¾ | 8⅛ | 115 |
| B-940-2 | 13½ | 12¾ | 16⅝ | 212 |
| B-940-3 | 19½ | 18¾ | 25⅛ | 305 |

*¼" steel, Galv-Krom®.*

## B-941 Joiner for B-905 Channel



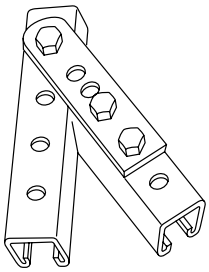


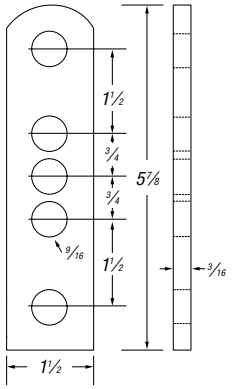

| CAT. NO. | FINISH |
|---|---|
| B 941 | Galv-Krom® |

*Order four B-910-1/2 nuts and four H-113-A cap screws separately.*

*12 ga. steel. 80 lbs./C.*

## B-942 Swivel Plate

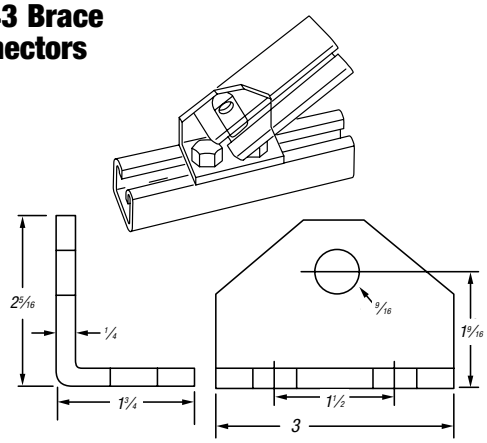





| CAT. NO. | FINISH |
|---|---|
| B 942 | Galv-Krom® |

*3/16" steel. 40 lbs./C.*

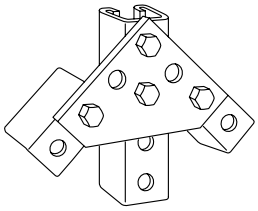
## B-943 Brace Connectors

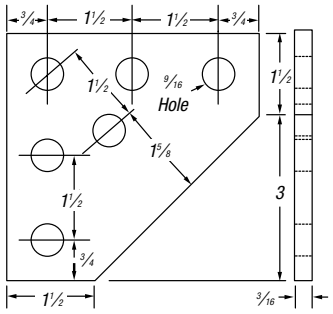



| CAT. NO. | FINISH |
|---|---|
| B 943 | Galv-Krom® |

*¼" steel. 66 lbs./C.*

## B-944 Double Brace Connector



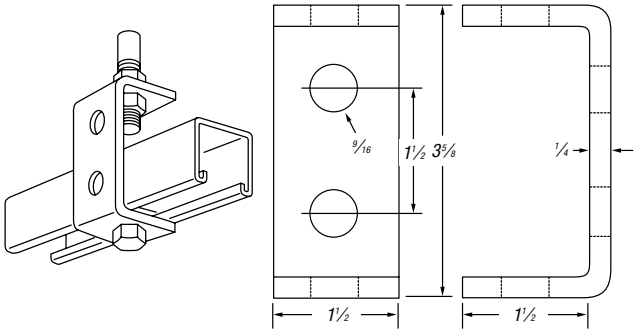



| CAT. NO. | FINISH |
|---|---|
| B 944 | Galv-Krom® |

*3/16" steel. 75 lbs./C.*

# Channels, Nuts and Fittings

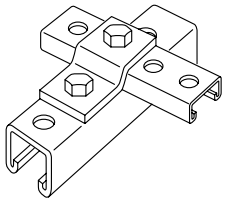
## B-945 Rod Connector



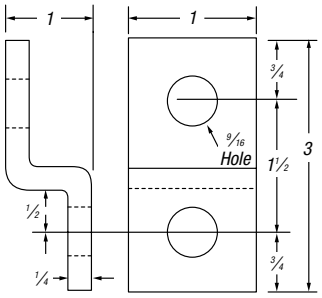

| CAT. NO. | FINISH |
|---|---|
| B 945 | Galv-Krom® |

¼" steel. 61 lbs./C.

## B-946 Z-Support



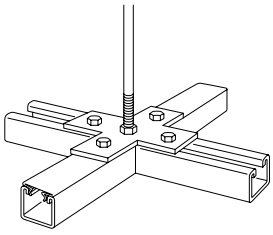
*For use with B-906 or B-907 channel only.*

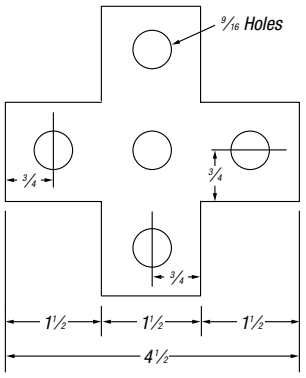



| CAT. NO. | FINISH |
|---|---|
| B 946 | Galv-Krom® |

¼" steel. 34 lbs./C.

## B-947 Cross-Plate Connector

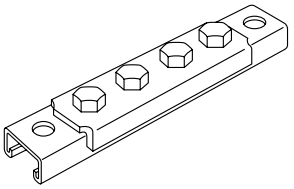


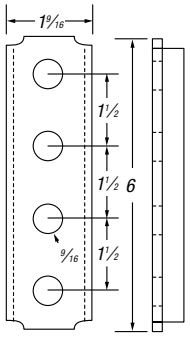



| CAT. NO. | FINISH |
|---|---|
| B 947 | Galv-Krom® |

¼" steel. 55 lbs./C.

## B-948 Joiner for B-907 Channel





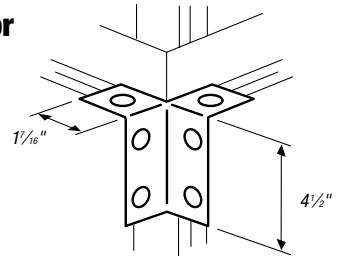

| CAT. NO. | FINISH |
|---|---|
| B 948 | Galv-Krom® |

*Order four B-910-1/2 nuts and four H-113-A cap screws separately.*

*12 ga. steel. 51 lbs./C.*

## B-951 Wing Connector

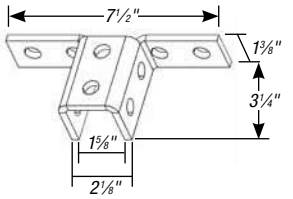





| CAT. NO. | FINISH |
|---|---|
| B-951 | Galv-Krom® |

## B-952 Wing Connector

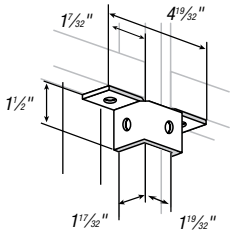





| CAT. NO. | FINISH |
|---|---|
| B-952 | Galv-Krom® |

## B-953 Wing Connector

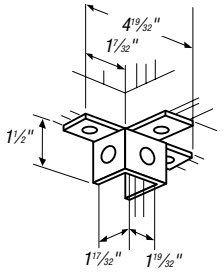





| CAT. NO. | FINISH |
|---|---|
| B-953 | Galv-Krom® |

## B-954 Wing Connector






| CAT. NO. | FINISH |
|---|---|
| B-954 | Galv-Krom® |



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Fax: 901.252.1354

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Tel: 888.862.3289

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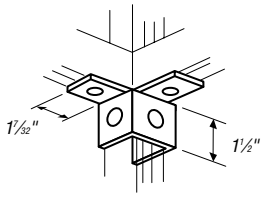
# Channels, Nuts and Fittings



## B-957 Wing Connector



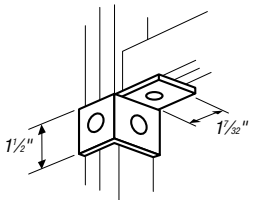
| CAT. NO. | FINISH |
|---|---|
| B-957 | Galv-Krom® |




## B-958L Wing Connector



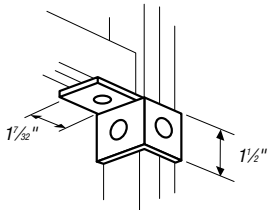
| CAT. NO. | FINISH |
|---|---|
| B-958L | Galv-Krom® |




## B-958R Wing Connector

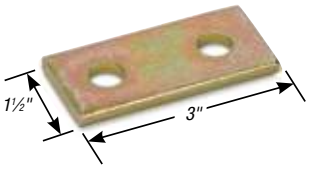


| CAT. NO. | FINISH |
|---|---|
| B-958R | Galv-Krom® |



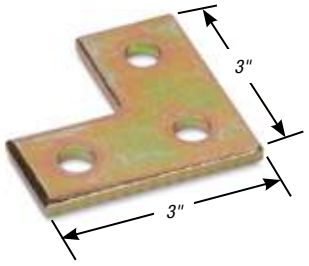

## B-960 Plate Connector

| CAT. NO. | FINISH |
|---|---|
| B-960 | Galv-Krom® |



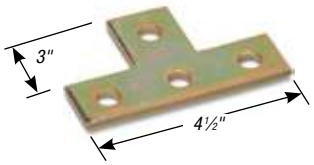

## B-961 Plate Connector

| CAT. NO. | FINISH |
|---|---|
| B-961 | Galv-Krom® |




## B-962 Plate Connector

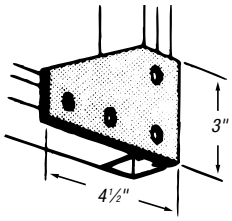
| CAT. NO. | FINISH |
|---|---|
| B-962 | Galv-Krom® |




## B-964 Plate Connector



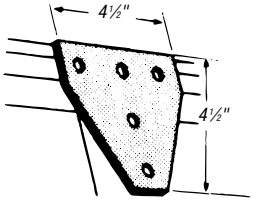
| CAT. NO. | FINISH |
|---|---|
| B-964 | Galv-Krom® |




## B-965 Plate Connector



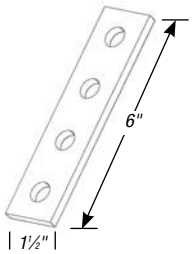
| CAT. NO. | FINISH |
|---|---|
| B-965 | Galv-Krom® |




## B-966 Plate Connector



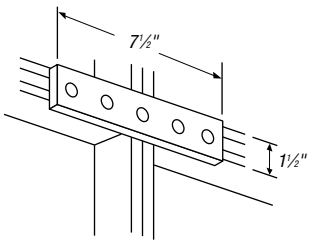
| CAT. NO. | FINISH |
|---|---|
| B-966 | Galv-Krom® |




## B-967 Plate Connector



| CAT. NO. | FINISH |
|---|---|
| B-967 | Galv-Krom® |



# Solar Panel Hold-Down Clamps




### Rugged, Corrosion-Resistant Materials

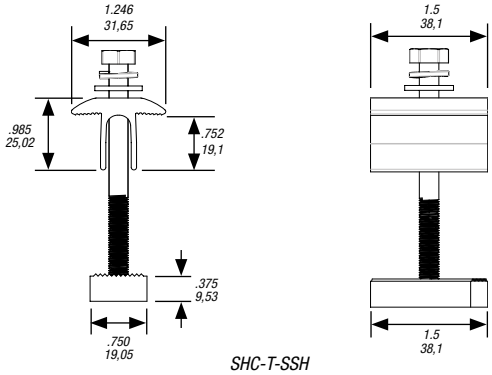
- Body and channel nut made from high-strength extruded aluminum alloy 6061-T6 with clear anodized finish
- ¼–20 x 3" bolt, lock washer and flat washer made from Type 304 stainless steel

### Labor-Saving Features

- Hardware is pre-assembled to clamp to save time and labor for the installer
- Self-oriented channel nut is staked to bolt to ensure fast, easy installation

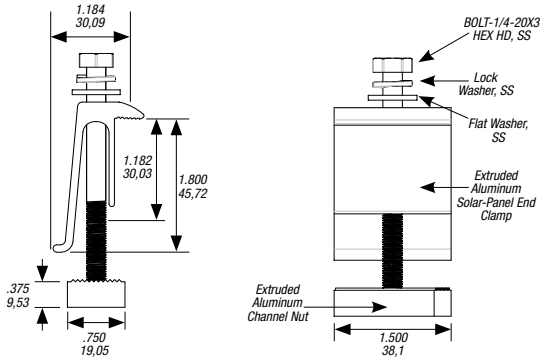
### Versatile Design

- Can be used with both 1½" Kindorf® channel and 1⅝" strut systems




SHC-T-SSH

| | CAT. NO. SHC-T-SSH | CAT. NO. SHC-L-SSH |
|---|---|---|
| ***Applied Load Direction*** | ***Allowable Load (lbs.)*** | |
| Sliding | 331 | 99 |
| Tension | 1535 | 568 |
| Transverse | 702 | 58 |
| Tighten Torque Value (lbs.-in.), Minimum | 100 | 100 |

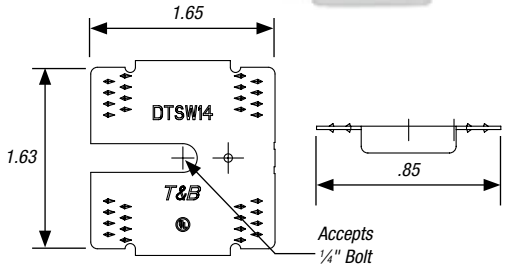



SHC-L-SSH

# Solar Panel Grounding Washer




- Slotted for quicker installation — no need to disassemble clamp assembly
- Bent tab ensures washer stays in place during installation
- Can be used with both 1½" Kindorf® channel and 1⅝" strut systems
- Made from tin-plated, case-hardened steel
- Can be used on carbon steel or aluminum strut channel
- Complies with UL 467 (UL® Listed E9809)
- Designed for use with ¼" bolt installed with minimum torque value of 100 lbs.-in.




| CAT. NO. | DESCRIPTION |
|---|---|
| DTSW14 | Solar Panel Grounding Washer |



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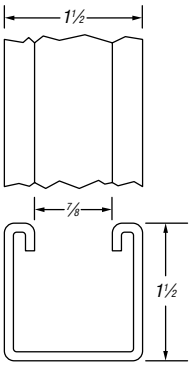
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# Channels, Nuts and Fittings

## B-900 Channel — Stainless Steel — 1⁵/₈" x 1⁵/₈"

- Connection by means of continuous slot





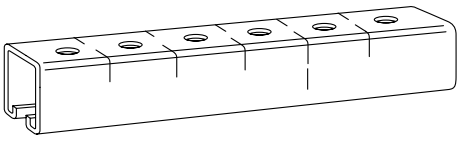

| CAT. NO. | DESCRIPTION |
|---|---|
| B-900-10SS | Type 304 |
| B-900-10316-SS | Type 316 |

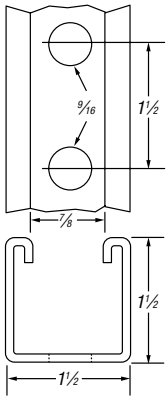
*Use H-113-B bolts and B-910-1/2 or B-911-1/2 stainless steel nuts for mounting fittings.*

*Available 20 Ft. lengths.*

## B-905 Channel — Stainless Steel — 1⁵/₈" x 1⁵/₈"

- ⁹/₁₆" holes on 1⅝" centers punched in channel base. Connection also by means of continuous slot






| CAT. NO. | DESCRIPTION |
|---|---|
| B-905-10SS | Type 304 |
| B-905-10-316SS | Type 316 |

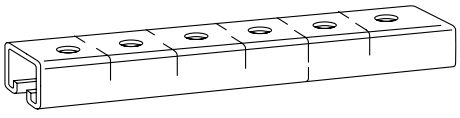
*Use H-113-B bolts and B-910-1/2 or B-911-1/2 stainless steel nuts for mounting fittings.*

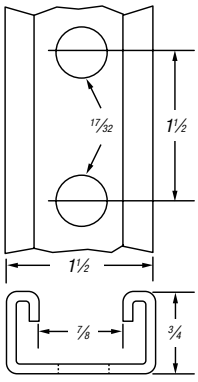
*Scribe marks designate mid-point between holes for accurate field cutting.*

*Available 20 Ft. lengths.*

## B-907 Channel — Stainless Steel

- Connection by means of continuous slot or ⁹/₁₆" holes on 1⅝" centers






| CAT. NO. | DESCRIPTION |
|---|---|
| B-907-10SS | Type 304 |
| B-907-10316SS | Type 316 |

*Available 20 Ft. lengths.*

## B-911 Spring Nut — Stainless Steel



| CAT. NO. | SIZE (IN.) | THICKNESS (IN.) | LBS./C |
|---|---|---|---|
| B-911-3/8-SS† | ⅜–16 | 3/16 | 12.5 |
| B-911-1/2-SS† | ½–13 | 5/16 | 16.0 |

*†Self-holding clamping nut with spring attached. For use with 1⅝" deep channels.*

## Kindorf Straps for Rigid Conduit and Pipe — Type 304 Stainless Steel



*C-105*

| CAT. NO. | RIGID CONDUIT OR PIPE SIZE (IN.) |
|---|---|
| C-105-1/2SS | ½ |
| C-105-3/4SS | ¾ |
| C-105-1SS | 1 |
| C-105-1-1/4SS | 1¼ |
| C-105-1-1/2SS | 1½ |
| C-105-2SS | 2 |
| C-105-2-1/2SS | 2½ |
| C-105-3SS | 3 |
| C-105-3-1/2SS | 3½ |
| C-105-4SS | 4 |

*Add 316 suffix for Type 316 Stainless Steel.*

## Cobra® Cable and Pipe Clamp — Type 316 Stainless Steel



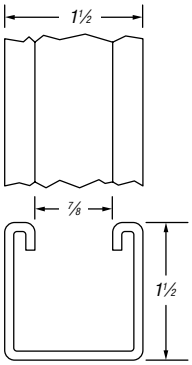
| CAT. NO. | FOR EMT AND RIGID CONDUIT TRADE SIZE (IN.) | CABLE O.D. RANGE (IN.) | STATIC LOAD LIMIT (LB) SAFETY FACTOR = 4 | STD CTN. |
|---|---|---|---|---|
| CPC025SS6 | ¼ | .312–.600 | 200 | 100 |
| CPC050SS6 | ½ | .650–.890 | 200 | 100 |
| CPC075SS6 | ¾ | .860–1.110 | 200 | 100 |
| CPC100SS6 | 1 | 1.100–1.400 | 200 | 100 |
| CPC125SS6 | 1¼ | 1.400–1.725 | 200 | 50 |
| CPC150SS6 | 1½ | 1.690–1.980 | 200 | 50 |
| CPC200SS6 | 2 | 1.980–2.576 | 200 | 50 |
| CPC250SS6 | 2½ | 2.576–3.060 | 350 | 25 |
| CPC300SS6 | 3 | 3.060–3.626 | 350 | 25 |
| CPC350SS6 | 3½ | 3.626–4.126 | 350 | 25 |
| CPC400SS6 | 4 | 4.126–4.626 | 350 | 25 |

# Channels, Nuts and Fittings

## B-900-AL Aluminum Channel

- Connection by means of continuous slot






**Aluminum (Extruded 6063-T6)**

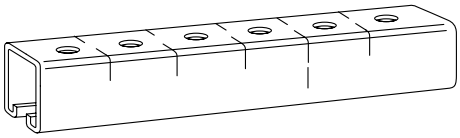
| CAT. NO. | DESCRIPTION |
|---|---|
| B-900-AL | 1½" x 1½" x .1046; 58 lbs./C. ft. |

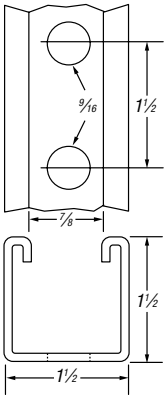
*Use H-113-B bolts and B-910-1/2, B-911-1/2 or B-911-1/2-TL steel nuts for mounting fittings.*

*10 ft. lengths only.*

## B-905-AL Aluminum Channel

- 9⁄16" holes on 1½" centers punched in channel base. Connection also by means of continuous slot.






**Aluminum (Extruded 6063-T6)**

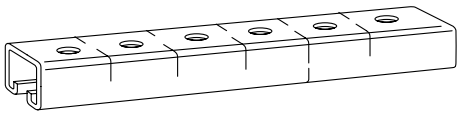
| CAT. NO. | DESCRIPTION |
|---|---|
| B-905-AL | 1½" x 1½" x .1046; 56 lbs./C. ft. |

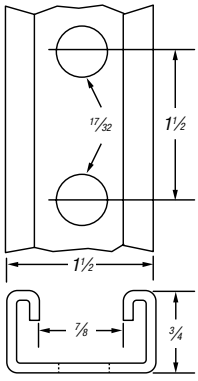
*Use H-113-B bolts and B-910-1/2 or B-911-1/2 steel nuts for mounting fittings.*

*10 ft. lengths only.*

## B-907-AL Aluminum Channel

- Connection by means of continuous slot or 9⁄16" holes on 1½" centers





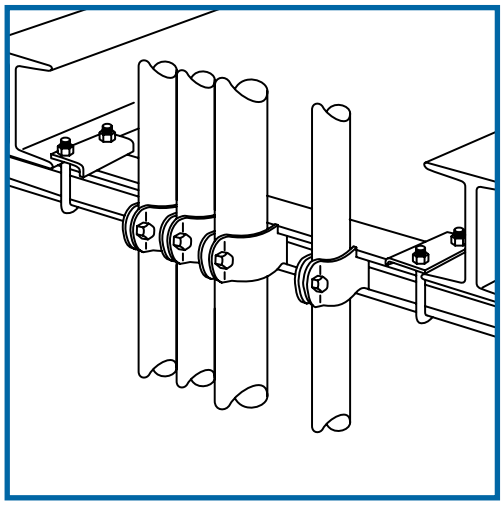

**Aluminum (Extruded 6063-T6)**

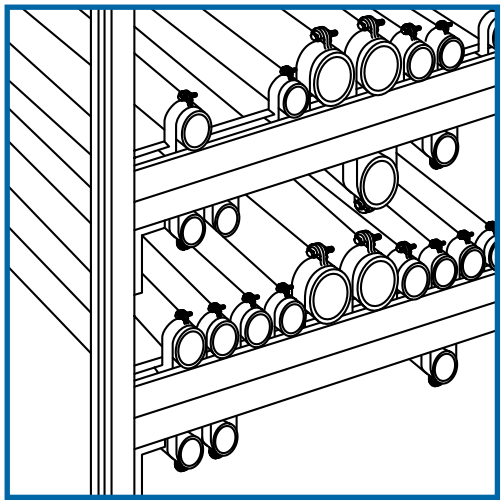
| CAT. NO. | DESCRIPTION |
|---|---|
| B-907-AL | 1½" x ¾" x .1046; .37 lbs. /C. ft. |

*Use H-113-A bolts and B-910-1/2 or B-912-1/2 steel nuts for mounting fittings.*

*Holes on B-900 series fittings match channel holes.*

## Kindorf Straps for Rigid Conduit and Pipe — Aluminum





*Steel beam mounting application. Aluminum straps with stainless steel hardware. Frame assembly carries multiple conduit runs.*

| CAT. NO. | RIGID CONDUIT OR PIPE SIZE (IN.) | ALUMINUM STRAP MATERIAL THICKNESS | WT. LBS./C |
|---|---|---|---|
| C-105AL-1/2 | ½ | 14 | 7 |
| C-105AL-3/4 | ¾ | 14 | 8 |
| C-105AL-1 | 1 | 14 | 9 |
| C-105AL-1-1/4 | 1¼ | 14 | 10 |
| C-105AL-1-1/2 | 1½ | 12 | 12 |
| C-105AL-2 | 2 | 12 | 14 |
| C-105AL-2-1/2 | 2½ | 12 | 16 |
| C-105AL-3 | 3 | 12 | 18 |
| C-105AL-3-1/2 | 3½ | ⅛" | 22 |
| C-105AL-4 | 4 | ⅛" | 24 |



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# PVC-Coated Steel Channel and Fittings for Highly Corrosive Atmospheres

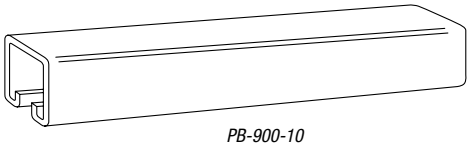
The complete and lasting corrosion protection of conduit with polyvinyl chloride coating is now extended to the supporting system. No longer will installers be faced with the problem of installing PVC-coated conduit or other corrosion-resistant material only to have the support system require constant maintenance or replacement.

PVC-coated Kindorf® channel and fittings complement other corrosion-resistant services installed in chemical plants, foundries, meat packing plants, oil refineries, paper mills, sewage treatment plants and other locations.

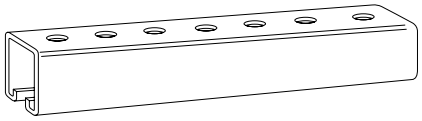
### *PVC Plastic-Coated Kindorf® Channel Support System for Installations in Severely Corrosive Atmospheres*

#### PVC Coating

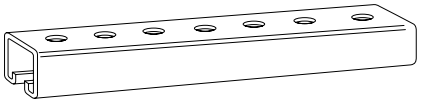
The coating is a polyvinyl chloride (PVC) plastic coating that is permanently fused to the Kindorf® Galv-Krom® galvanized steel channels, fittings and accessories. The fused-melt mixed powder (PVC) coating is 15 mils. (.015") ±5 mils thickness.



*PB-900-10*



*PB-905-10*



*PB-907-10*

#### Specifications

- Hardness: 90+ Shore A Durometer
- Dielectric Strength (volts/mil @ 60 cycles): 1100
- Flammability: Self-extinguishing
- Tensile strength: 2000 p.s.i.
- Percent elongation: 180%
- Aging: 14,000 hours Atlas Weatherometer

The material is a thermoplastic and will soften in high temperatures. Service life will be decreased if the normal operating temperature of the support system is in excess of 225° F.

The service life expectancy is 20 years in normal weathering, with no indication of hardening, softening or other physical change.

The Kindorf® plastic-coated support system has excellent resistance to the corrosive atmospheres created in modern processing industries which materially reduce the life of standard products and cause high maintenance costs. The fused-on coating of PVC plastic to a pre-galvanized steel effectively bars corrosive action by eliminating "undercreep" or "corrosion travel". There is practically no maintenance. No special tools are required for installation of the Kindorf® PVC system.

The Kindorf® PVC-coated support system, combining the strength of steel and the corrosion resistance of plastic, is designed for mechanical support of plastic and plastic-coated conduits and pipes. Kindorf® PVC meets the requirements for corrosion resistance in those environments generally found in chemical processing plants, oil refineries, steel mills, foundries, meat packing and other food processing plants, fertilizer plants, textile and paper processing industries.

## PVC-Coated Steel Channel

| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| **PB-900-10** | 1½" x 1½" x 12 ga.<br>Solid Base | 168 |
| **PB-905-10** | 1½" x 1½" x 12 ga.<br>⅜" Holes on 1½" Centers | 160 |
| **PB-907-10** | 1½" x ¾" x 14 ga.<br>⅜" Holes on 1½" Centers | 82 |

*Standard 10 ft. lengths.*



*PBH-193*

## PVC-Coated Steel Hanger Rod

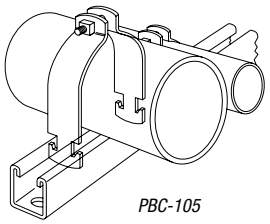
| CAT. NO. & SIZE | DESCRIPTION | WT. LBS./C |
|---|---|---|
| **PBH-193-3/8-6** | ⅜" x 6' | 174 |
| **PBH-193-3/8-10** | ¾" x 10' | 290 |
| **PBH-193-1/2-6** | ½" x 6' | 324 |
| **PBH-193-1/2-10** | ½" x 10' | 540 |

# Channels, Nuts and Fittings

## PVC-Coated Steel Conduit Straps

| CAT. NO. & SIZE | DESCRIPTION (IN.) | WT. LBS./C |
|---|---|---|
| PBC-105-3/4 | ¾ | 16 |
| PBC-105-1 | 1 | 18 |
| PBC-105-1-1/4 | 1¼ | 20 |
| PBC-105-1-1/2 | 1½ | 29 |
| PBC-105-2 | 2 | 33 |

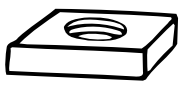
| CAT. NO. & SIZE | DESCRIPTION (IN.) | WT. LBS./C |
|---|---|---|
| PBC-105-2-1/2 | 2½ | 38 |
| PBC-105-3 | 3 | 45 |
| PBC-105-3-1/2 | 3½ | 58 |
| PBC-105-4 | 4 | 64 |



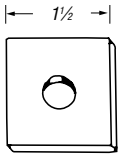
PBC-105

## PVC-Coated Hardware

| CAT. NO. & SIZE | DESCRIPTION | WT. LBS./C |
|---|---|---|
| PB-910-3/8 | ⅜–16 Steel Nut | 9 |
| PB-910-1/2 | ½–13 Steel Nut | 10 |
| PBH-119C-3/8 | 1½" Square Washer with 7⁄16" Hole | 12 |
| PBH-119D-1/2 | 1½" Square Washer with 27⁄32" Hole | 14 |
| PBH-120 | Saddle Washer for ⅜" or ½" Rod | 7 |



PB-910



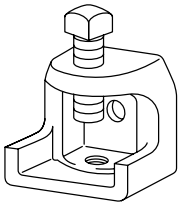

PBH-119



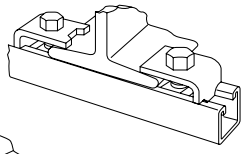
PBH-120

## PVC-Coated Beam Clamps

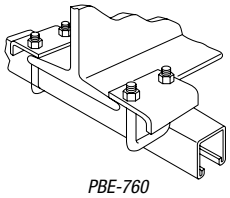
| CAT. NO. & SIZE | DESCRIPTION | WT. LBS./C |
|---|---|---|
| PB-502 | 2"– ⅞" Jaw Tapped ⅜-16 | 95 |
| PB-508 | 2½"–2" Jaw Tapped ½-13 | 182 |
| PBE-760-2 | For Use with PB-900, PB-905, PB-906 or PB-907 | 80 |
| PBE-763 | For Use with All Channels | 25 |



PB-500 Series

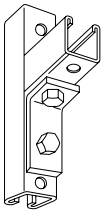


PBE-763

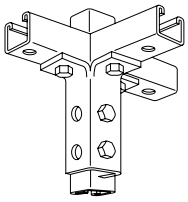


PBE-760

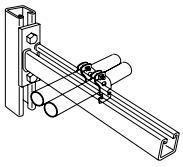
## PVC-Coated Framing Fittings



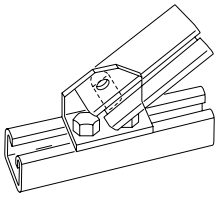
PB-915



PB-923

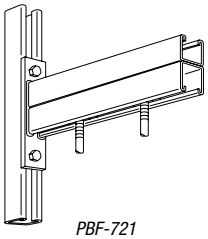


PBF-720

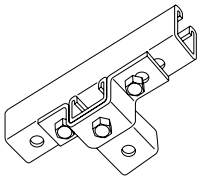


PB-943

| CAT. NO. & SIZE | DESCRIPTION | WT. LBS./C |
|---|---|---|
| PB-915 | 2-Hole Angle Connector | 40 |
| PB-923 | 3-Side Angle Connector | 137 |
| PB-927 | U Support | 53 |
| PB-943 | Double-Brace Connector | 66 |
| PBF-720-18 | Single-Channel Wall Bracket — 18" | 275 |
| PBF-721-18 | Double-Channel Wall Bracket — 18" | 568 |



PBF-721



PB-927



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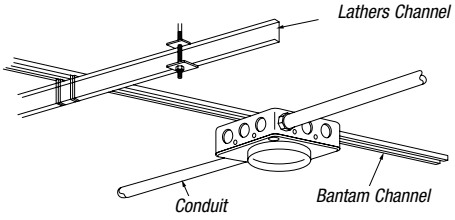
## For the support of light- and medium-weight equipment in electrical and mechanical applications.

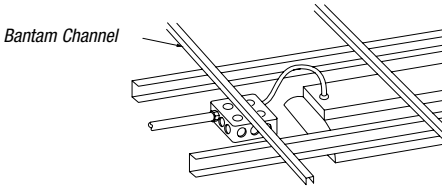
# Bantam Channels

Bantam Channels simplify the support of overhead fixtures, conduits, pipes and boxes in suspended ceiling installations where they can be supported on runs of lathers channel or directly from bar joists or ceiling beams. Ribbed channels may also be mounted on concrete forms and used as low-cost continuous-slot concrete inserts.

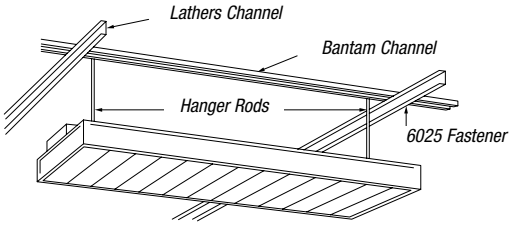
Installed slot down the open slot accommodates and enables easy positioning of accessory fittings or ¼" hanger rod to support light- or medium-weight equipment.

The use of Kindorf® Channel Bars provides a ready made system of bars and accessories designed to eliminate costly and time-consuming on-the-job improvising.

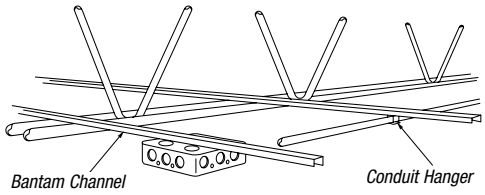


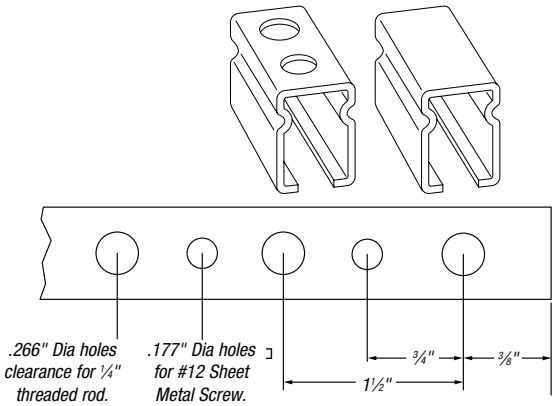

Box mounted on Bantam Channel to feed fixtures.

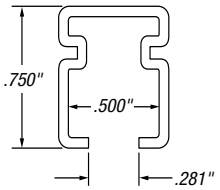



Suspended Fixture




Typical mounting on bar joists

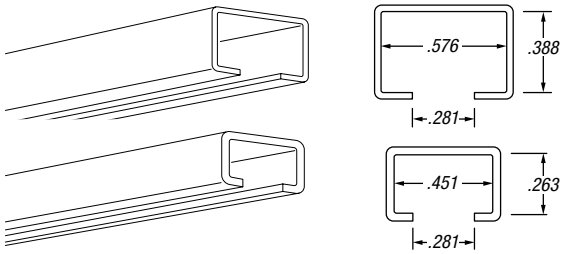



### Ribbed Channels (extra strength)

| CAT. NO. | DESCRIPTION | WT. LBS./C FT. |
|---|---|---|
| **6029 H** | 16 gauge (.060") Ribbed Channel with Holes | 30 |
| **6029** | 16 gauge (.060") Ribbed Channel | 45 |

*Channels are produced in 10-ft. lengths. Pre-galvanized steel.*



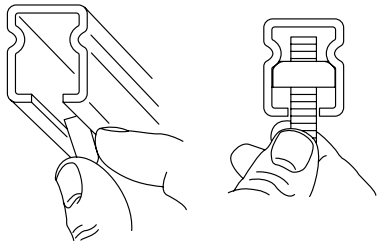

### Lightweight Channels

| CAT. NO. | DESCRIPTION | WT. LBS./C FT. |
|---|---|---|
| **6013** | 20 gauge (.034") Lightweight Channel | 17 |
| **6014** | 18 gauge (.044") Lightweight Channel | 16 |

*Channels are produced in 10-ft. lengths. Pre-galvanized steel.*

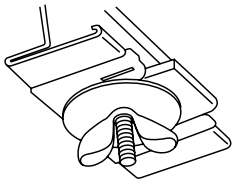
# Low-Cost Techniques for Bantam Channel — Fast, Easy Hanging with Standard Fittings

### Groove Holds Nut Squarely — Nut Won't Rotate.



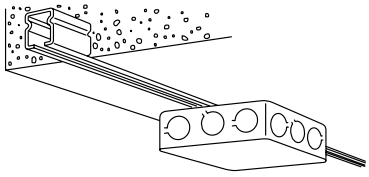
***CAT. NO. H-116-A-1/4***
*square nut tips in anywhere.*

### T-Bar Clip



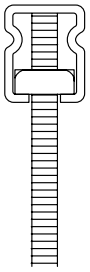
***CAT. NO. 6075***
*Mounts electrical fixtures to exposed grid acoustical ceilings. Fits 15/16" or 1" bar face. Load Rating: 100 lbs. Safety factor of 4. Furnished complete with cupped washer and wing nut.*

### Bantam Channel for Low-Cost, Continuous-Slot Concrete Inserts.



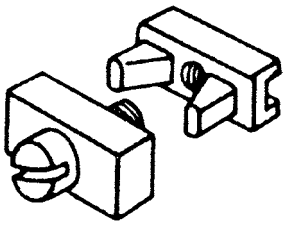
***CAT. NO. 6029***
*Maximum recommended loads 200 lbs.*

### Insert Rod Full Height of Channel for Rigidity.



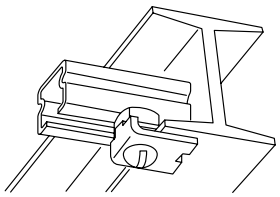
***CAT. NO. H-193-1/4***
*hanger rod.*

### Fastener and Carrier, (Complete Assembly) 6 lbs./C



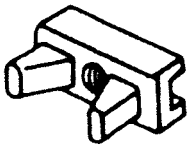
***CAT. NO. 6016***

### Beam Flange Clip



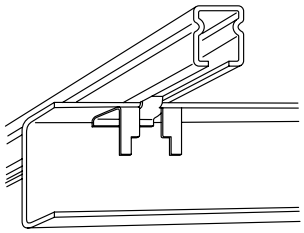
***CAT. NO. 6024***
*Secures channel to I-beams, angle iron or bar joists with flanges not exceeding ¼" thickness.*

### Channel Carrier 2 lbs./C



***CAT. NO. 6017***

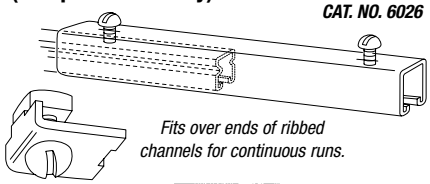
### Hung Ceiling Carrying Channel




***CAT. NO. 6025***
*Secures channel to lathers channel or other ceiling-carrying channels.*

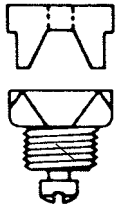
### Fixture Stud and Carrier, (Complete Assembly) 7 lbs./C

***CAT. NO. 6026***



*Fits over ends of ribbed channels for continuous runs.*

***CAT. NO. 6015***



***C-18 N.P.S.***



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# C105 and C106 Series Pipe Straps

Kindorf® Pipe Straps are designed to be twist inserted anywhere along the slot side of the channel. Pipes can be placed as closely as pipe couplings permit.

Single or multiple runs of pipe and cable are secured easily and economically by Kindorf® supports. In the racking of multiple runs of pipe, for example, C-105 Straps are quickly twist inserted into a channel slot and the pipe is installed by the tightening of a single screw. There are no holes to drill and position adjustment is made simple by sliding the strap along the channel slot. Runs of pipe or conduit can be spaced with complete freedom, as close as conduit couplings permit.

For single runs, the C-149 Pipe Hanger saves installation time by allowing the conduit or pipe to be laid in place after the hanger is mounted. The versatile C-149 can be suspended from hanger rod or bolted directly to the wall, and pipe insulation, when needed, can be installed without removing the pipe from the hanger.

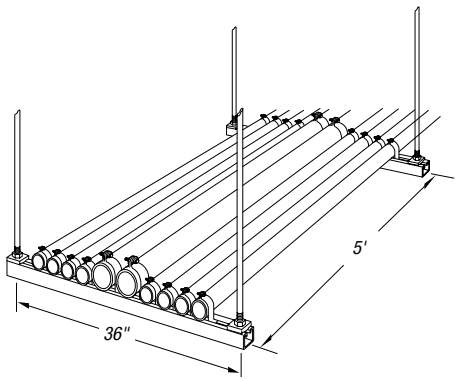
These are but two examples of how Kindorf® products deliver lower installed costs. Whether it be a problem of tight spacing, adjustment or alignment of adequate spacing between hangers, there's a Kindorf® support to solve it.

Kindorf® pipe and cable supports are engineered to provide safe and secure installations. The majority of Kindorf® supports are protected by the exclusive Galv-Krom® finish, including threaded components.

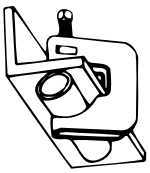
There's a wide range of Kindorf® pipe and cable supports to meet almost every job condition, installed either in combination with channel or individually secured to the structure surface.

### Some unique features of the straps include:

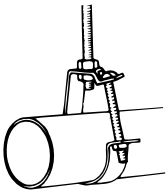
- Bolt head is combination slot and hexhead for flexibility of attachment
- Square nut is captivated on the shoulder for easy one-handed tightening
- Straps are interchangeable with 1⅝" strut for broader application
- Straps are shipped assembled so counting and sorting are easier
- Pipe or conduit sizes are shown on the strap for easy identification



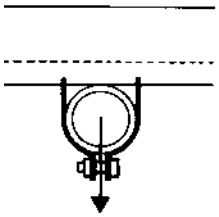

*Trapeze application supporting multiple conduit runs.*



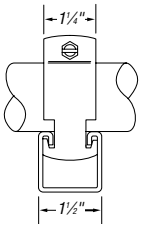
*C-247 Beam clamp supports pipe.*

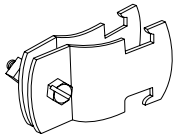


*Pipe supported by C-149 lay-in hanger.*

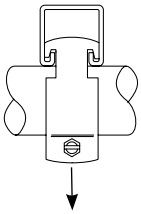


*Design Loads*



*All Kindorf® Straps are pre-assembled for easy handling and sorting.*



*Design Load*

# The new standard for heavy-duty applications.

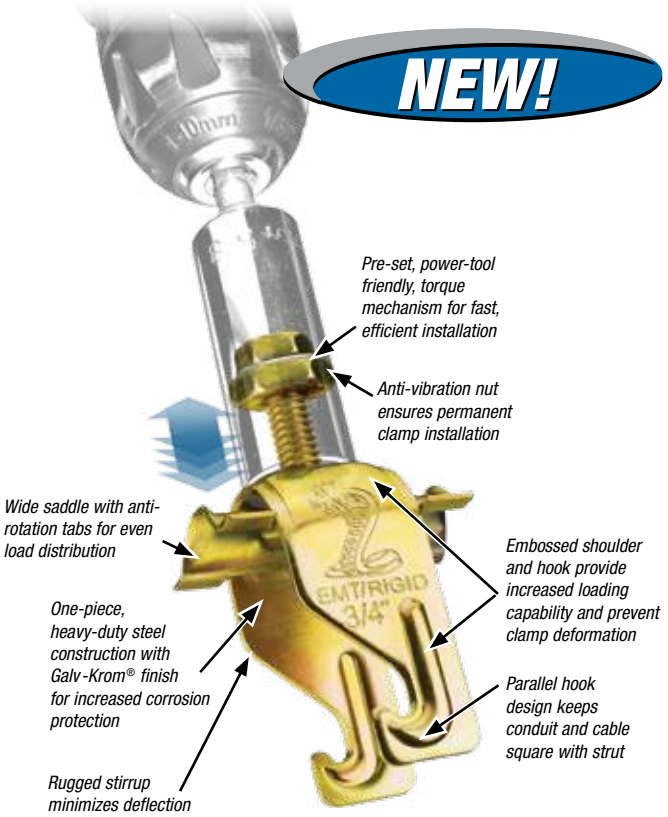
## LOC-KING™ Cobra® One-Piece Cable and Pipe Clamp

The LOC-KING™ Cobra® heavy-duty pipe and cable clamp adds two new design innovations to the heavy-duty features of the original King Cobra® clamp.

First, a pre-set torque mechanism takes the guesswork out of installation, ensuring optimum torque and eliminating excess pressure on cables. Since the torque is pre-set, LOC-KING™ Cobra® clamps are ideally suited for use with power tools, making installation faster and more efficient than ever.

Second, the incorporation of an anti-vibration nut means that once installed, LOC-KING™ Cobra® clamps remain securely installed, even in high-vibration environments.

- Designed to be used on tray cable, Teck cable, metal-clad cable and armored cable
- Power-tool compatible for fast and efficient installation
- Pre-set torque mechanism takes the guesswork out of installation, delivering optimum torque even when using power tools
- Pre-set torque prevents over-tightening and excess pressure
- Anti-vibration nut ensures permanent installation, even in high-vibration environments
- Superior design load capabilities for heavy-duty applications: 350 lbs. for ½"–2½" trade sizes; 450 lbs. for 3"–4" trade sizes






Position LOC-KING™ Cobra® clamp.



Using a power tool fitted with a ⅝" (16mm) socket, tighten lock nut...



...until it 'blocks' and will no longer turn. Installation is complete.



See Ratings in the Table Below

***Note:*** *When pre-set torque engages, lock-nut separates from bolt head and stops firmly against clamp body.*

| CAT. NO. | FOR EMT AND RIGID CONDUIT TRADE SIZES | CABLE O.D. RANGE (IN.) | ARROW #1 LOAD RATING* | ARROW #2 SLIP RATING** | ARROW #3 PULL RATING** | QUANTITY PER BOX |
|---|---|---|---|---|---|---|
| **LKCPC050** | ½ | .650–.890 | 350 lbs. | 50 lbs. | 50 lbs. | 100 |
| **LKCPC075** | ¾ | .860–1.110 | 350 lbs. | 50 lbs. | 50 lbs. | 100 |
| **LKCPC100** | 1 | 1.100–1.400 | 350 lbs. | 50 lbs. | 50 lbs. | 100 |
| **LKCPC125** | 1¼ | 1.400–1.725 | 350 lbs. | 50 lbs. | 50 lbs. | 50 |
| **LKCPC150** | 1½ | 1.690–1.980 | 350 lbs. | 50 lbs. | 50 lbs. | 50 |
| **LKCPC200** | 2 | 1.980–2.576 | 350 lbs. | 50 lbs. | 50 lbs. | 50 |
| **LKCPC250** | 2½ | 2.576–3.060 | 350 lbs. | 50 lbs. | 50 lbs. | 25 |
| **LKCPC300** | 3 | 3.060–3.626 | 450 lbs. | 50 lbs. | 50 lbs. | 25 |
| **LKCPC350** | 3½ | 3.626–4.126 | 450 lbs. | 50 lbs. | 50 lbs. | 25 |
| **LKCPC400** | 4 | 4.126–4.626 | 450 lbs. | 50 lbs. | 50 lbs. | 25 |

** Safety Factor of 4* *** Safety Factor of 1*



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# The new specification standard for heavy-duty industrial applications.

NEW!

## King Cobra® Cable and Pipe Clamp with Galv-Krom® Finish



- Superior design load capabilities for industrial applications: 350 lbs. for ½" to 2½" trade sizes; 450 lbs. for 3" to 4" trade sizes
- Durable one-piece heavy-duty steel construction — designed specifically for use in industrial applications
- Embossed shoulder and hooks increase loading capability and durability, preventing deformation of clamps
- Rugged stirrup provides increased strength for heavier loads, minimizing deflection
- Wider saddle design with anti-rotation tabs distributes load evenly over a larger surface area, preventing jacket damage
- Increased corrosion protection* — Galv-Krom® (yellow zinc trivalent) finish stands up to harsh industrial applications
- Parallel hook design keeps conduit and cable square with strut
- Heavy-duty 5/16" hex bolt
- One clamp size works on equal trade sizes for both EMT and rigid conduit, simplifying clamp specification

** Compared to conventional electrogalvanization.*

| CAT. NO. | FOR EMT AND RIGID CONDUIT TRADE SIZE (IN.) | CABLE O.D. RANGE (IN.) | STATIC LOAD LIMIT (LB) SAFETY FACTOR = 4 | STD. CTN. |
|---|---|---|---|---|
| *Galv-Krom® Finish* | | | | |
| **KCPC050** | ½ | .650–.890 | 350 | 100 |
| **KCPC075** | ¾ | .860–1.110 | 350 | 100 |
| **KCPC100** | 1 | 1.100–1.400 | 350 | 100 |
| **KCPC125** | 1¼ | 1.400–1.725 | 350 | 50 |
| **KCPC150** | 1½ | 1.690–1.980 | 350 | 50 |
| **KCPC200** | 2 | 1.980–2.576 | 350 | 50 |
| **KCPC250** | 2½ | 2.576–3.060 | 350 | 25 |
| **KCPC300** | 3 | 3.060–3.626 | 450 | 25 |
| **KCPC350** | 3½ | 3.626–4.126 | 450 | 25 |
| **KCPC400** | 4 | 4.126–4.626 | 450 | 25 |

*Standard Finish — Galv-Krom®*

## Cobra® One-Piece Cable and Pipe Clamp

**Takes a bite out of your installation time!**



- One-piece heavy-duty construction ready to install right out of the box, no need to break apart and reassemble, no screws or bolts to drop
- Installs quickly and securely using one hand
- Universal bolt head accepts a range of tools
- Eliminates the guesswork from clamp selection — one catalog number attaches equal trade sizes of EMT and rigid conduit
- Parallel hook design keeps conduits and cable square with strut
- Reconfigure wiring without complete disassembly. Remove cables easily without disturbing neighboring clamps



| CAT. NO. | FOR EMT AND RIGID CONDUIT TRADE SIZE (IN.) | CABLE O.D. RANGE (IN.) | STATIC LOAD LIMIT (LB) SAFETY FACTOR = 4 | STD. CTN. |
|---|---|---|---|---|
| *EG Silver Finish* | | | | |
| **CPC025** | ¼ | .312–.600 | 200 | 100 |
| **CPC050** | ½ | .650–.890 | 200 | 100 |
| **CPC075** | ¾ | .860–1.110 | 200 | 100 |
| **CPC100** | 1 | 1.100–1.400 | 200 | 100 |
| **CPC125** | 1¼ | 1.400–1.725 | 200 | 50 |
| **CPC150** | 1½ | 1.690–1.980 | 200 | 50 |
| **CPC200** | 2 | 1.980–2.576 | 200 | 50 |
| **CPC250** | 2½ | 2.576–3.060 | 350 | 25 |
| **CPC300** | 3 | 3.060–3.626 | 350 | 25 |
| **CPC350** | 3½ | 3.626–4.126 | 350 | 25 |
| **CPC400** | 4 | 4.126–4.626 | 350 | 25 |

*Stainless Steel: add suffix SS6.*

## Angler® Pipe and Conduit Clamp

For EMT, IMC, Rigid and Standard Pipe.





### Universal Series

| CAT. NO. | SIZE (IN.) | STRAP THICKNESS | DESIGN LOAD (LBS.) | INSTALL TORQUE (IN. LBS.) | STD. CTN. |
|---|---|---|---|---|---|
| ***Galv-Krom® Finish*** | | | | | |
| **C 109 1/2** | ½ | 14 ga. | 400 | 40 | 100 |
| **C 109 3/4** | ¾ | 14 ga. | 500 | 40 | 100 |
| **C 109 1** | 1 | 14 ga. | 500 | 40 | 100 |
| **C 109 1 1/4** | 1¼ | 14 ga. | 500 | 40 | 100 |
| **C 109 1 1/2** | 1½ | 12 ga. | 800 | 60 | 50 |
| **C 109 2** | 2 | 12 ga. | 800 | 60 | 50 |
| **C 109 2 1/2** | 2½ | 12 ga. | 800 | 60 | 50 |
| **C 109 3** | 3 | 12 ga. | 800 | 60 | 50 |
| **C 109 3 1/2** | 3½ | 11 ga. | 1,200 | 60 | 25 |
| **C 109 4** | 4 | 11 ga. | 1,200 | 60 | 25 |
| ***SilverGalv® Finish*** | | | | | |
| **C 109 1/2 EG** | ½ | 14 ga. | 400 | 40 | 100 |
| **C 109 3/4 EG** | ¾ | 14 ga. | 500 | 40 | 100 |
| **C 109 1 EG** | 1 | 14 ga. | 500 | 40 | 100 |
| **C 109 1 1/4 EG** | 1¼ | 14 ga. | 500 | 40 | 100 |
| **C 109 1 1/2 EG** | 1½ | 12 ga. | 800 | 60 | 50 |
| **C 109 2 EG** | 2 | 12 ga. | 800 | 60 | 50 |
| **C 109 2 1/2 EG** | 2½ | 12 ga. | 800 | 60 | 50 |
| **C 109 3 EG** | 3 | 12 ga. | 800 | 60 | 50 |
| **C 109 3 1/2 EG** | 3½ | 11 ga. | 1,200 | 60 | 25 |
| **C 109 4 EG** | 4 | 11 ga. | 1,200 | 60 | 25 |

### Rigid Series

| CAT. NO. | SIZE (IN.) | STRAP THICKNESS | DESIGN LOAD (LBS.) | INSTALL TORQUE (IN. LBS.) | STD. CTN. |
|---|---|---|---|---|---|
| ***Galv-Krom® Finish*** | | | | | |
| **C 109R 1/2** | ½ | 14 ga. | 600 | 40 | 100 |
| **C 109R 3/4** | ¾ | 14 ga. | 600 | 40 | 100 |
| **C 109R 1** | 1 | 14 ga. | 600 | 40 | 100 |
| **C 109R 1 1/4** | 1¼ | 14 ga. | 600 | 40 | 100 |
| **C 109R 1 1/2** | 1½ | 12 ga. | 800 | 60 | 50 |
| **C 109R 2** | 2 | 12 ga. | 800 | 60 | 50 |
| **C 109 2 1/2** | 2½ | 12 ga. | 800 | 60 | 50 |
| **C 109 3** | 3 | 12 ga. | 800 | 60 | 50 |
| **C 109 3 1/2** | 3½ | 11 ga. | 1,200 | 60 | 25 |
| **C 109 4** | 4 | 11 ga. | 1,200 | 60 | 25 |
| ***SilverGalv® Finish*** | | | | | |
| **C 109R 1/2 EG** | ½ | 14 ga. | 600 | 40 | 100 |
| **C 109R 3/4 EG** | ¾ | 14 ga. | 600 | 40 | 100 |
| **C 109R 1 EG** | 1 | 14 ga. | 600 | 40 | 100 |
| **C 109R 1 1/4 EG** | 1¼ | 14 ga. | 600 | 40 | 100 |
| **C 109R 1 1/2 EG** | 1½ | 12 ga. | 800 | 60 | 50 |
| **C 109R 2 EG** | 2 | 12 ga. | 800 | 60 | 50 |
| **C 109 2 1/2 EG** | 2½ | 12 ga. | 800 | 60 | 50 |
| **C 109 3 EG** | 3 | 12 ga. | 800 | 60 | 50 |
| **C 109 3 1/2 EG** | 3½ | 11 ga. | 1,200 | 60 | 25 |
| **C 109 4 EG** | 4 | 11 ga. | 1,200 | 60 | 25 |

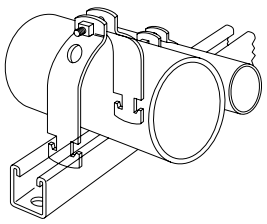
*Hex head size ⅜" for ½" to 1¼" sizes, ½" for 1½" to 4" sizes.*

*Material: Stamped Steel.*

*Pipe sizes 2½" to 4" utilize the same clamps for the Rigid Series and the Universal Series.*

*Available in SilverGalv® Finish by adding "EG" suffix to catalog number.*

## C-200 Universal Pipe Straps



| CAT. NO. | EMT, IMC, RIGID PIPE SIZE (IN.) | PIPE O.D. RANGE (IN.) | STRAP THICKNESS | WT. LBS./C |
|---|---|---|---|---|
| **C-200-1/2** | ½ | .706–.804 | 14 ga. | 12 |
| **C-200-3/4** | ¾ | .922–1.060 | 14 ga. | 13 |
| **C-200-1** | 1 | 1.163–1.315 | 14 ga. | 14 |
| **C-200-1-1/4** | 1¼ | 1.508–1.660 | 14 ga. | 16 |
| **C-200-1-1/2** | 1½ | 1.738–1.900 | 12 ga. | 27 |
| **C-200-2** | 2 | 2.196–2.375 | 12 ga. | 31 |

*Design load equal to C-105 straps.*



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# C-105 and C-106 Pipe Straps

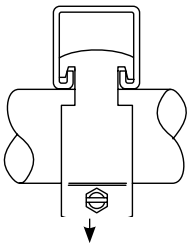
Kindorf® Pipe Straps are designed to be twist inserted anywhere along the slot side of the channel. Pipes can be placed as closely as pipe couplings permit.

**Some unique features of the straps include:**

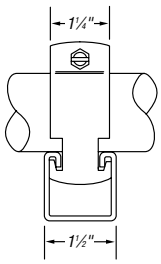
- Bolt head is combination slot and hex head for flexibility of attachment
- Square nut is captivated on the shoulder for easy one-handed tightening
- Straps are interchangeable with 1⅝" strut for broader application
- Straps are shipped assembled so counting and sorting are easier
- Pipe or conduit sizes are shown on the strap for easy identification



*All Kindorf® Straps are pre-assembled for easy handling and sorting.*

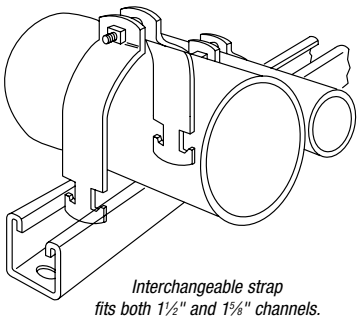


*Design Load*




## Kindorf® Straps for Rigid Conduit, IMC and Pipe

| CAT. NO. | STEEL STRAPS — GALV-KROM® FINISH: RIGID CONDUIT OR PIPE SIZE (IN.) | O.D. SIZE (IN.) | STEEL STRAP THICKNESS | DESIGN LOAD (LBS.) | WT. LBS./C |
|---|---|---|---|---|---|
| C-105-3/8 | ⅜ | .675 | 14 ga. | 750 | 12 |
| C-105-1/2 | ½ | .840 | 14 ga. | 750 | 13 |
| C-105-3/4 | ¾ | 1.050 | 14 ga. | 750 | 15 |
| C-105-1 | 1 | 1.315 | 14 ga. | 750 | 17 |
| C-105-1-1/4 | 1¼ | 1.660 | 14 ga. | 800 | 19 |
| C-105-1-1/2 | 1½ | 1.900 | 12 ga. | 800 | 28 |
| C-105-2 | 2 | 2.375 | 12 ga. | 800 | 31 |
| C-105-2-1/2 | 2½ | 2.875 | 12 ga. | 1000 | 36 |
| C-105-3 | 3 | 3.500 | 12 ga. | 1650 | 42 |
| C-105-3-1/2 | 3½ | 4.000 | 11 ga. | 1650 | 56 |
| C-105-4 | 4 | 4.500 | 11 ga. | 1650 | 64 |
| C-105-4-1/2 | 4½ | 5.000 | 11 ga. | 1650 | 72 |
| C-105-5 | 5 | 5.563 | 11 ga. | 1650 | 76 |
| C-105-6 | 6 | 6.625 | 11 ga. | 1650 | 89 |
| C-105-8 | 8 | 8.625 | 11 ga. | 1650 | 114 |
| C-105-10 | 10 | 10.750 | 10 ga. | 1650 | 160 |
| C-105-12 | 12 | 12.750 | 10 ga. | 1650 | 165 |



*Interchangeable strap fits both 1½" and 1⅝" channels.*

## Kindorf® Straps for EMT

| CAT. NO. | STEEL — GALV-KROM® FINISH: EMT SIZE (IN.) | O.D. SIZE (IN.) | STEEL STRAP THICKNESS | DESIGN LOAD (LBS.) | WT. LBS./C |
|---|---|---|---|---|---|
| C-106-3/8 | ⅜ | .577 | 14 ga. | 750 | 13 |
| C-106-1/2 | ½ | .706 | 14 ga. | 750 | 14 |
| C-106-3/4 | ¾ | .922 | 14 ga. | 750 | 13 |
| C-106-1 | 1 | 1.163 | 14 ga. | 750 | 16 |
| C-106-1-1/4 | 1¼ | 1.510 | 14 ga. | 750 | 19 |
| C-106-1-1/2 | 1½ | 1.740 | 12 ga. | 800 | 20 |
| C-106-2 | 2 | 2.197 | 12 ga. | 800 | 22 |

## Kindorf® Straps for O.D. Tubing



701-3/4

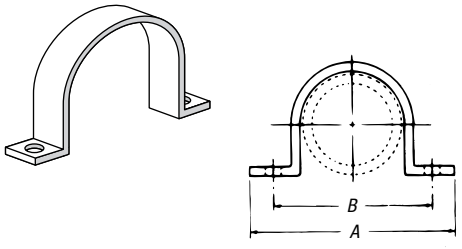
| CAT. NO. | TUBING O.D. (IN.) | STEEL STRAP THICKNESS | DESIGN LOAD (LBS.) |
|---|---|---|---|
| *Galv-Krom® Finish* | | | |
| **701 1/4** | ¼ | 14 ga. | 750 |
| **701-3/8** | ⅜ | 14 ga. | 750 |
| **701-1/2-STR** | ½ | 14 ga. | 750 |
| **701-5/8** | ⅝ | 14 ga. | 750 |
| **701-3/4** | ¾ | 14 ga. | 750 |
| **701-7/8** | ⅞ | 14 ga. | 750 |
| **701-1-STR** | 1 | 14 ga. | 750 |
| **701-1-1/8** | 1⅛ | 14 ga. | 1,000 |
| **701-1-1/4** | 1¼ | 14 ga. | 1,000 |
| **701-1-3/8** | 1⅜ | 14 ga. | 1,000 |
| **701-1-1/2** | 1½ | 14 ga. | 1,000 |
| **701-1-5/8** | 1⅝ | 14 ga. | 1,000 |
| **701-1-3/4** | 1¾ | 12 ga. | 1,000 |
| **701-1-7/8** | 1⅞ | 12 ga. | 1,000 |
| **701-2** | 2 | 12 ga. | 1,000 |
| **701-2-1/8** | 2⅛ | 12 ga. | 1,300 |
| **701-2-1/4** | 2¼ | 12 ga. | 1,300 |
| **701-2-3/8** | 2⅜ | 12 ga. | 1,300 |
| **701-2-1/2** | 2½ | 12 ga. | 1,300 |
| **701-2-5/8** | 2⅝ | 12 ga. | 1,300 |
| **701-2-3/4** | 2¾ | 12 ga. | 1,300 |
| **701-2-7/8** | 2⅞ | 12 ga. | 1,300 |
| **701-3** | 3 | 12 ga. | 1,300 |
| **701-3-1/8** | 3⅛ | 12 ga. | 1,300 |
| **701-3-1/4** | 3¼ | 12 ga. | 1,300 |
| **701-3-3/8** | 3⅜ | 12 ga. | 1,300 |
| **701-3-1/2** | 3½ | 12 ga. | 1,300 |
| **701-3-5/8** | 3⅝ | 11 ga. | 1,650 |
| **701-3-3/4** | 3¾ | 11 ga. | 1,650 |
| **701-3-7/8** | 3⅞ | 11 ga. | 1,650 |

*For SilverGalv® Finish, add suffix EG.*

| CAT. NO. | TUBING O.D. (IN.) | STEEL STRAP THICKNESS | DESIGN LOAD (LBS.) |
|---|---|---|---|
| *Galv-Krom® Finish* | | | |
| **701-4** | 4 | 11 ga. | 1,650 |
| **701-4-1/8** | 4⅛ | 11 ga. | 1,650 |
| **701-4-1/4** | 4¼ | 11 ga. | 1,650 |
| **701-4-3/8** | 4⅜ | 11 ga. | 1,650 |
| **701-4-1/2** | 4½ | 11 ga. | 1,650 |
| **701-4-5/8** | 4⅝ | 11 ga. | 1,650 |
| **701-4-3/4** | 4¾ | 11 ga. | 1,650 |
| **701-4-7/8** | 4⅞ | 11 ga. | 1,650 |
| **701-5** | 5 | 11 ga. | 1,650 |
| **701-5-1/8** | 5⅛ | 11 ga. | 1,650 |
| **701-5-1/4** | 5¼ | 11 ga. | 1,650 |
| **701-5-3/8** | 5⅜ | 11 ga. | 1,650 |
| **701-5-1/2** | 5½ | 11 ga. | 1,650 |
| **701-5-5/8** | 5⅝ | 10 ga. | 1,650 |
| **701-5-3/4** | 5¾ | 10 ga. | 1,650 |
| **701-5-7/8** | 5⅞ | 10 ga. | 1,650 |
| **701-6** | 6 | 10 ga. | 1,650 |
| **701-6-1/8** | 6⅛ | 10 ga. | 1,650 |
| **701-6-1/4** | 6¼ | 10 ga. | 1,650 |
| **701-6-3/8** | 6⅜ | 10 ga. | 1,650 |
| **701-6-1/2** | 6½ | 10 ga. | 1,650 |
| **701-6-5/8** | 6⅝ | 10 ga. | 1,650 |
| **701-6-3/4** | 6¾ | 10 ga. | 1,650 |
| **701-6-7/8** | 6⅞ | 10 ga. | 1,650 |
| **701-8** | 8 | 10 ga. | 1,650 |

*For SilverGalv® Finish, add suffix EG.*

## C-708-U Short Strap for Channel or Wall Mounting




| CAT. NO. | PIPE SIZE (IN.) | DIMENSIONS (IN.) A | DIMENSIONS (IN.) B | HOLE SIZE (IN.) | STOCK SIZE (IN.) | DESIGN LOAD (LBS.) |
|---|---|---|---|---|---|---|
| **C708U 1/2** | ½ | 2⅞ | 2 | 9/32 | ⅛ x 1⅝ | 650 |
| **C-708-U-3/4** | ¾ | 3 1/16 | 2 5/16 | 9/32 | ⅛ x 1⅝ | 650 |
| **C-708-U-1** | 1 | 3⅜ | 2½ | 9/32 | ⅛ x 1⅝ | 650 |
| **C-708-U-1-1/4** | 1¼ | 3 11/16 | 2 5/16 | 9/32 | ⅛ x 1⅝ | 650 |
| **C-708-U-1-1/2** | 1½ | 3 15/16 | 3 1/16 | 9/32 | ⅛ x 1⅝ | 650 |
| **C-708-U-2** | 2 | 5¾ | 4⅛ | 7/16 | ¼ x 1⅝ | 650 |
| **C-708-U-2-1/2** | 2½ | 6 3/16 | 4 9/16 | 7/16 | ¼ x 1⅝ | 1,000 |
| **C-708-U-3** | 3 | 6 3/16 | 5 3/16 | 7/16 | ¼ x 1⅝ | 1,000 |
| **C-708-U-3-1/2** | 3½ | 7 5/16 | 5 11/16 | 7/16 | ¼ x 1⅝ | 1,000 |
| **C-708-U-4** | 4 | 7 13/16 | 6 3/16 | 7/16 | ¼ x 1⅝ | 1,200 |
| **C-708-U-5** | 5 | 8⅞ | 7¼ | 7/16 | ¼ x 1⅝ | 1,200 |
| **C-708-U-6** | 6 | 9 15/16 | 8 5/16 | 7/16 | ¼ x 1⅝ | 1,200 |



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800.816.7809
Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

www.tnb.com

## Ty-Rap® Cable Clamp for Framing Channel

When fastening wire bundles, cables or hoses to framing channels, you can cut costs considerably by using the Ty-Rap® Cable Clamp. It is made of smooth, weather-resistant nylon and designed to protect cable insulation and hoses from wear or damage as can occur with metal clamps. The clamp may be used for both indoor or outdoor applications. It installs in the framing channel with a simple push and twist. It requires no screws, nuts or tools. The clamp fits all 1½" and 1⅝" channels regardless of channel depth.



- Installs with a push and twist
- Designed for indoor or outdoor use
- Smooth design protects cable insulation
- Takes range of cable diameters



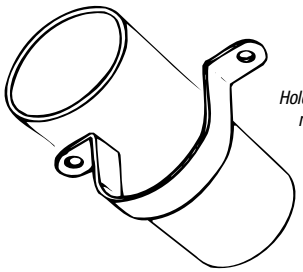




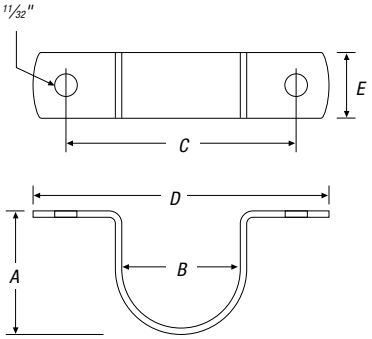
| CAT. NO. | CHANNEL SIZE | MAXIMUM TIE WIDTH ACCOM. | UNIT QTY. | STD. CTN. |
|---|---|---|---|---|
| TC5363X | 1.5 & 1.625 | .301 | 50 | 250 |

*Mounting bases for heavy-duty applications are made from high-impact weather-resistant nylon.*

## C-144 Two-Hole Pipe Straps



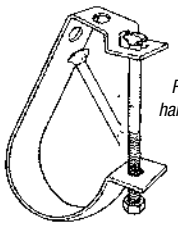
*Holds pipe tight against mounting surface.*



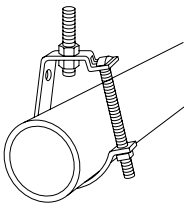

| CAT. NO. | DIMENSIONS (IN.) A & B | C | D | E | WOOD SCREW SIZE REQ'D. | THICKNESS STEEL | WT. LBS./C |
|---|---|---|---|---|---|---|---|
| C-144-1/2 | .840 | 2 | 3 | ¾ | No. 12 x 1 | ⅛ | 10 |
| C-144-3/4 | 1.050 | 2¼ | 3¼ | ¾ | No. 12 x 1 | ⅛ | 11 |
| C-144-1 | 1.315 | 2½ | 3½ | ¾ | No. 12 x 1 | ⅛ | 13 |
| C-144-1-1/4 | 1.660 | 3¼ | 4¼ | 1 | No. 12 x 1 | ⅛ | 20 |
| C-144-1-1/2 | 1.900 | 3½ | 4½ | 1 | No. 12 x 1 | ⅛ | 23 |
| C-144-2 | 2.375 | 4¼ | 5¼ | 1 | No. 16 x 11/2 | ⅛ | 30 |
| C-144-2-1/2 | 2.875 | 5 | 6 | 1 | No. 16 x 11/2 | ⅛ | 35 |
| C-144-3 | 3.500 | 5¾ | 6¾ | 1 | No. 16 x 2 | ⅛ | 42 |
| C-144-3-1/2 | 4.000 | 6½ | 7½ | 1 | No. 16 x 21/2 | 3/16 | 69 |
| C-144-4 | 4.500 | 7 | 8 | 1 | No. 16 x 3 | 3/16 | 78 |

*Standard finish Galv-Krom®.*

## C-711 Lay-in-Pipe Hanger (J-Hanger)



*Rest pipe in body of hanger. Fasten side bolt when convenient.*



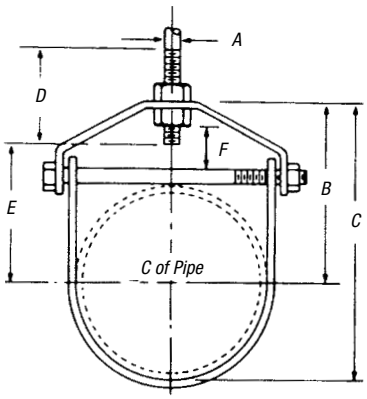
Saves installation time by allowing the conduit or pipe to be laid in place after the hanger is mounted. Fastening of side bolt can be delayed until most convenient for job conditions. Insulation can be installed without removing pipe from hanger. The C-149 hanger can be suspended from hanger rod or can be bolted directly to a wall. When used with hanger rod, assembly requires two H-114 hex nuts.

Vertical adjustment of at least 1½" after pipe is laid in place. The lower nut adjusts pipe lines to the proper pitch and the top nut, when locked into position, prevents loosening due to vibration. The square nut on the side bolt is kept from loosening by the arrangement of hole and up-turned lip.

| CAT. NO. | PIPE SIZE (IN.) | A ROD (IN.) | DIMENSIONS (IN.) B | C | D | E | F | G | BOLT SIZE (IN.) | STOCK SIZE | MAX. REC LOADS LBS. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C-711-1/2 | ½ | ⅜ | 2⅝ | 1¾ | 7/16 | 1½ | 1 15/16 | 3 5/32 | ¼ | 12 ga, x ¾ | 400 |
| C-711-3/4 | ¾ | ⅜ | 2⅞ | 1⅞ | 7/16 | 1 11/16 | 2⅛ | 3½ | ¼ | 12 ga. x ¾ | 400 |
| C-711-1 | 1 | ⅜ | 2 15/16 | 1 15/16 | 7/16 | 1 13/16 | 2 5/16 | 3 11/16 | ¼ | 12 ga. x ¾ | 400 |
| C-711-1-1/4 | 1¼ | ⅜ | 3¼ | 2 | 7/16 | 2 1/16 | 2⅝ | 4⅛ | ¼ | 12 ga. x ¾ | 400 |
| C-711-1-1/2 | 1½ | ⅜ | 3 9/16 | 2 3/16 | 7/16 | 2 7/16 | 2⅞ | 4⅝ | ¼ | 12 ga. x ¾ | 400 |
| C-711-2 | 2 | ⅜ | 3 11/16 | 2⅛ | 7/16 | 2 9/16 | 3 1/16 | 5 | ¼ | 12 ga. x ¾ | 400 |
| C-711-2-1/2 | 2½ | ½ | 7 7/16 | 2 7/16 | 9/16 | 3 3/16 | 3⅝ | 6 | ⅜ | 12 ga. x 1¼ | 500 |
| C-711-3 | 3 | ½ | 4 13/16 | 2 9/16 | 9/16 | 3½ | 4 1/16 | 6 21/32 | ⅜ | 12 ga. x 1¼ | 500 |
| C-711-3-1/2 | 3½ | ½ | 5⅛ | 2⅝ | 9/16 | 3¾ | 4⅜ | 7 5/16 | ⅜ | 3/16 x 1¼ | 500 |
| C-711-4 | 4 | ⅝ | 6⅛ | 3 3/16 | 9/16 | 4⅝ | 5 3/16 | 8 9/16 | ⅜ | 3/16 x 1¼ | 550 |
| C-711-5 | 5 | ⅝ | 6¾ | 3¼ | 9/16 | 5 1/16 | 5⅜ | 9 23/32 | ⅜ | 3/16 x 1¼ | 550 |
| C-711-6 | 6* | ¾ | 7¾ | 3 9/16 | 9/16 | 5 13/16 | 6⅝ | 11¼ | ⅜ | 3/16 x 1¾ | 600 |
| C-711-8 | 8* | ⅞ | 9 3/16 | 3 15/16 | 9/16 | 6 15/16 | 8 | 13 11/16 | ⅜ | 3/16 x 1¾ | 760 |

** Hangers 6" and over have hole instead of slot.*

## C-710 Clevis Hanger




| CAT. NO. | PIPE SIZE (IN.) | SIZE OF STEEL (IN.) UPPER | LOWER | DIMENSIONS (IN.) A | B | C | D | E | F | MAX. REC. LOADS LBS. |
|---|---|---|---|---|---|---|---|---|---|---|
| C710 1/2 | ½ | ⅛ x 1 | ⅛ x 1 | ⅜ | 1 11/16 | 2⅛ | 2½ | ⅞ | 7/16 | 610 |
| C-710-3/4 | ¾ | ⅛ x 1 | ⅛ x 1 | ⅜ | 1⅞ | 2 7/16 | 2½ | 1 | ½ | 610 |
| C-710-1 | 1 | ⅛ x 1 | ⅛ x 1 | ⅜ | 2⅛ | 2 13/16 | 2½ | 1¼ | ⅝ | 610 |
| C-710-1-1/4 | 1¼ | ⅛ x 1 | ⅛ x 1 | ⅜ | 2 9/16 | 3 3/16 | 2½ | 1¾ | ⅞ | 610 |
| C710-1-1/2 | 1½ | ⅛ x 1 | ⅛ x 1 | ⅜ | 3 | 4 | 2½ | 2⅛ | 1 1/16 | 610 |
| C-710-2 | 2 | ⅛ x 1 | ⅛ x 1 | ⅜ | 3 11/16 | 4⅞ | 2½ | 2 15/16 | 1⅝ | 610 |
| C-710-2-1/2 | 2½ | ⅜ x 1¼ | 3/16 x 1¼ | ½ | 4 11/16 | 6⅛ | 3 | 3 13/16 | 2 | 1,130 |
| C-710-3 | 3 | ⅜ x 1¼ | 3/16 x 1¼ | ½ | 4¾ | 6 9/16 | 3 | 3⅞ | 1¾ | 1,130 |
| C-710-3-1/2 | 3½ | ⅜ x 1¼ | 3/16 x 1¼ | ½ | 4 15/16 | 6 15/16 | 3 | 4 1/16 | 1¾ | 1,130 |
| C-710-4 | 4 | ¼ x 1¼ | 3/16 x 1¼ | ⅝ | 5 9/16 | 7 13/16 | 3½ | 4½ | 1 15/16 | 1,130 |
| C-710-5 | 5 | ¼ x 1¼ | 3/16 x 1¼ | ⅝ | 6 3/16 | 9 | 3½ | 5⅛ | 1¾ | 1,430 |
| C-710-6 | 6 | ¼ x 1½ | 3/16 x 1½ | ¾ | 6 3/16 | 10⅛ | 4 | 5⅝ | 1⅞ | 1,430 |
| C-710-7 | 7 | ¼ x 1¾ | 3/16 x 1¾ | ¾ | 8½ | 12⅛ | 4¼ | 6½ | 2¼ | 1,940 |
| C-710-8 | 8 | ¼ x 1¾ | 3/16 x 1¾ | ⅞ | 8 5/16 | 12⅝ | 4¼ | 7 | 2⅛ | 1,940 |
| C-710-10 | 10 | ⅜ x 1¾ | ¼ x 1¾ | ⅞ | 9⅞ | 15¼ | 4½ | 8⅜ | 2¼ | 1,940 |
| C-710-12 | 12 | ⅜ x 2 | ¼ x 2 | ⅞ | 11 13/16 | 17 9/16 | 4¾ | 9¾ | 2⅝ | 3,600 |
| C-710-14 | 14 | ½ x 2½ | ¼ x 2½ | 1 | 12 7/16 | 19 7/16 | 5¼ | 10 13/16 | 2 15/16 | 3,800 |
| C-710-16 | 16 | ½ x 2½ | ¼ x 2½ | 1 | 15 | 23 | 6 | 12 7/16 | 2⅝ | 4,200 |
| C-710-18 | 18 | ½ x 2½ | ¼ x 2½ | 1⅛ | 15¼ | 24¼ | 6½ | 13 15/16 | 3¾ | 4,600 |
| C-710-20 | 20 | ⅝ x 3 | ⅜ x 3 | 1¼ | 16¾ | 26¾ | 7 | 13 15/16 | 4 | 4,800 |
| C-710-24 | 24 | ⅝ x 3 | ⅜ x 3 | 1¼ | 19 | 31 | 7½ | 17½ | 4¼ | 4,800 |
| C-710-30 | 30 | ¾ x 3 | ⅜ x 3 | 1¼ | 24⅛ | 39⅛ | 8¼ | 21⅞ | 5 | 6,000 |

*Order by Cat. No., finish and pipe size.*



Thomas&Betts

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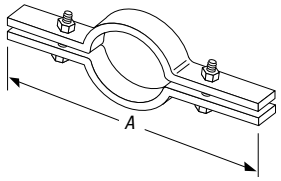
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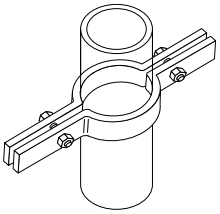
# Conduit, Cable and Pipe Supports



## C-720 Riser Clamps

Firmly grips vertically mounted pipe or conduit and distributes the load over a larger area.

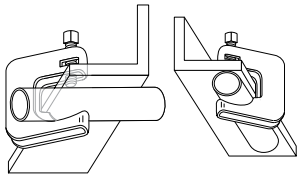


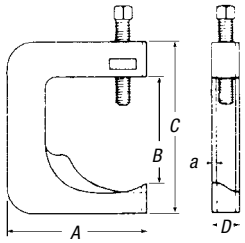



| CAT. NO. | PIPE SIZE (IN.) | A (IN.) | SIZE STOCK (IN.) | SIZE BOLT (IN.) | MAX. REC. LOAD LBS. |
|---|---|---|---|---|---|
| C720 1/2 | ½ | 9⅛ | 3/16 x 1 | ⅜ x 1½ | 220 |
| C-720-3/4 | ¾ | 9¼ | 3/16 x 1 | ⅜ x 1½ | 220 |
| C-720-1 | 1 | 9⅜ | 3/16 x 1 | ⅜ x 1½ | 220 |
| C-720-1-1/4 | 1¼ | 9⅞ | ¼ x 1 | ⅜ x 1½ | 250 |
| C-720-1-1/2 | 1½ | 10 | ¼ x 1 | ⅜ x 1½ | 250 |
| C-720-2 | 2 | 10½ | ¼ x 1 | ⅜ x 1½ | 300 |
| C-720-2-1/2 | 2½ | 11 1/16 | ¼ x 1 | ⅜ x 1½ | 400 |
| C-720-3 | 3 | 11 3/16 | ¼ x 1 | ⅜ x 1½ | 500 |
| C-720-3-1/2 | 3½ | 13 | ¼ x 1 | ½ x 1½ | 600 |
| C-720-4 | 4 | 13½ | ¼ x 1 | ½ x 1½ | 750 |
| C-720-5 | 5 | 14 | ¼ x 1½ | ½ x 1¾ | 1,500 |
| C-720-6 | 6 | 15 3/16 | ¼ x 1½ | ½ x 1¾ | 1,600 |
| C-720-8 | 8 | 19 | ⅜ x 1½ | ⅝ x 2½ | 2,500 |

## C-247, C-248 & C-249 Steel Conduit Clamps

A versatile clamp for attaching conduit to any type of beam, channel, angle or column. Designed to hold the conduit snug against the support with conduit either parallel or at right angle to it. The case-hardened set screw bites into the structural member for maximum security. ⅛" steel.



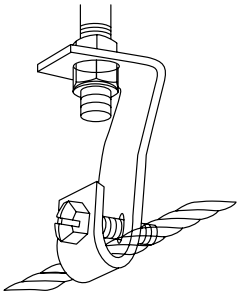


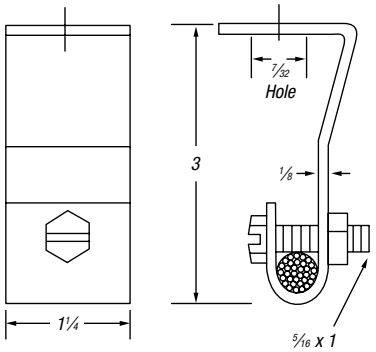

| CONDUIT SIZE | MAXIMUM BEAM FLANGE THICKNESS (IN.) | | |
|---|---|---|---|
| | C-247 | C-248 | C-249 |
| ½ | ⅝ | 1 | — |
| ¾ | 7/16 | ¾ | 1½ |
| 1 | — | ½ | 1¼ |
| 1¼ | — | 1 | — |
| 1½ | — | — | ⅝ |
| Dim A | 2¼ | 2 9/16 | 3¼ |
| Dim B | 1⅜ | 1¾ | 2½ |
| Dim C | 2¾ | 3 | 4 |
| Dim D | 9/16 | 9/16 | ⅝ |
| Per Carton | 100 | 50 | 50 |
| Wt. in lbs./C | 33 | 36 | 59 |

*Galv-Krom® Finish.*

## C-708 Messenger Cable Support

Designed for use as intermediate supports for ⅜" messenger cable. Grips cable when 5/16" screw is tightened. Provides easy vertical adjustment. Design load 1,000 lbs. Safety factor of 3.



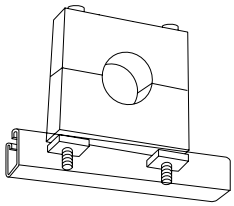


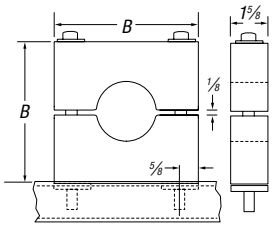

| CAT. NO. | DESCRIPTION |
|---|---|
| C-708 | ⅛" Steel, 27 lbs./C |

*Galv-Krom® finish.*

## C-750 Maple Cable Clamp

Maple blocks, impregnated with paraffin. ⅜" bolts with special nuts facilitate installation on B-900 channel.






| CAT. NO. & SIZE | O.D. OF CABLE (IN.) | DIMENSIONS (IN.) A | WT. IN. B | LBS./C |
|---|---|---|---|---|
| C-750-1 | 0–.99 | 4 | 3⅞ | 90 |
| C750 2 | 1.0–1.49 | 4½ | 4⅜ | 100 |
| C-750-3 | 1.5–1.99 | 5 | 4⅞ | 120 |
| C-750-4 | 2–2.49 | 5½ | 5⅜ | 140 |
| C-750-5 | 2.5–2.99 | 6 | 5⅞ | 160 |
| C750 6 | 3–3.49 | 7 | 6⅞ | 200 |
| C-750-7 | 3.5–3.99 | 8 | 7⅞ | 240 |
| C-750-8 | 4–4.49 | — | — | — |
| C-750-9 | 4.5–5.00 | — | — | — |

*Size refers to overall dimensions of Maple Cable Clamp only.*
*Hole will be bored to fit O.D. of cable.*
*Orders MUST specify exact O.D. of cable.*
*Special order.*

## Conduit, Cable and Pipe Supports

# Lightweight, non-breakable and inexpensive!

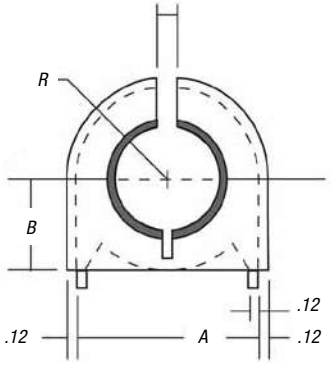
# Kindorf® TPE Cable Insulator Clamps

Offer a less expensive, lighter weight and non-breakable alternative to porcelain for cable support, and they won't rot like maple clamps. The one-piece thermoplastic elastomer (TPE) insulator is flame-retardant, UV-resistant and chemical-resistant. A tapered flange isolates and protects cable. Available sizes accommodate cables from ⅜" to 4½" O.D. and fit all Kindorf® channels as well as all 1⅝" channel systems.

| CAT. NO. | HOLE DIA. (IN.) | CLAMP SIZE (IN.) | DIM. A (IN.) | DIM. B&R (IN.) | TOTAL HEIGHT (IN.) |
|---|---|---|---|---|---|
| C755 1ATP | ⅜ | 1⅛ | 1.12 | .56 | 1.82 |
| C-755-1B-TP | ½ | 1⅛ | 1.12 | .56 | 1.82 |
| C-755-1C-TP | ⅝ | 1⅛ | 1.12 | .56 | 1.82 |
| C-755-2 TP | ¾ | 1⅝ | 1.62 | .81 | 2.34 |
| C-755-2A-TP | ⅞ | 1⅝ | 1.62 | .81 | 2.34 |
| C-755-2B-TP | 1 | 1⅝ | 1.62 | .81 | 2.34 |
| C-755-2C-TP | 1⅛ | 1⅝ | 1.62 | .81 | 2.34 |
| C-755-3 TP | 1¼ | 2⅛ | 2.12 | 1.06 | 2.86 |
| C-755-3A-TP | 1⅜ | 2⅛ | 2.12 | 1.06 | 2.86 |
| C-755-3B-TP | 1½ | 2⅛ | 2.12 | 1.06 | 2.86 |
| C-755-3C-TP | 1⅝ | 2⅛ | 2.12 | 1.06 | 2.86 |
| C-755-4 TP | 1¾ | 2⅝ | 2.62 | 1.31 | 3.5 |
| C-755-4A-TP | 1⅞ | 2⅝ | 2.62 | 1.31 | 3.5 |
| C-755-4B-TP | 2 | 2⅝ | 2.62 | 1.31 | 3.5 |
| C-755-4C-TP | 2⅛ | 2⅝ | 2.62 | 1.31 | 3.5 |
| C-755-5 TP | 2¼ | 3⅛ | 3.12 | 1.56 | 4.05 |
| C-755-5A-TP | 2⅜ | 3⅛ | 3.12 | 1.56 | 4.05 |
| C-755-5B-TP | 2½ | 3⅛ | 3.12 | 1.56 | 4.05 |
| C-755-5C-TP | 2⅝ | 3⅛ | 3.12 | 1.56 | 4.05 |
| C-755-6 TP | 2¾ | 3⅝ | 3.62 | 1.81 | 4.75 |
| C-755-6A-TP | 2⅞ | 3⅝ | 3.62 | 1.81 | 4.75 |
| C-755-6B-TP | 3 | 3⅝ | 3.62 | 1.81 | 4.75 |
| C-755-6C-TP | 3⅛ | 3⅝ | 3.62 | 1.81 | 4.75 |
| C-755-7 TP | 3¼ | 4⅛ | 4.12 | 2.06 | 5.125 |
| C-755-7A-TP | 3⅜ | 4⅛ | 4.12 | 2.06 | 5.125 |
| C-755-7B-TP | 3½ | 4⅛ | 4.12 | 2.06 | 5.125 |
| C-755-7C-TP | 3⅝ | 4⅛ | 4.12 | 2.06 | 5.125 |
| C-755-8 TP | 3¾ | 4⅝ | 4.62 | 2.31 | 5.54 |
| C-755-8A-TP | 3⅞ | 4⅝ | 4.62 | 2.31 | 5.54 |
| C-755-8B-TP | 4 | 4⅝ | 4.62 | 2.31 | 5.54 |
| C-755-8C-TP | 4⅛ | 4⅝ | 4.62 | 2.31 | 5.54 |
| C-755-8D-TP | 4¼ | 5 | 5 | 2.5 | 5.92 |
| C-755-8E-TP | 4⅜ | 5 | 5 | 2.5 | 5.92 |
| C-755-8F-TP | 4½ | 5 | 5 | 2.5 | 5.92 |

- Tapered flange isolates and protects cable
- Flame retardant
- UV resistant
- Exceptional chemical resistance
- Ideal for commercial and industrial applications
- Thermoplastic elastomer (TPE) insulator
- Electro-galvanized finish steel clamp with Everdur nut and bolt
- Dielectric strength of 640V per mil
- Sizes to hold cables ⅜" to 4½" O.D.
- Fits all channel sizes
- UL® Listed








Thomas&Betts

**United States**
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

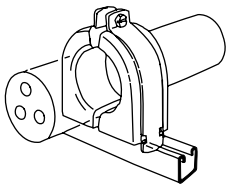
**Technical Services**
Tel: 888.862.3289

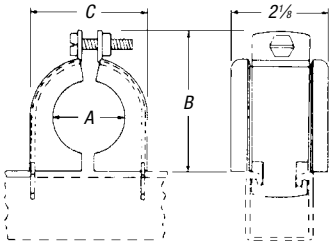
www.tnb.com

## C-755 Porcelain Insulator Clamp

Dry-process white-glaze porcelain insulators assembled in pairs to accept cables from ⅜" through 4½" O.D. C-105 clamp with bronze slotted hex head screw and nut furnished. Fits all Kindorf® channels.





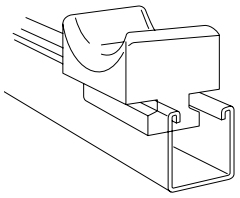


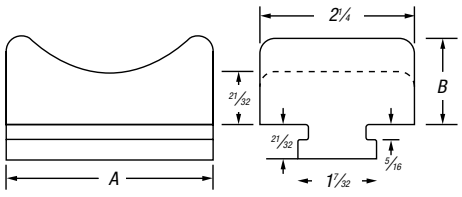

| CAT. NO. | DIMENSIONS (IN.) A | B | C | STRAP C-105 (IN.) | WT. IN LBS./C |
|---|---|---|---|---|---|
| C-755-1A | ⅜ | 2 1/16 | 1 9/16 | 1 | 50 |
| C-755-1B | ½ | 2 1/16 | 1 9/16 | 1 | 50 |
| C-755-1C | ⅝ | 2 1/16 | 1 9/16 | 1 | 50 |
| C-755-2 | ¾ | 2 21/32 | 2 5/32 | 1½ | 91 |
| C-755-2A | ⅞ | 2 21/32 | 2 5/32 | 1½ | 90 |
| C-755-2B | 1 | 2 21/32 | 2 5/32 | ½ | 85 |
| C-755-2C | 1⅛ | 2 21/32 | 2 5/32 | 1½ | 82 |
| C-755-3 | 1¼ | 3⅛ | 2⅝ | 2 | 114 |
| C-755-3A | 1⅜ | 3⅛ | 2⅜ | 2 | 110 |
| C-755-3B | 1½ | 3⅛ | 2⅝ | 2 | 105 |
| C-755-3C | 1⅝ | 3⅛ | 2⅝ | 2 | 102 |
| C-755-4 | 1¾ | 4¼ | 3¾ | 3 | 220 |
| C-755-4A | 1⅞ | 4¼ | 3¾ | 3 | 214 |
| C-755-4B | 2 | 4¼ | 3¾ | 3 | 205 |
| C-755-4C | 2⅛ | 4¼ | 3¾ | 3 | 200 |
| C-755-5 | 2¼ | 4¾ | 4¼ | 3½ | 260 |
| C-755-5A | 2⅜ | 4¾ | 4¼ | 3½ | 250 |
| C-755-5B | 2½ | 4¾ | 4¼ | 3½ | 243 |
| C-755-5C | 2⅝ | 4¾ | 4¼ | 3½ | 240 |
| C-755-6 | 2¾ | 5¼ | 4¾ | 4 | 250 |
| C-755-6A | 2⅞ | 5¼ | 4¾ | 4 | 240 |
| C-755-6B | 3 | 5¼ | 4¾ | 4 | 230 |
| C-755-6C | 3⅛ | 5¼ | 4¾ | 4 | 220 |
| C-755-7 | 3¼ | 6 5/16 | 5 13/16 | 5 | 340 |
| C-755-7A | 3⅜ | 6 5/16 | 5 13/16 | 5 | 330 |
| C-755-7B | 3½ | 6 5/16 | 5 13/16 | 5 | 318 |
| C-755-7C | 3⅝ | 6 5/16 | 5 13/16 | 5 | 387 |
| C-755-8 | 3¾ | 7⅜ | 6⅞ | 6 | 565 |
| C-755-8A | 3⅞ | 7⅜ | 6⅞ | 6 | 550 |
| C-755-8B | 4 | 7⅜ | 6⅞ | 6 | 535 |
| C-755-8C | 4⅛ | 7⅜ | 6⅞ | 6 | 520 |
| C-755-8D | 4¼ | 7⅜ | 6⅞ | 6 | 490 |
| C-755-8E | 4⅜ | 7⅜ | 6⅞ | 6 | 475 |
| C-755-8F | 4½ | 7⅜ | 6⅞ | 6 | 460 |

** Also available in thermoplastic, order as C775-TP.*

## C-756-1 Porcelain Saddle, C-756-2 Porcelain Saddle

- White-glaze dry-process porcelain cable rack insulator
- Fits all sizes of B-900 series channel including B-906






| CAT. NO. | DIMENSIONS (IN.) A | B |
|---|---|---|
| C-756-1 | 3 | 13/16 |
| C-756-2 | 4 | 17/32 |

*C-756-1 is for cables up to 3" O.D. Weight 72 lbs/C.*

*C-756-2 for cables up to 5" O.D. Weight 102 lbs/C.*

# Concrete Inserts

Buildings designed with concrete inserts as an integral part of the ceiling or wall construction realize many economies, both in initial construction and when updating of the mechanical and electrical system is required. The initial economies of construction stem from the ease with which pipe, air conditioning, lighting and other fixtures can be attached to ceilings or walls.

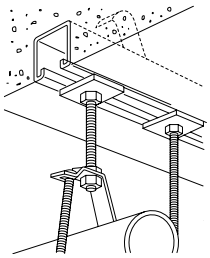
Inserted by casting into the structure, Kindorf® continuous-slot channels will accept all the assembly parts and fittings of the Kindorf® system. This provides virtually limitless structural arrangements — present and future.

Hanger attachments are made by the standard Kindorf® procedure of simply inserting a standard channel nut which can be pre-started on the hanger rod or bolt. Placement or adjustment of attachments can be made in infinite increments at any time along the length of the concrete insert. Future flexibility means economies in terms of future changes in equipment or its placement.

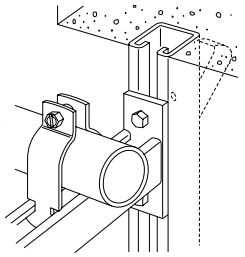
**Initial Installation of Continuous-Slot Channel Inserts Offers:**

- An immediate savings in time and labor by eliminating the need for precise calculation and measurement, both in layout planning and actual installation of attachment devices
- Additional savings in time and labor because changes or additions can be made readily to the existing channel at any time; the need for costly drilling in concrete and other costly procedures can be eliminated

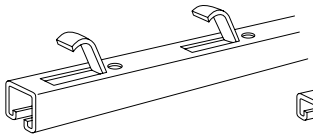
Companion to the channel inserts is the spot-type insert for use where a single hanger is required at a specific location.



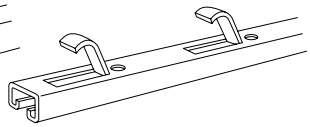
*Pipe section hangs from D-990 concrete insert.*



*D-990 concrete insert supports conduit installation.*



*D-990*



*D-996*

| CAT. NO. | TYPE ANCHOR | CROSS-SECTION | LOAD RATING LBS. PER FT.* |
|---|---|---|---|
| **D-990** | Punched | 1½ x 1½ x 12 ga. | 2,000 |
| **D-996** | Punched | 1½ x ¾ x 14 ga. | 1,500 |

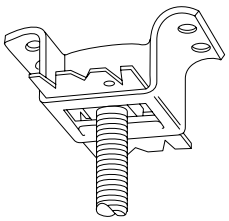
** Safety factor of 3. Based on uniformly distributed load.*

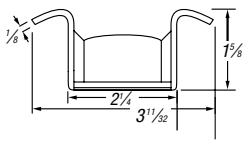
** Standard lengths 10 and 20 feet.*

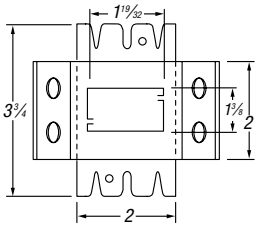
** Special lengths available on request.*

## D-255 Concrete Inserts

An insert with a knockout saves covering the slot or covering the opening. Load rating at 1,300 lbs. with a safety factor of 3. Accommodates hanger rod sizes from ¼" through ⅞" by means of a B-914 insert nut. ⅛" steel. 52 lbs./C.





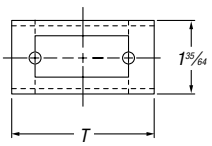



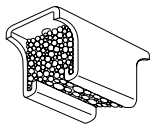

| CAT. NO. | DESCRIPTION |
|---|---|
| **D-255** | For ¼" through ⅞" Hanger Rod — ¼"–½" Pipe |

*Standard finish: Galv-Krom®.*

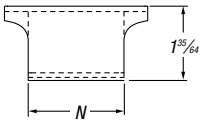
## D-256-2 and D-256-5 Concrete Insert

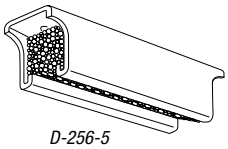
This unique product reduces the "spot" concrete insert to its simplest possible components with all the adjustability of the most expensive. Its features include: two sizes — 2" and 5" adjustability, takes standard insert nuts, uses hanger rod sizes ¼" through ⅝" and has a load rating up to 1,000 lbs. and a safety factor of 3 (hanger rod permitting).



*D-256-2*



*D-256-5*

| CAT. NO. | N (IN.) | T (IN.) | WT. IN LBS./C |
|---|---|---|---|
| **D-256-2** | 2 | 3 | 34 |
| **D-256-5** | 5 | 6 | 76 |

*Standard finish: Galv-Krom®.*



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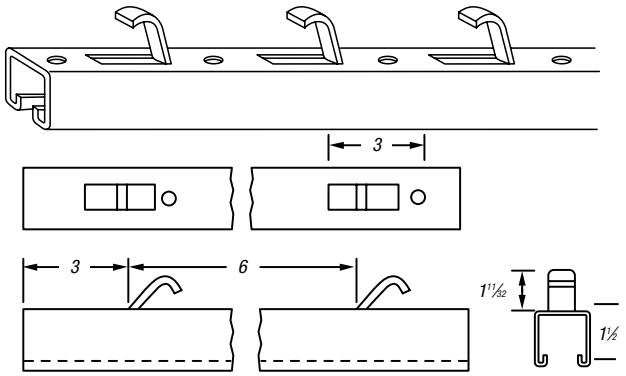
**Technical Services**
Tel: 888.862.3289

www.tnb.com

# Concrete Inserts

## D-990 Continuous-Slot Concrete Insert

Insert is made of B-900 channel (12-ga.) with anchors punched out of insert on 6" centers. Polystyrene filled.



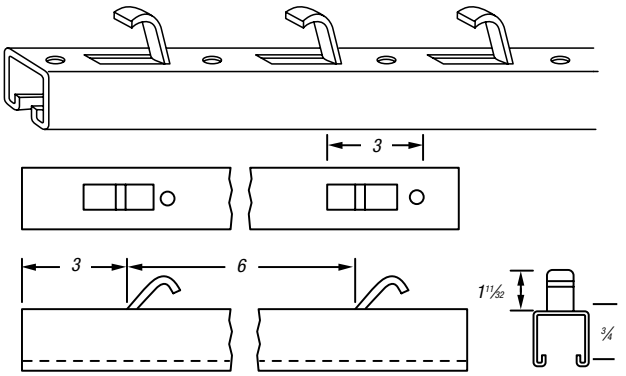

| CAT. NO. | DESCRIPTION |
|---|---|
| D-990 | Continuous Slot and Concrete Insert |

*Use B-910 or B-914 steel nuts for assembly. Load rating 2,000 lbs. per foot with a safety factor of 3. Available in 10- and 20-foot lengths.*

*Galv-Krom® finish.*

## D-996 Continuous-Slot Concrete Insert

Insert is made of B-900 channel (14-ga.) with anchors punched out of insert on 6" centers. Polystyrene filled.



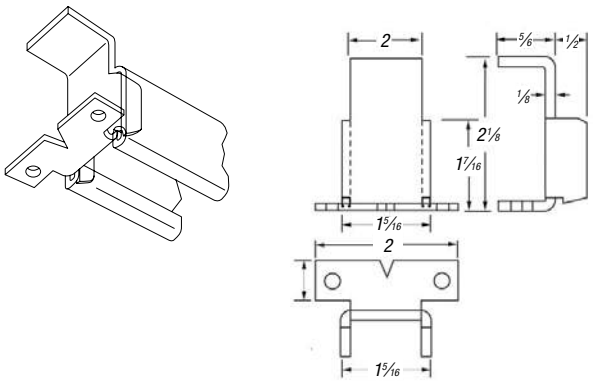

| CAT. NO. | DESCRIPTION |
|---|---|
| D-996 | Continuous Slot and Concrete Insert |

*Use B-910 or B-914 steel nuts for assembly. Load rating 1,500 lbs. per foot with a safety factor of 3. Available in 10- and 20-foot lengths.*

*Galv-Krom® finish.*

## D-982 Anchor End Cap

For capping the ends of D-990 continuous-slot concrete inserts. May be used on the job to make up inserts of less than 1-foot lengths of B-900 channel.



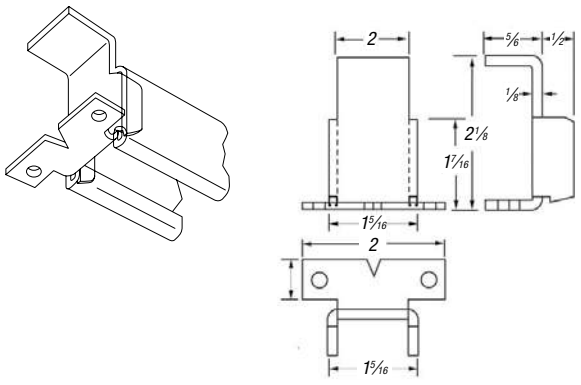

| CAT. NO. | DESCRIPTION |
|---|---|
| D-982 | Anchor End Cap |

*Load rating of such an insert less than 1-foot long is 1,000 lbs. with a safety factor of 3. ⅛" steel. 19 lbs./C.*

*Galv-Krom® finish.*

## D-988 Anchor End Cap

For capping the ends of D-996 continuous-slot concrete inserts. May be used on the job to make up inserts of less than 1-foot lengths of B-906 channel.




| CAT. NO. | DESCRIPTION |
|---|---|
| D-988 | Anchor End Cap |

*Load rating of each insert less than 1-foot long is 600 lbs. with a safety factor of 3. ⅛" steel. 13 lbs./C.*

*Galv-Krom® finish.*



NEW!

## Kindorf® Fast Set Beam Clamps

It can't get much easier than the new Kindorf® Fast Set Beam Clamp. Simply slide the clamp onto the I-beam flange, and it will remain firmly fixed while you install the threaded rod. When tightened, the threaded rod locks the tongue of the clamp against the I-beam for a fast installation and a superior hold.

OLD WAY!

**Standard Beam Clamp**

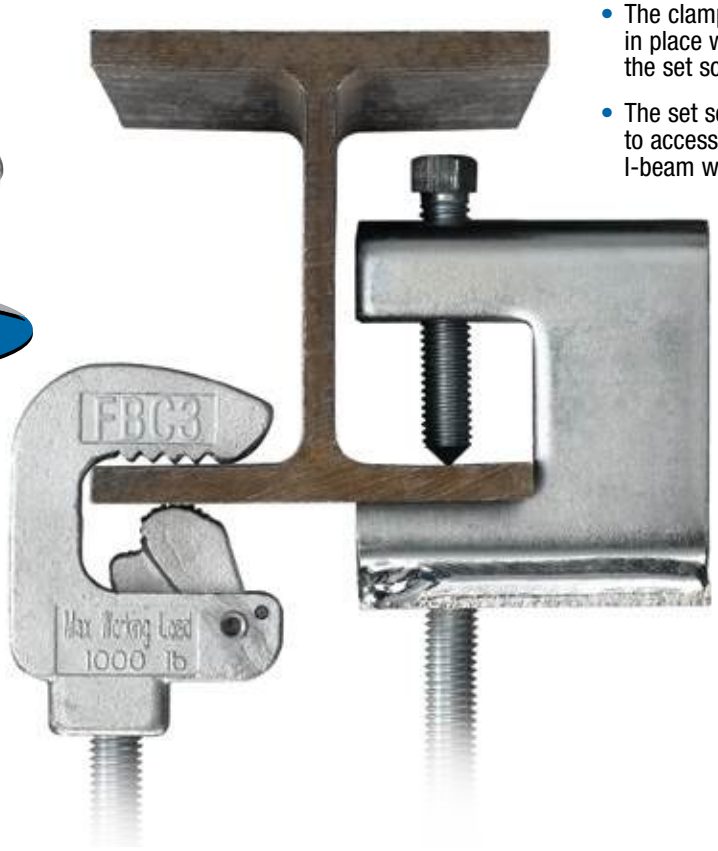
- The clamp must be held in place while tightening the set screw
- The set screw is difficult to access within the I-beam web



NEW WAY!

**Kindorf® Fast Set Beam Clamp**

- Tool-less attachment to the I-beam
- Threaded rod secures the clamp, eliminating an entire step in the process




| CAT. NO. | DESCRIPTION | LOAD RATING | ROD SIZE | STD. PKG. QTY. |
|---|---|---|---|---|
| FBC-1 | Fast Set Beam Clamp | 250 lbs. | ¼"–20 | 25 |
| FBC-2 | Fast Set Beam Clamp | 600 lbs. | ⅜"–16 | 25 |
| FBC-3 | Fast Set Beam Clamp | 1,000 lbs. | ½"–13 | 10 |



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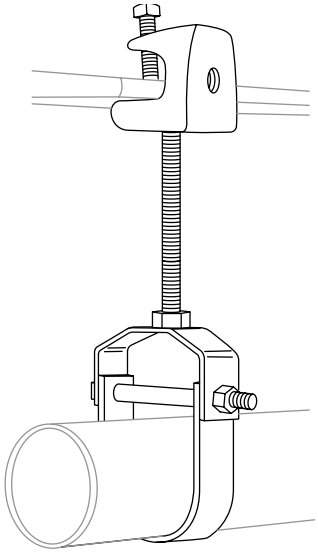
## Beam Clamps and Hanger Rod Supports

# From the Simple Job to the Complex Job with Special Needs, the Kindorf® Line of Beam Clamps Can Fit the Bill.

Kindorf® devices for hanging the load can deliver lower installation costs. Hanger rod and conduit pipe supports are attached to ceilings or to other structural members such as beams, columns or purlins, without drilling, welding or fastening by means of power-actuated tools. A full selection of beam clamps and hanger rod supports are offered to meet a wide variety of needs.

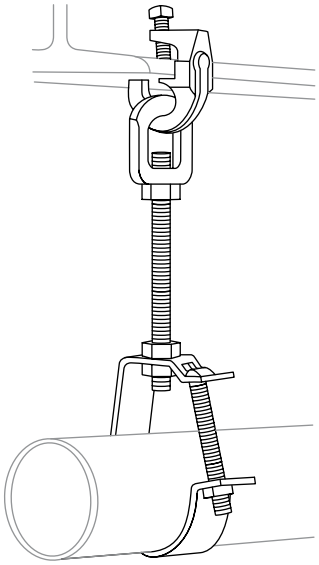
The flexibility of the Kindorf® Series of clamps affords a range of applications, from simple attachment of channel to the suspending of supports from sloping, as well as horizontal, beams.

Where high vibrations are expected, additional support can be attained by gripping the beam on both sides.



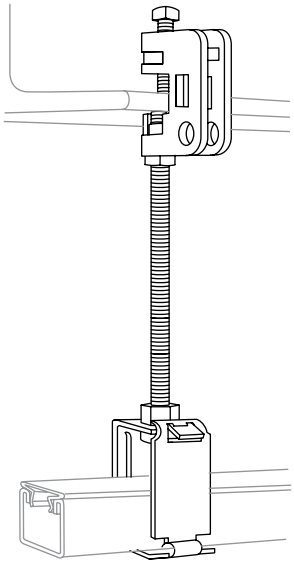
### 500 Series Beam Clamp

**Supports pipe with C-710 clevis hanger.**



### H-550 Swivel Beam Clamp

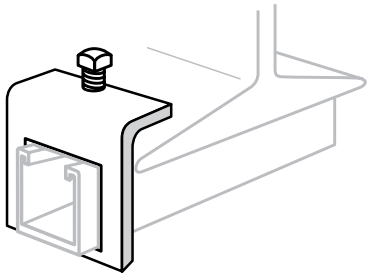
**Supports pipe with C-711 hanger.**

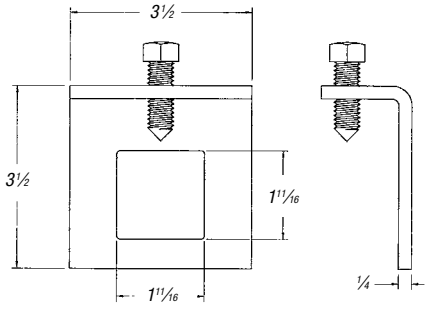


### E-231 Beam Clamp

**Supports channel raceway with G-1012 lay-in-hanger.**

## E-761 Channel to Beam Clamp






| CAT. NO. | DESIGN LOAD LBS./EA. | CHANNEL SERIES | WT. LBS./C |
|---|---|---|---|
| E-761 | 800 | B-900, B-905, B-995 | 108 |

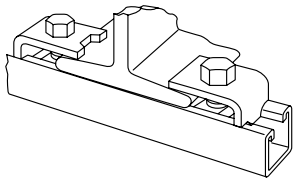
*½" x 1½" set screw included.*

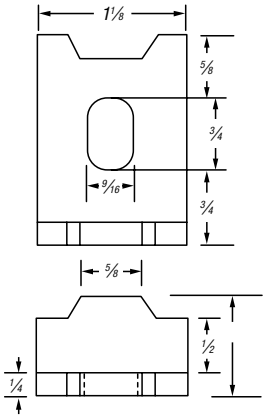
*Galv-Krom® finish.*

# Beam Clamps and Hanger Rod Supports

## E-763 Channel to Beam Clamp

- Secures all sizes of Kindorf® channel to beams where flange edge does not exceed .8" thickness






| CAT. NO. | DESIGN LOAD LBS./EA. | WT. LBS./C |
|---|---|---|
| E-763 | 500 | 25 |

*Load rating each clamp 800 lbs. with a safety factor of 3.*

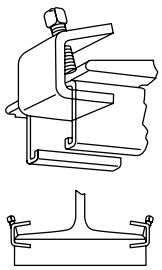
*Assembly requires one H-113-E bolt and one B-910-1/2 steel nut per clamp — order separately.*

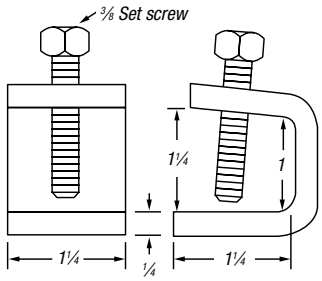
*¼" steel.*

*Galv-Krom® finish.*

## E-767 Channel Support

- Supports any size Kindorf® channel. Clamps to I-beam where flange edge does not exceed .8" thickness






| CAT. NO. | DESIGN LOAD LBS./EA. | WT. LBS./C |
|---|---|---|
| E-767 | 800 | 44 |

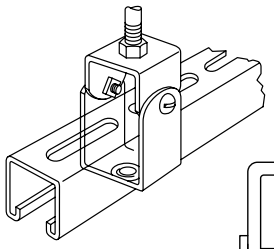
*Load rating each clamp 800 lbs. with a safety factor of 3.*

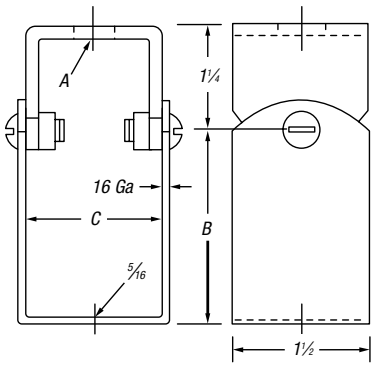
*¼" steel.*

*Galv-Krom® finish.*

## G-962 and G-962-D Channel Hangers

- G-962 fits around 1½" or 1⅞" deep channel
- G-962-D series hangers for 3" deep channel






| CAT. NO. | WT. LBS./C | HANGER SIZE (IN.) | DIM. A (IN.) |
|---|---|---|---|
| G-962-D-1 | 47 | ¼ and ⅜ rod | 13⁄32 |
| G-962-D-2 | 47 | ½ rod and ¼ pipe | 9⁄16 |
| G-962-D-3 | 47 | ⅜ pipe and ⅝ rod | 11⁄16 |
| G-962-D-4** | 47 | ½ pipe | ⅞ |

*** Load rating of 700 lbs. with a safety factor of 3.*

*"B" dimension for G-962: 2½"; for G-962-D: 4". UL® Listed for raceway. "C" dimension for G-962, 1 3⁄64", for G-962-D, 3 7⁄64".*

*Galv-Krom® finish.*



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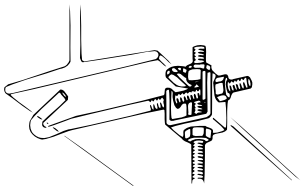
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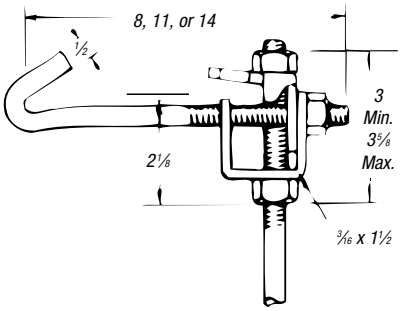
# Beam Clamps and Hanger Rod Supports



## E-160 Adjustable Beam Clamp (½" Rod)

- Clamps to I-beams where edge of beam flange does not exceed .8" thickness
- Hook rod is furnished in three lengths to fit beam flanges up to 6, 9 or 12" widths






| CAT. NO. FOR ½" HANGER RODS | FOR BEAM FLANGE WIDTH (IN.) | WT. LBS./C |
|---|---|---|
| E-160-1/2-6 | 2½ to 6 | 115 |
| E-160-1/2-9 | 5½ to 9 | 125 |
| E-160-1/2-12 | 8½ to 12 | 154 |

*Load rating 800 lbs. with a safety factor of 3.*

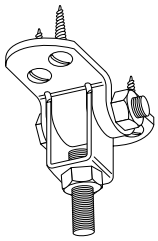
*Assembly requires hanger rod of the proper length and size plus two H-114-D nuts.*

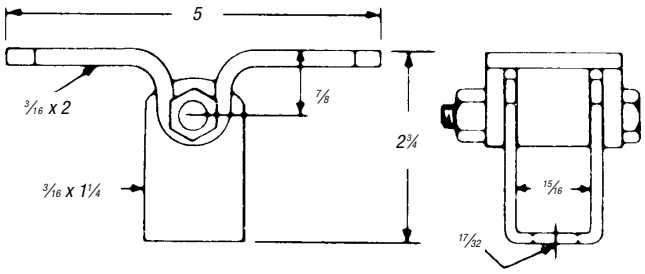
*3/16" steel, ½" hook rod.*

*Galv-Krom® finish.*

## U577 Adjustable Swinging Hanger Flange (⅜" or ½" Rod)

- Flange has 13/32" holes for connection to ceiling






| CAT. NO. | WT. LBS./C |
|---|---|
| U577 | 100 |

*Assembly requires ⅜" or ½" hanger rod of proper length plus two H-114-C or H-114-D nuts.*

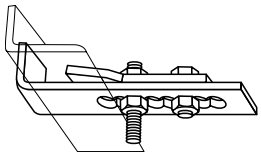
*3/16" steel.*

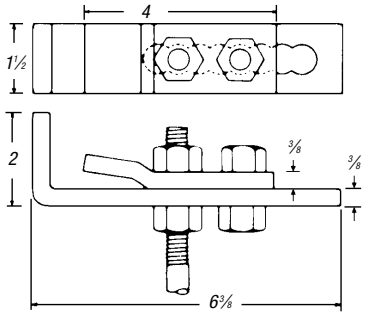
*Flange has 13/32" diameter holes for connection to ceiling.*

*Galv-Krom® finish.*

## E-177 Adjustable Channel Clamp (½" Rod)

- Adjustable to fit all structural channels up to a maximum flange width of 3¼", and all structural angles with leg up to 3" long and not more than ⅜" thick






| CAT. NO. | WT. LBS./C |
|---|---|
| E-177 | 183 |

*Load rating is 800 lbs. with a safety factor of 3.*

*Assembly requires ½" hanger rod of the proper length plus two H-114-D nuts.*

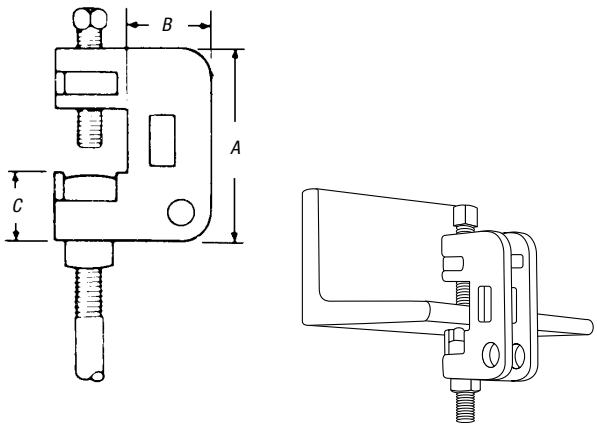
*⅜" steel.*

*Galv-Krom® finish.*

# Beam Clamps and Hanger Rod Supports

## E-231 Structural Steel Clamp (⅜" or ½" Rod)

- Clamps to I-beams, channels, angles and columns
- Two sizes are available, one for ⅜" and the other for ½" hanger rod
- Each takes flanges up to .8"




| CAT. NO. | DIMENSIONS (IN.) A | B | C | WT. LBS./C | DESIGN LOADS LBS. |
|---|---|---|---|---|---|
| E-231-3/8* | 2½ | 1 | ⅞ | 31 | 25 |
| E-231-1/2** | 3 | 1 3/32 | 15/16 | 53 | 15 |

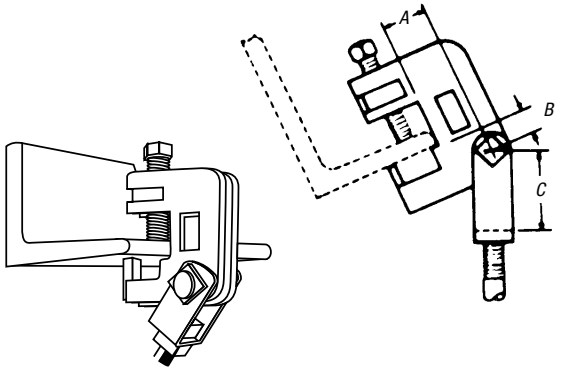
*Assembly requires two H-116-C (⅜") or two H-116-D (½") square nuts to attach hanger rod. ⅛" steel.*

** Load rating of 500 lbs. with a safety factor of 3.*

*** Load rating of 800 lbs. with a safety factor of 3.*

*Galv-Krom® finish.*

## E-232 Clamp with Swing Connector (⅜" or ½" Rod)




*E-232 clamp with swing connector affords a convenient method of attaching to angled beams.*

| CAT. NO. | DIAMETER FOR ROD (IN.) | DIMENSIONS (IN.) A | B | C | WT. LBS./C | DESIGN LOADS LBS. |
|---|---|---|---|---|---|---|
| E-232-3/8* | ⅜ | 9/16 | 7/16 | 1 | 48 | 25 |
| E-232-1/2** | ½ | ⅞ | 29/64 | 1⅝ | 76 | 15 |

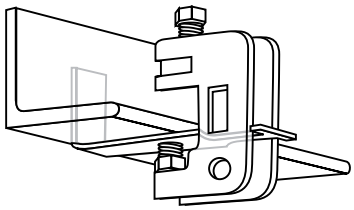
** Load rating of 400 lbs. with a safety factor of 3.*

*** Load rating of 550 lbs. with a safety factor of 3.*

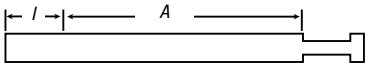
*Galv-Krom® finish.*

## E-233 Anchor Clip

- Anchor clips should be used when clamps are subject to excessive vibration
- To obtain the correct size clips, add 1" to the flange width
- If length required is not standard, order next largest standard length



*For use with E-231 and E-232 clamps when hanger rod is not in straight through position.*




| CAT. NO. | ROD SIZE (IN.) | MAX BEAM WIDTH "A" | FOR USE WITH | WT. LBS./C |
|---|---|---|---|---|
| E-233-3/8-6 | ⅜ | 6 | E-231-3/8 or | 20 |
| E-233-3/8-10 | ⅜ | 10 | E-232-3/8 | 33 |
| E-233-1/2-6 | ½ | 6 | E-231-1/2 or | 26 |
| E-233-1/2-10 | ½ | 10 | E-232-1/2 | 37 |

*Galv-Krom® finish.*



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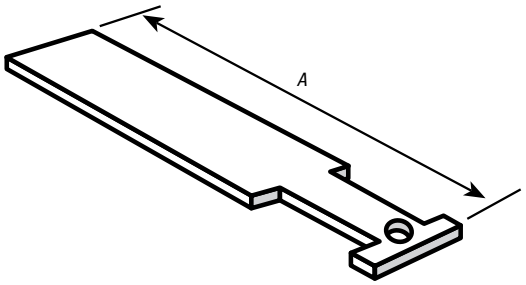
# Beam Clamps and Hanger Rod Supports



## U-568 Beam Clamps

| CAT. NO. | BEAM FLANGE WIDTH (IN.) | DIMENSION A (IN.) | STD. CTN. |
|---|---|---|---|
| U-568-6 | 6 | 9 | 25 |
| U-568-8 | 12 | 15 | 25 |

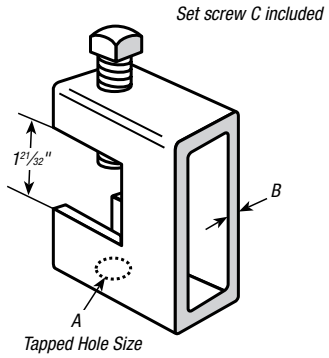
*16 ga. material.*




## E-235 Heavy-Duty Beam Clamp

| CAT. NO. | DIMENSIONS (IN.) A | B | C | WT. LBS./C | DESIGN LOADS LBS. |
|---|---|---|---|---|---|
| E-235-3/8-HD | 3/8 | 1/8 | 3/8 x 2 3/4 | 109 | 1,300 |
| E-235-1/2-HD | 1/2 | 1/4 | 1/2 x 2 3/4 | 201 | 3,150 |

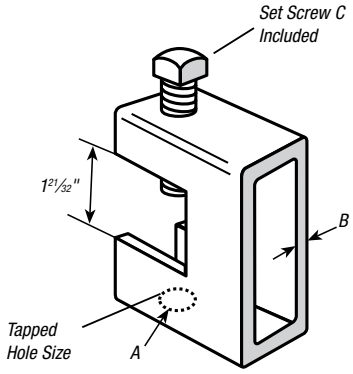
*Finish: Hot-dipped galvanized.*




## U-564 Heavy-Duty Beam Clamp

| CAT. NO. | DIMENSIONS (IN.) A | B | C | WT. LBS./C | DESIGN LOADS LBS. |
|---|---|---|---|---|---|
| U-564-3/8 | 3/8 | 1/4 | 3/8 x 2 3/4 | 1,300 | 25 |
| U-564-1/2 | 1/2 | 1/4 | 1/2 x 2 3/4 | 3,150 | 15 |

*Finish: Hot-dipped galvanized.*



# Beam Clamps and Hanger Rod Supports

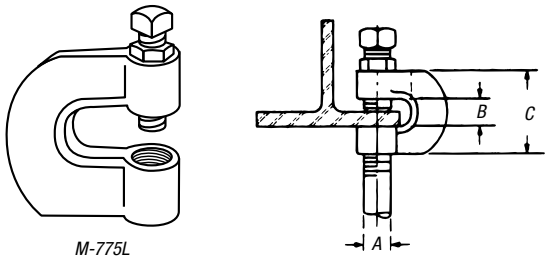
## M-775L Clamp with Lock Nut

| CAT. NO. | ROD SIZE A (IN.) | B (IN.) | C (IN.) | DESIGN LOAD LBS. | STD CTN. |
|---|---|---|---|---|---|
| M-775L-1/2 | ½ | ¾ | 2 | 440 | 50 |
| M-775L-5/8 | ⅝ | ¾ | 2 | 440 | 50 |
| M-775L-3/4 | ¾ | ¾ | 2 | 500 | 50 |

*Standard Finishes - GoldGalv® brand or Black (B) Malleable Iron.*

*EG=Electro-Galv*

*B=Black*




*M-775L*

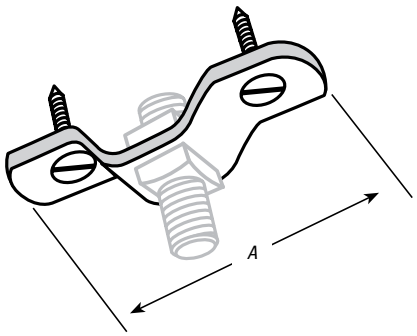
## U-579 Beam Clamp for Hanging Rod

| CAT. NO. | A (IN.) | STD. CTN. |
|---|---|---|
| U579-3/8 | 3½ | 25 |
| U-579-1/2 | 4¼ | 25 |

*Nuts and wood screws not included.*

*Mounting holes 13/32".*

*Finishes - GoldGalv® brand Malleable Iron.*

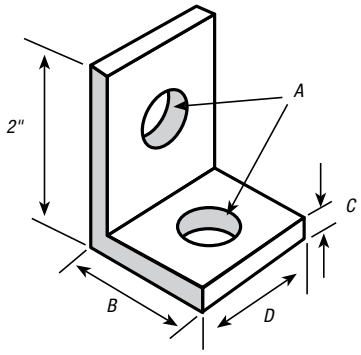



*U-579 Ceiling Flange*

## 540 Beam Clamp for Hanging Rod

| | DIMENSIONS (IN.) | | | | |
|---|---|---|---|---|---|
| CAT. NO. | A | B | C | D | STD. CTN. |
| 540 3/8 | ⅛ | 1⅞ | ¼ | ⅞ | 25 |
| 540-5/8 | 11/16 | 2½ | ⅜ | 2 | 25 |

*Finishes – GoldGalv® brand or Black (B).*




*540 Side Beam Hanger Clip*



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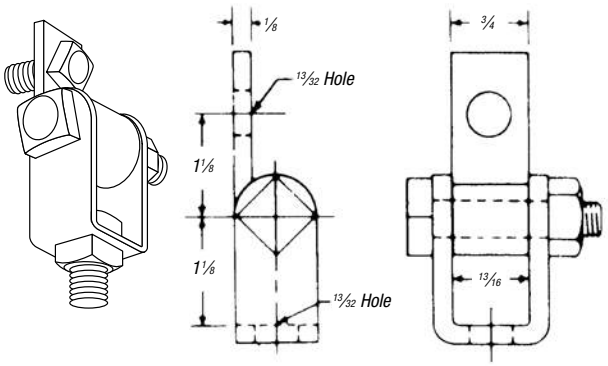
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# Beam Clamps and Hanger Rod Supports



## S5413/8 Swing Connector (⅜" Rod)

Used to secure a ⅜" hanger rod to the side or bottom of beam or ceiling.




| CAT. NO. | WT. LBS./C |
|---|---|
| **S5413/8** | 28 |

*Assembly requires two (⅜") square nuts. Also screw or bolt for fastening to beam or ceiling.*

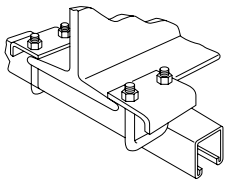
*⅛" steel.*

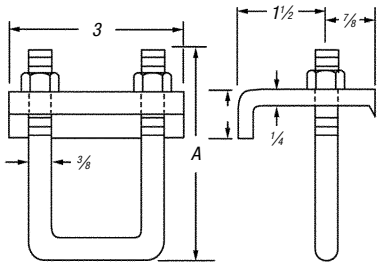
*Load rating of 700 lbs. with a safety factor of 3.*

*Galv-Krom® finish.*

## U501 Channel to Beam Clamp

Hardened points bite into beam flange. Fits all I-beams where edge of beam flange does not exceed .8" thickness





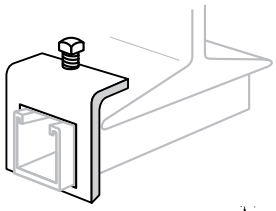

| CAT. NO. | FOR STRUCTURE CHANNEL | DIMENSION A (IN.) | WT. LBS./C |
|---|---|---|---|
| **U501** | B-900, B-905, B-906, B-907 | 3¼ | 76 |
| **U501SS** | Stainless Steel | 3¼ | 76 |
| **U502** | B-901, B-900-2A, B-902, B-903 | 4¾ | 88 |
| **U502SS** | Stainless Steel | 4¾ | 88 |

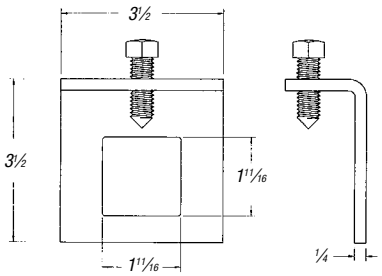
** Load rating of 2,200 lbs. with a safety factor of 3.*

*¼" steel, ⅜-inch U-bolt.*

*Standard finish: Galv-Krom®.*

## A597 Channel to Beam Clamp






| CAT. NO. | DESIGN LOAD LBS./EA. | CHANNEL SERIES | WT. LBS./C |
|---|---|---|---|
| **A597** | 800 | B-900, B-905, B-995 | 108 |

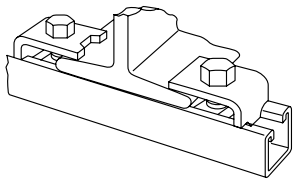
*½" x 1 ½" set screw included.*

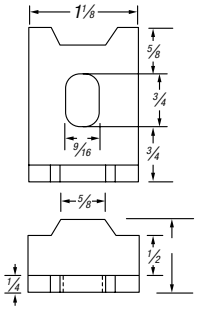
*Galv-Krom® finish.*

# Beam Clamps and Hanger Rod Supports

## 512-U Channel to Beam Clamp

Secures all sizes of Kindorf® channel to beams where flange edge does not exceed .8" thickness.






| CAT. NO. | DESIGN LOAD (LBS.) | WT. LBS./C |
|---|---|---|
| **512-U** | 500 | 25 |

*Load rating each clamp 800 lbs. with a safety factor of 3.*

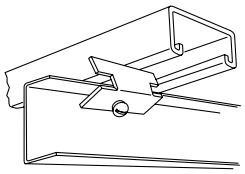
*Assembly requires one H-113-E bolt and one B-910-1/2 steel nut per clamp — order separately.*

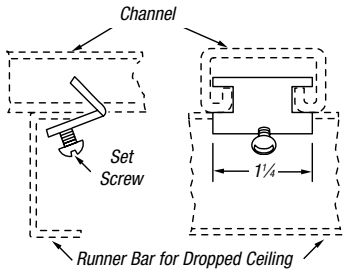
*¼" steel.*

*Galv-Krom® finish.*

## E-764 Channel Clip

Complete with set screw for clipping a length of channel slot-side down and across the runner bars of a dropped ceiling installation.





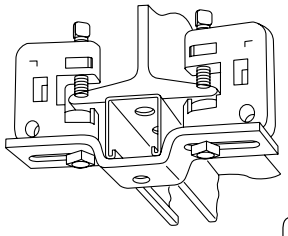

| CAT. NO. | WT. LBS./C |
|---|---|
| **E-764** | 4 |

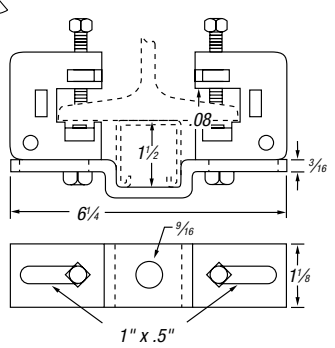
*At least two required per each such application.*

*Galv-Krom® finish.*

## E-765 Center Beam Clamp

Clamps 1½" x 1½" Kindorf® channel to beams where beam flange does not exceed ¾" thickness and 4" to 6¾" wide.






| CAT. NO. | LOAD RATING (LBS.) | WT. LBS./C |
|---|---|---|
| **E-765** | 800 | 112 |

*Load rating is 800 lbs. with a safety factor of 3.*

*Furnished assembled.*

*⅛" steel clamps, 3/16" steel strap.*

*Galv-Krom® finish.*



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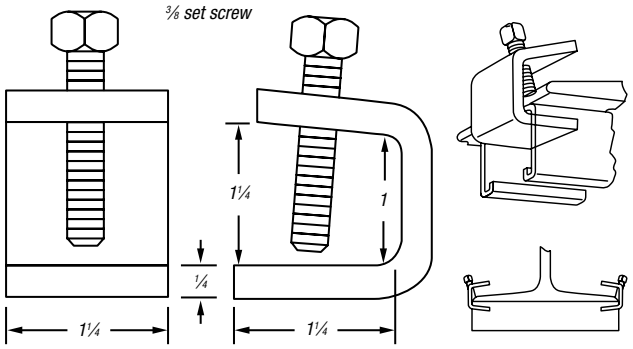
www.tnb.com

# Beam Clamps and Hanger Rod Supports



## U514 Channel Support

Supports any size Kindorf® channel. Clamps to I-beam where flange edge does not exceed .8" thickness.




| CAT. NO. | LOAD RATING (LBS.) | WT. LBS./C |
|---|---|---|
| U514 | 800 | 44 |

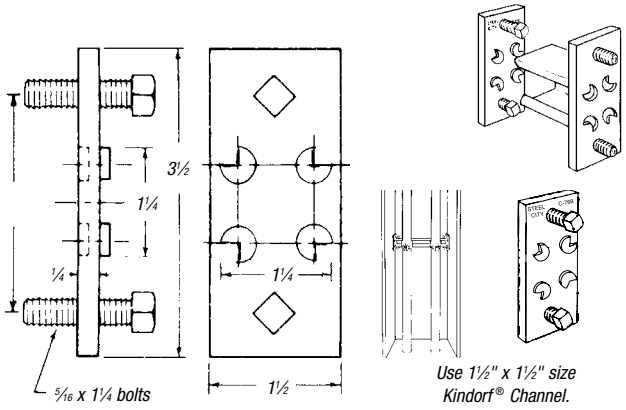
*Load rating is 800 lbs. with a safety factor of 3.*

*¼" steel.*

*Galv-Krom® finish .*

## E-768 Column Mount Support

For use with 1½" x 1½" channel. Provides a rigid support between 'H' beam flanges for mounting pipe, conduit, outlet boxes and panel boards.




| CAT. NO. | LOAD RATING (LBS.) | WT. LBS./C |
|---|---|---|
| E-768 | 800 | 50 |

*Two E-768's required for installation.*

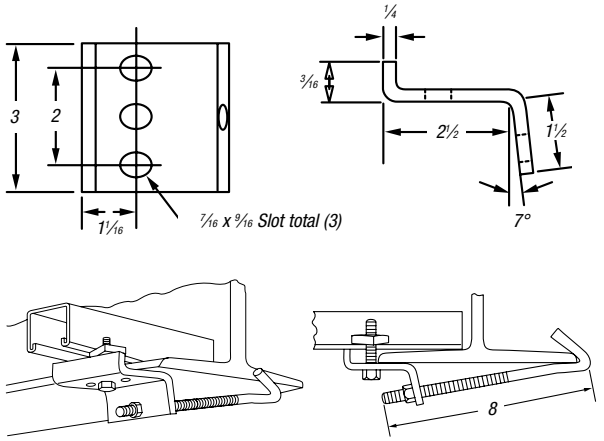
*Use C-105, C-106 or C-107 straps for mounting ½" to 8" pipe on channel section.*

*Load rating of 800# with a safety factor of 3.*

*Galv-Krom® finish.*

## E-781 Single-Beam Clamp

For use in attaching channel on top of beam flange with slot side down. Members are shipped assembled for easy installation.

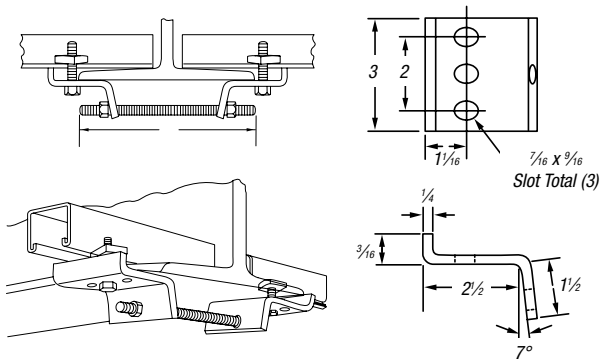



| CAT. NO. | WT. LBS./C |
|---|---|
| E-781 | 133 |

*Galv-Krom® finish.*

## E-782 Double-Beam Clamp

For use in attaching channel on both sides of a beam flange with slot side down. Members are shipped assembled for easy installation.

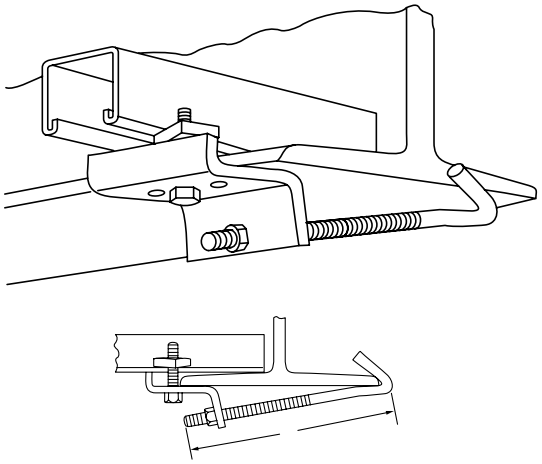


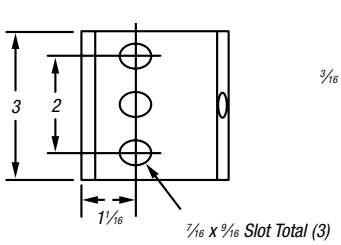

| CAT. NO. | WT. LBS./C |
|---|---|
| E-782 | 235 |

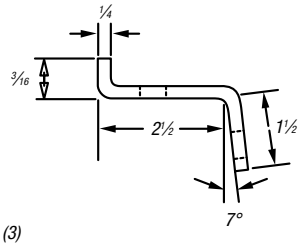
*Galv-Krom® finish.*

## U-504 Single Beam Clamp

For use in attaching channel on top of beam flange with slot side down. Members are shipped assembled for easy installation.





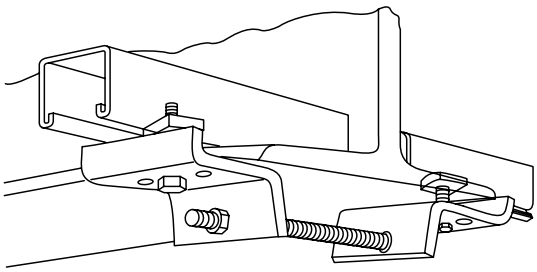



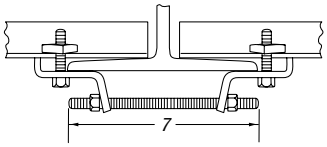

| CAT. NO. | WT. LBS./C |
|---|---|
| U504 | 133 |

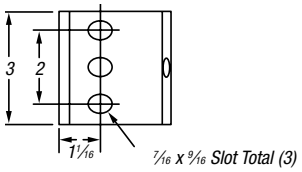
*Galv-Krom® finish.*

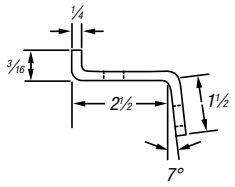
## U-505 Double Beam Clamp

For use in attaching channel on both sides of a beam flange with slot side down. Members are shipped assembled for easy installation.






| CAT. NO. | WT. LBS./C |
|---|---|
| U505 | 235 |

*Galv-Krom® finish.*



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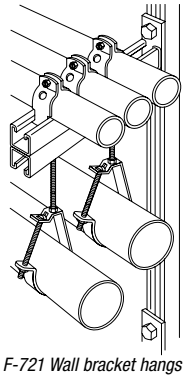
# Wall and Support Brackets

Kindorf® wall brackets provide a ready-made shelving arrangement that can be attached quickly to the supporting channels.

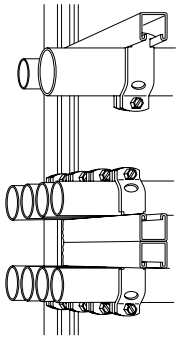
Utilizing the built-in advantages of the Kindorf® Channel, the support bracket members allow a great deal of flexibility in meeting the structural framing needs.

Axle supports and a variety of wall brackets all adapt to the standard Kindorf® channel and allow additional flexibility in the support of cables, conduit, pipe and other equipment.

The application of axle supports and bracket members can be made on either the continuous slot of the channel or the pre-punched hole side. Utilizing the 1½" hole spacing, greater adaptability is attained with a minimum of fittings.



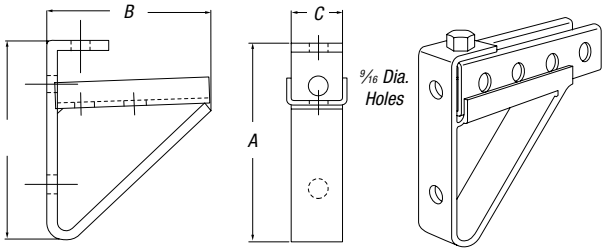
*F-721 Wall bracket hangs and supports pipe runs.*



*Conduit installations supported above and below by F-721 wall bracket.*

## F-715 Wall Bracket

Mounts on Kindorf® channel or directly to wall. F-715 bracket supports 1½" or 1⅝" channels. Brackets allow for a variety of support channel lengths. The continuous tray on brackets prevent lateral movement of supported channels. Support channels can be fastened from top, bottom or both.

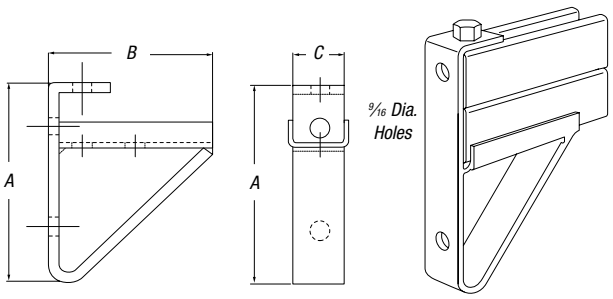



| CAT. NO. | DIMENSIONS (IN.) A | B | C | WT. LBS./C. |
|---|---|---|---|---|
| F-715 | 5 27/32 | 4⅝ | 1½ | 163 |

*Galv-Krom® finish.*

## F-716-3 Wall Bracket

Mounts on Kindorf® channel or directly to wall. F-716-3 bracket supports 3" deep or back-to-back channels. Brackets allow for a variety of support channel lengths. The continuous tray on brackets prevent lateral movement of supported channels. Support channels can be fastened from top, bottom or both.

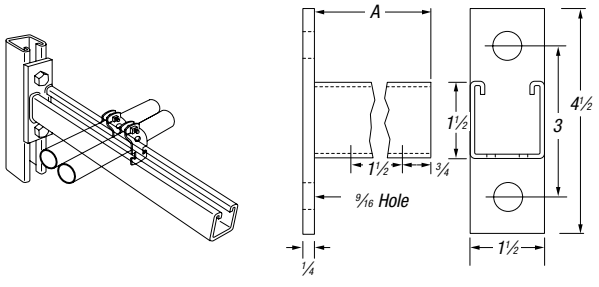



| CAT. NO. | DIMENSIONS (IN.) A | B | C | WT. LBS./C. |
|---|---|---|---|---|
| F-716-3 | 7 1/32 | 4⅝ | 1½ | 179 |

*Galv-Krom® finish.*

## F-720 Wall Bracket

Mounts on Kindorf® channel, concrete inserts or directly to wall. Continuous-slot accepts C-105, C-106 and C-107 series pipe straps. Bracket is 12-gauge steel, 1½" x 1½" channel welded to a ¼" back plate. May be attached to either the continuous slot side or pre-punched holes in back or side of Kindorf® channel.




| CAT. NO. | DIM. A (IN.) | END LOAD RATING LBS.* | WT. LBS./C |
|---|---|---|---|
| F720 6** | 6 | 600 | 132 |
| F-720-9** | 9 | 450 | 155 |
| F-720-12** | 12 | 300 | 200 |
| F-720-18 | 18 | 200 | 275 |
| F-720-24** | 24 | 150 | 350 |

** Safety factor of 3.*

*** This product available in green & hot-dipped galvanized.*

*Standard finish: Galv-Krom®.*

# Wall and Support Brackets

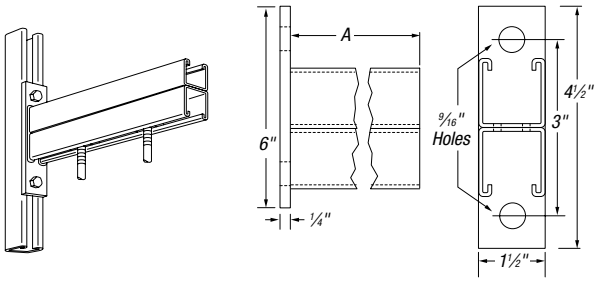
## F-721 Wall Bracket

Double channel to provide continuous slot for both top and bottom mounting. 12-ga. steel, ¼-inch back plate. May be attached to either the continuous slot side or pre-punched holes in back or side of Kindorf® channel.

| CAT. NO. | DIM. A (IN.) | END LOAD RATING LBS.* | WT. LBS./C |
|---|---|---|---|
| F721 18 | 18 | 300 | 568 |
| F-721-24 | 24 | 225 | 736 |
| F-721-30 | 30 | 180 | 904 |
| F-721-36 | 36 | 150 | 1072 |

** Safety factor of 3.*

*Standard finish: Galv-Krom®.*




## F-735 and F-736 Axle Supports

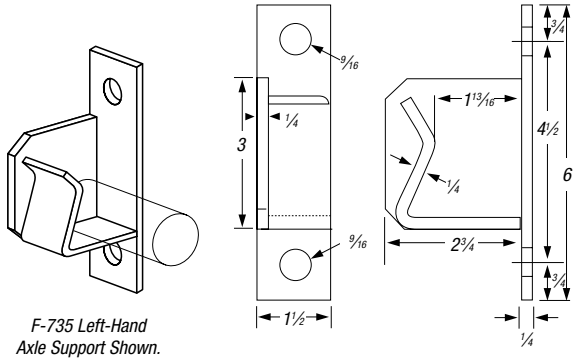
For use on storage racks constructed on Kindorf® channel. Supports reels of electrical cables, wire rope, chain and other materials. Left-hand axle support illustrated. F-736 identical except right hand. May be attached to either the continuous slot side or pre-punched holes in back or side of Kindorf® channel.

| CAT NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| F-735 | Left Hand | 165 |
| F-736 | Right Hand | 165 |

*Assembly requires two B-910-1/2 steel nuts and two H-113-B bolts.*

*Accepts up to 1¼" steel bar or pipe for axle.*

*Galv-Krom® finish.*




*F-735 Left-Hand Axle Support Shown.*

## F-737 Double Axle Support

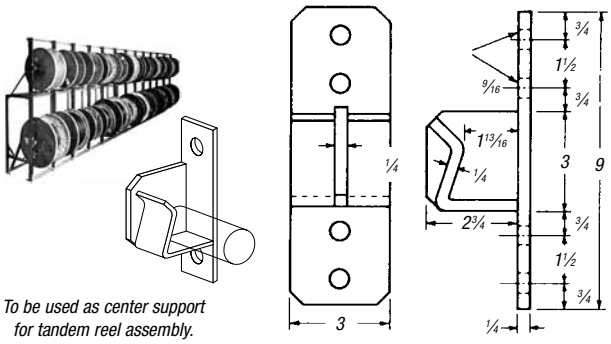
Typical Kindorf® Space-Saver reel rack. Kindorf® reel racks are easy to build, exceptionally strong and economical. Racks adjust easily to accommodate a variety of reel sizes. No special tools needed.

| CAT. NO. | WT. LBS./C |
|---|---|
| F-737 | 335 |

*Assembly requires four B-910-1/2 steel nuts and four H-113-B bolts.*

*To be used with F-735 and F-736. ¼" steel.*

*Galv-Krom® finish.*




*To be used as center support for tandem reel assembly.*

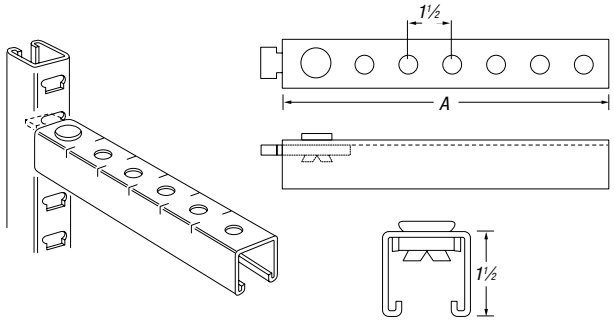
## F-739 Telephone Cable Hook

Cantilever-type cable hooks fit into 'T' slot on B-904 channel for rigid, non-slip support. Fast mounting, no hardware to tighten.

| CAT. NO. | DIMENSION A (IN.) | WT. LBS./C |
|---|---|---|
| F-739-4-1/2 | 4½ | 81 |
| F-739-7-1/2 | 7½ | 122 |
| F-739-10-1/2 | 10½ | 162 |
| F-739-13-1/2 | 13½ | 198 |
| F-739-18 | 18 | 278 |

*Has 9/16" diameter holes on 1½" centers to allow for easy tie banding of cables.*

*Galv-Krom® 12-ga. steel.*






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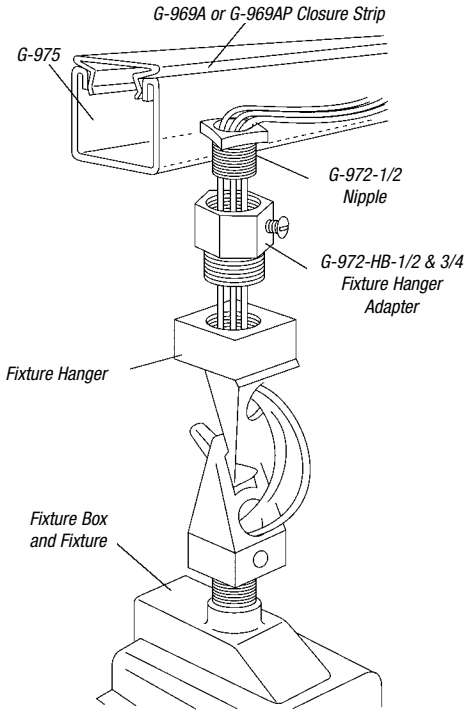
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# For Mounting or Suspending High-Intensity Lighting Fixtures in High-Bay Installations.

## Surface Raceway and Lighting Support Systems

The Kindorf® Lighting Support System consists of high-quality construction materials that afford definite installation advantages to those most concerned with lighting installations. When used as a surface metal raceway, it is UL Listed and complies with National Electrical Code® Article 386.




### To the Owner

A flexible installation requiring fewer attachments to the building structure with built-in provisions for easy maintenance and future modifications when lighting fixtures must be added, deleted or relocated. Kindorf® channel and fittings form a strong, economical and attractive support and wiring system for fixtures and other equipment.

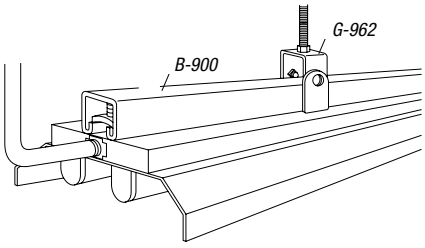
### To the Architect and Engineer

A system of construction least demanding on general design conditions and readily adaptable to all spacing of pillars, purlins and other structural components. Supply will not delay a job because Kindorf® channel is stocked at many locations throughout the country. The Kindorf® System saves planning time because it is designed for fast and easy installation by the contractor with little or no detailing.

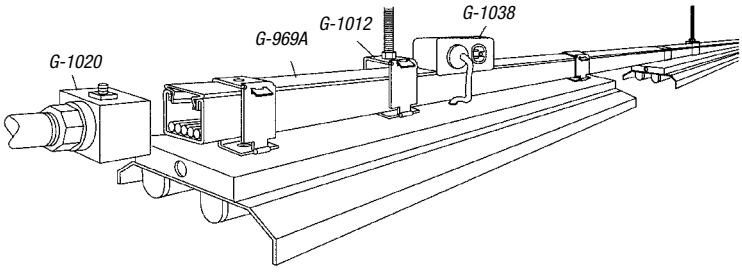
### To the Contractor

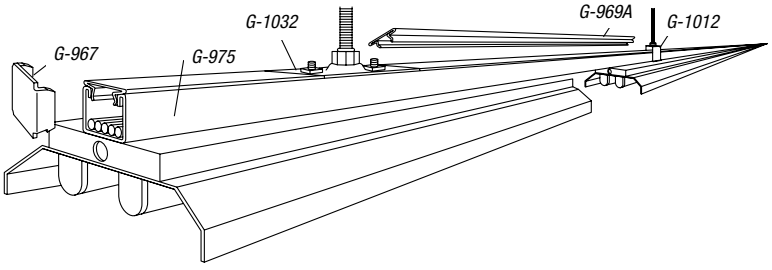
The Kindorf® System consists of time-saving materials that will simultaneously provide for the electrical feed and the mechanical support of lighting and other equipment. Kindorf® affords a means of making fewer attachments to the structure at wider spacing. It ensures true and rigid alignment and lends itself to systematic preassembly methods which economize on labor. No special tools for installation and no painting is required. Kindorf® speeds all jobs because a complete line of fittings assures easy solution of many installation problems as they arise in the field.

## Other Mechanical Details.




*Channel raceway system supports and feeds fluorescent lighting fixtures.*

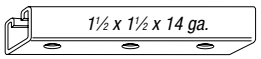


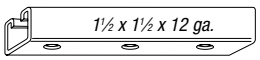
# Surface Raceway and Lighting Support Systems

## Surface Raceway Channel Systems

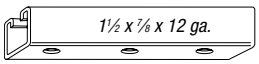
- Knock-out type by means of ½" channel knockouts on 6" centers



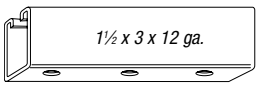

G-975-M



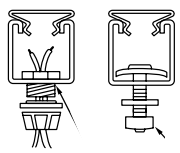

G-975




G-965



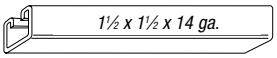

G-955



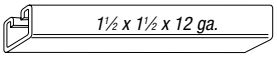
G-972-1/2 G-974-1-1/4

*Nipple*
*Lock nut*
*and bushing*

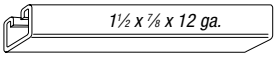
- Plug-in type by means of sliding fixture hanger



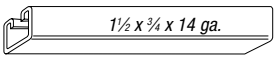

B-900-M



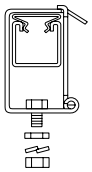

B-900




B-901



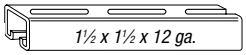

B-906



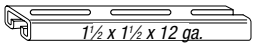
G-1012
*Hanger with H-115-A bolt*
*and square nut plus*
*G-1016 and H-118-C washers*

## Channel Support Lighting Systems

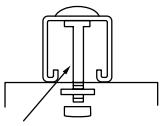
- Shoulder-bolt type by means of special shoulder bolt 13/32" x 3" slots on 4" centers




G-953

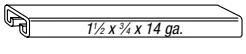



G-956

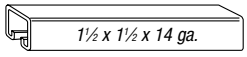


G-973-2-1/4

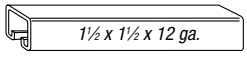
- Spring-nut type by means of spring-nut and bolt combination



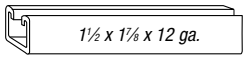

B-906



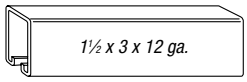

B-900-M



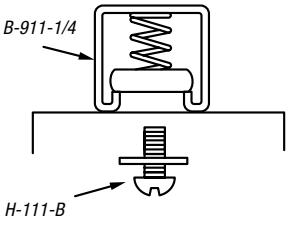

B-900




B-901




B-902




### Electrical Conductors "Lay-in" the Channel

Kindorf® Surface Raceway channels provide a central wiring distribution system with conductor capacity that exceeds requirements of any lighting layout and with "power to spare" for other uses. Channel adapts to any interval of structural support — may be dropped to any level where it becomes a rigid platform for fixture attachment. Lighting fixtures may be spaced and fastened anywhere along the channel system with "plug-in" or direct-feed electrical connection.

Branch lighting circuit conductors are completely enclosed in channel from panel to fixture, eliminating the ordinary "clutter" of external conductors and protecting the wires from physical damage.

*Listed by Underwriters Laboratories, Inc.*

Kindorf® channels, installed slot-side down, are designed to provide fixture support only. A range of accessory fittings permit fixture attachment to the channel safely and securely in an approved manner. Channels with solid base or with slots are generally used for simple channel support systems.

Channel support systems combine economy of investment with maximum strength and rigidity. The continuous-slot channel provides complete flexibility of lighting layout with fixture spacing continuous or intermittent. Fixtures may be added or relocated to meet changing requirements without disturbing the basic support system. The rigid channels maintain fixture alignment and adapt to any interval of structural support.



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# Surface Raceway and Lighting Support Systems



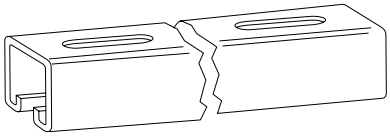
## G-950 Fixture Hanging Channel

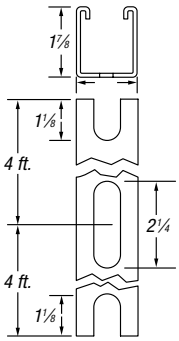
| CAT. NO. | DESCRIPTION | JOINER |
|---|---|---|
| G 950 | 1½" x 1⅞" x 12 ga. | G-978C |

*11⁄16" x 2¼" slots on 4 foot centers.*

*20 ft. lengths only 194 lbs./C ft.*

*Standard finish: Galv-Krom®.*





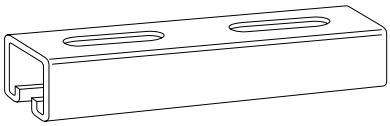

## G-953 Fixture Hanging Channel

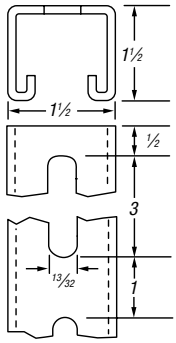
| CAT. NO. | DESCRIPTION | JOINER |
|---|---|---|
| G-953 | 1½" x 1½" x 12 ga. | G-958 |

*Fixtures attached to channel of G-973-2-1/4 shoulder bolts. 154 lbs./C ft.*

*13⁄32" x 3" slots on 4" centers.*

*Standard finish: Galv-Krom®.*






## G-955 Fixture Hanging Channel

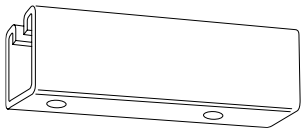
To be used in place of G-975 channel when heavy fixtures are used or supports are on wider spacing.

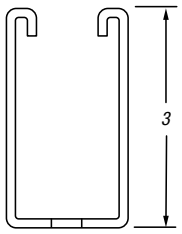
| CAT. NO. | DESCRIPTION | JOINER | END CAP |
|---|---|---|---|
| G-955 | 1½" x 3" x 12 ga. | G-978-D | G-957<br>G-959 |

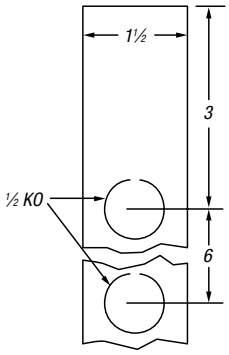
*270 lbs./C ft. UL Listed for raceway.*

*½" KOs on 6" centers.*

*Standard finish: Galv-Krom®.*






## G-956 Fixture Hanging Channel

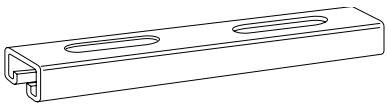
Similar to G-953 channel except lighter gauge and only ¾" deep.

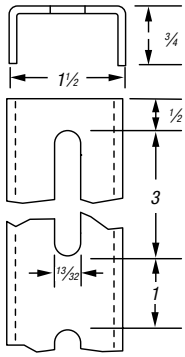
| CAT. NO. | DESCRIPTION | JOINER |
|---|---|---|
| G-956 | 1½" x ¾" x 14 ga. | G-960 |

*Fixtures attached to channel by means of G-973-1-1/2 shoulder bolts or G-973-2-1/4 fixture bolts. 80 lbs./C ft.*

*13⁄32" x 3" slots on 4" centers.*

*Standard finish: Galv-Krom®.*





## G-957 End Cap

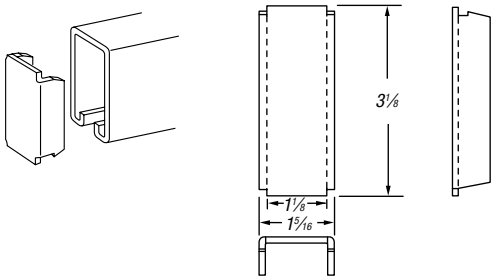
Blank end cap for use with G-955 and B-902 channel.

| CAT. NO. | WT. LBS./C |
|---|---|
| G 957 | 14 |

*14 ga. steel.*

*UL Listed for raceway.*

*Galv-Krom® finish.*




## G-958 Channel Joiner

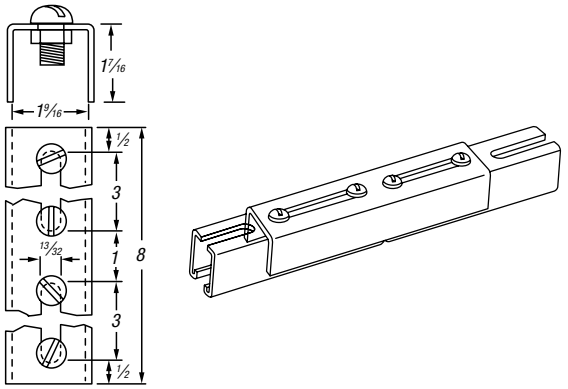
For 1½" deep-slotted channel G-953.

| CAT. NO. | WT. LBS./C |
|---|---|
| G 958 | 92 |

*Four ⅜" x ¾" bolts and nuts are furnished with the joiner.*

*14 ga. steel.*

*Galv-Krom® finish.*




## G-959 End Cap

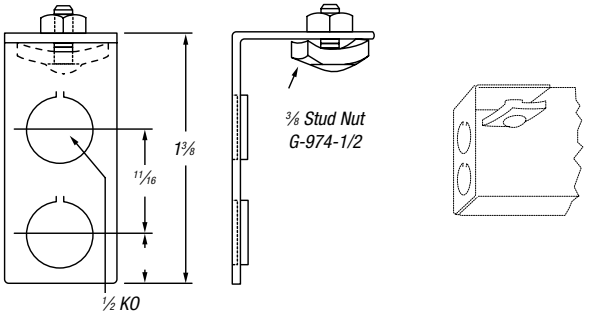
For use with G-955 and B-902 channel.

| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 959 | With two ½" Knockouts | 31 |

*12 ga. steel.*

*UL Listed for raceway.*

*Galv-Krom® finish.*




## G-960 Channel Joiner

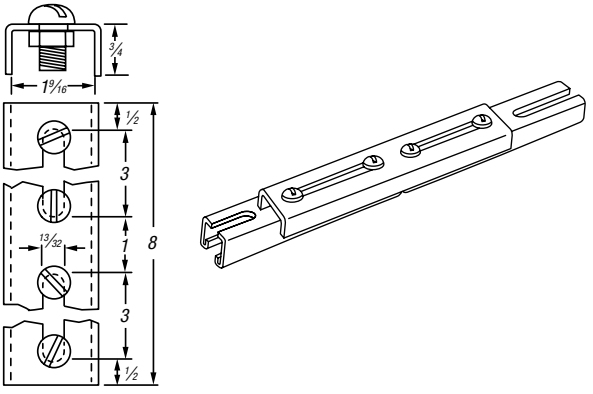
For ¾" deep-slotted channel G-956.

| CAT. NO. | WT. LBS./C |
|---|---|
| G 960 | 70 |

*Four ⅜" x ¾" bolts and nuts are furnished with the joiner.*

*14 ga. steel.*

*Galv-Krom® finish.*






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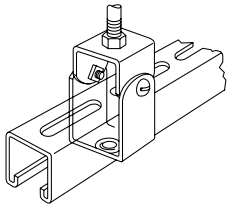
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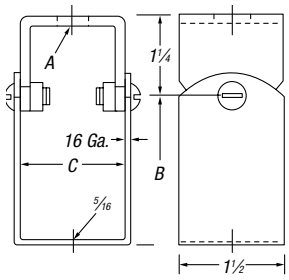
## G-962 and G-962-D Channel Hangers

G-962 fits around 1½" or 1⅞" deep channel.
G-962-D series hangers for 3" deep channel.

| CAT. NO. | WT. LBS./C | CAT. NO. | WT. LBS./C | HANGER SIZE (IN.) | DIM A. (IN.) |
|---|---|---|---|---|---|
| **G 962 1** | 40 | **G-962-D-1** | 47 | ¼ and ⅜ rod | 13/32 |
| **G-962-2** | 42 | **G-962-D-2** | 47 | ½ rod and ¼ pipe | 9/16 |
| **G-962-3** | 39 | **G-962-D-3** | 47 | ⅜ pipe and ⅝ rod | 11/16 |
| **G-962-4*** | 47 | **G-962-D-4**** | 47 | ½ pipe | ⅞ |

** Load rating of 600 lbs. with a safety factor of 3.*
*** Load rating of 700 lbs. with a safety factor of 3.*
*"B" dimension for G-962: 2½"; for G-962-D: 4".*
*UL Listed for raceway.*
*"C" dimension for G-962, 1 37/64", for G-962-D, 3 7/64".*
*Galv-Krom® finish.*



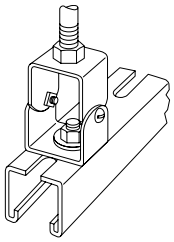


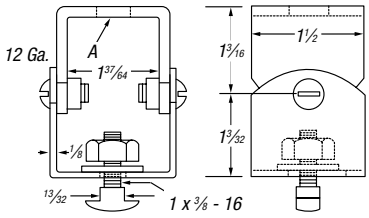

## G-963 Channel Hanger

For use with G-953 or G-956 channel.
Does not interfere with fluorescent fixtures.

| CAT. NO. | HANGER SIZE (IN.) | DIM. A (IN.) |
|---|---|---|
| **G-963-1** | ¼ and ⅜ rod | 13/32 |
| **G-963-2** | ½ rod and ¼ pipe | 9/16 |

*Load rating of 900 lbs. with a safety factor of 3.*
*48 lbs./C.*
*Galv-Krom® finish.*



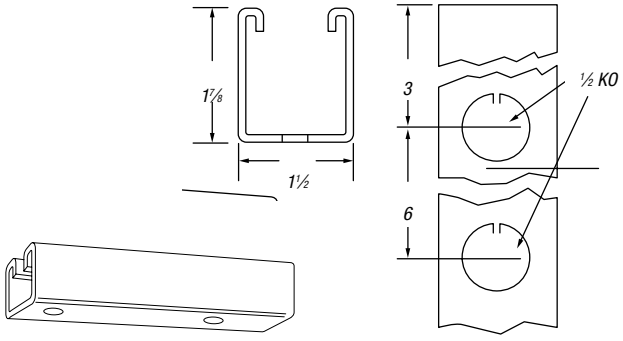



## G-965 Fixture Hanging Channel

Provides a combination fixture support and surface raceway.

| CAT. NO. | DESCRIPTION | JOINER | END CAP |
|---|---|---|---|
| ***1½" x 1⅞"*** | | | |
| **G-965** | 12 ga., 190#/C ft. | G-978-C | 6959 |

*UL Listed for raceway.*
*½" knockouts on 6" centers.*
*Standard finish: Galv-Krom®.*

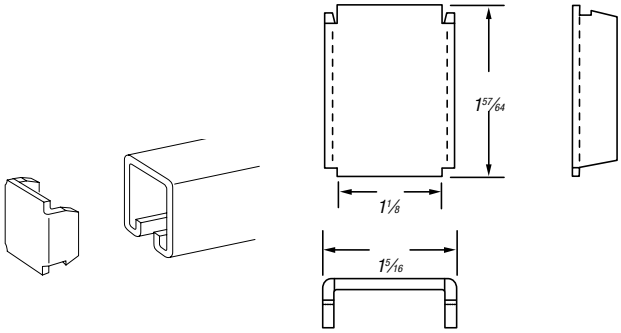



## G-966 Blank End Cap

For 1⅞" deep channel.

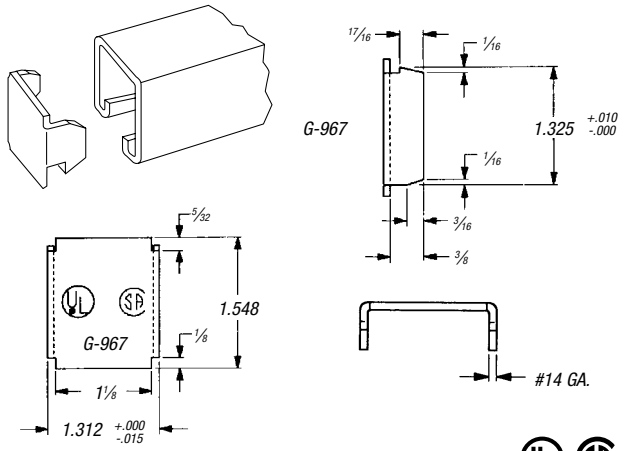
| CAT. NO. | WT. LBS./C |
|---|---|
| **G 966** | 8 |

*UL Listed for raceway.*
*Galv-Krom® finish.*



## G-967 Blank End Cap

- For use with 1½" deep channel



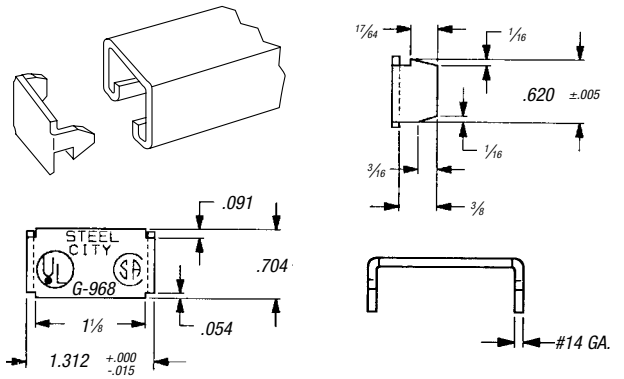

| CAT. NO. | WT. LBS./C |
|---|---|
| G 967 | 6 |

*UL Listed for raceway.*

*Galv-Krom® finish.*

## G-968 Blank End Cap

- For ¾" deep channel



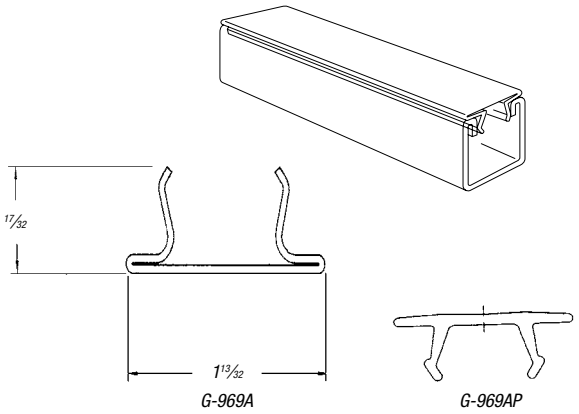

| CAT. NO. | WT. LBS./C |
|---|---|
| G 968 | 3 |

*UL Listed for raceway.*

*Galv-Krom® finish.*

## G-969A Closure Strip for Kindorf® Channel

- For use with all channel series to complete enclosure



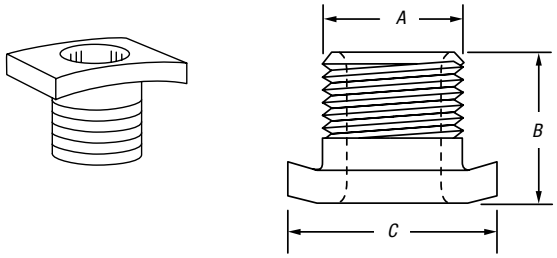

| CAT. NO. | DESCRIPTION |
|---|---|
| G 969A | Steel Closure Strip — Galv-Krom® finish |
| G-969AP | Plastic Closure Strip — Gold |

*19 ga. steel. 35 lbs./C.*

*UL Listed for raceway.*

## G-972 Nipple Malleable Iron

The ½" size can nipple fixtures through channel knockouts. All sizes can be fastened to the open slot of all Kindorf® channels. Locknut supplied with nipple.




| CAT. NO. | DIMENSIONS (IN.) A | B | C | WT. IN LBS./C |
|---|---|---|---|---|
| G 972 1/2 | ½ pipe size | ⅞ | 1¼ | 7 |
| G-972-3/4 | ¾ pipe size | ⅞ | 1¼ | 11 |
| G 972 L 1/2 | ½ pipe size | 2 | 1¼ | 9 |

*The extra length of the G-972-L-1/2 permits its use as a spacing nipple when locked into knockout or continuous slot.*

*Load rating of 750 lbs. with a safety factor of 3.*

*Galv-Krom® finish.*



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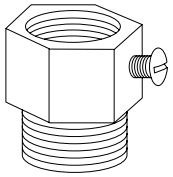
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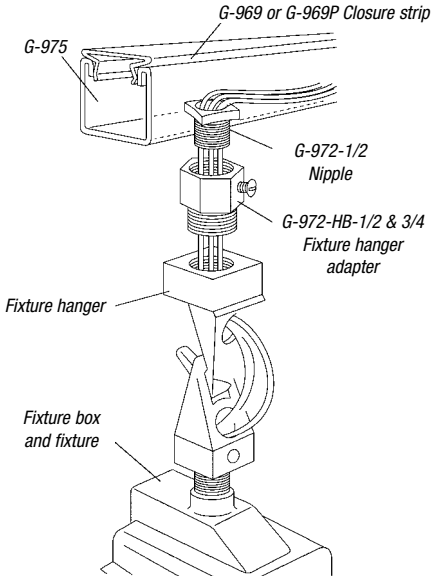
## G-972-HB-1/2 Steel Fixture Hanger Adapter

The Fixture Hanger Adapter extends the flexibility of the Kindorf® System by easily adapting the ¾" hanger size of high-intensity fixtures to channel mounting.

The hanger adapter securely mounts the fixture hanger or box to the channel through the ½" KO in the base. No special tools are needed for installation of fittings and fixtures.

Kindorf® channel, with ½" KOs every 6", hangs and feeds the fixtures — thus simplifying installation.

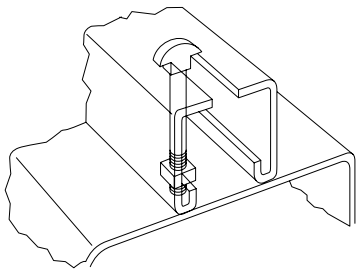





| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| **G 972 HB 1/2** | Galv-Krom® finish | 17 |

## G-973 Shoulder Type Fixture Bolt and Nut

For use in fastening fixtures to slotted channels. Permits the preassembly of hardware to the fixture. The head of the G-973 is simply inserted into the channel slot and twisted 90° to seat. The fixture is secured tightly when the nut is run home.

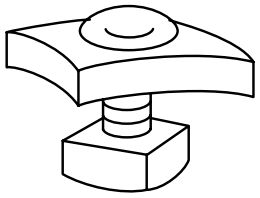


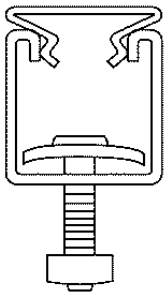
| CAT. NO. | USED WITH CHANNEL | SIZE (IN.) | WT. LBS./C |
|---|---|---|---|
| **G 973 1 1/2** | G-956 | ½ x 1½ | 7 |
| **G 973 2 1/4** | G-953 | ⅜ x 2¼ | 10 |

*Galv-Krom® finish.*

## G-974 Fastener

Will fasten fluorescent fixtures to G-975 through knockouts or to the open slot of all Kindorf® channels when installed slot down.





| CAT. NO. | SIZE (IN.) | WT. LBS./C |
|---|---|---|
| **G-974-1/2** | ¼ x ½ | 8 |
| **G-974-3/4** | ¼ x ¾ | 8½ |
| **G-974-1** | ¼ x 1 | 9 |
| **G 974 1 1/4** | ¼ x 1¼ | 10 |
| **G-974-1-1/2** | ¼ x 1½ | 11 |

*Galv-Krom® finish.*

## G-975 Fixture Hanging Channel

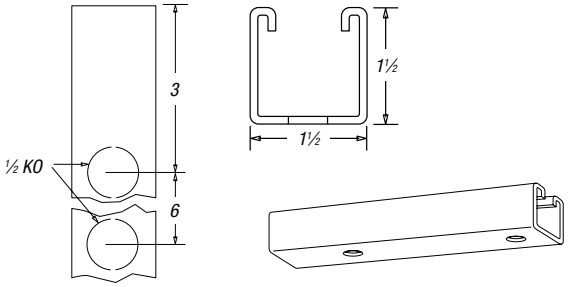
Designed to provide a combination fixture support and surface raceway. Fixture attaches to KOs by G-972-1/2 nipple for wiring, or a G-974 stud nut where wiring is not required.

| CAT. NO. | DESCRIPTION | JOINER | END CAP |
|---|---|---|---|
| ***1½" x 1½"*** | | | |
| **G 975 10** | 12 ga. | G978A | G967 |
| **G 975 20** | 12 ga. | G978A | G967 |
| **G 975 M 10** | 14 ga. | G1503-S | G979 |
| **G 975 M 20** | 14 ga. | G1503-S | G979 |

*G-975: 160 lbs./C ft. G-975-M: 107 lbs./C ft. UL Listed for raceway.*

*½" knockouts on 6" centers.*

*Standard finish: Galv-Krom®.*



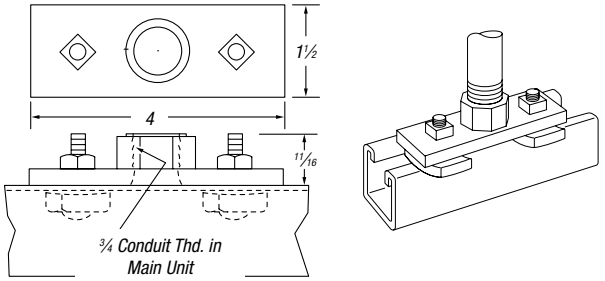

## G-976 Connector

Accepts either ½" or ¾" conduit to feed control channel when used as a combination raceway and lighting fixture support. Includes two stud nuts. Malleable iron.

| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| **G 976** | Galv-Krom® finish | 54 |

*Load rating of 1,000 lbs. with a safety factor of 3.*

*UL Listed for raceway.*




## G-977 Swing Connector (Channel Feed Hanger)

Provides a 15° swing in either direction to the channel run. Accepts ½" or ¾" conduit, or may be adapted for use with ⅜" fixture stem when specified.

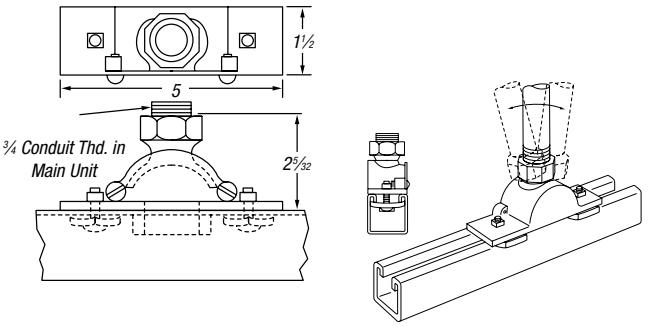
| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| **G 977** | Galv-Krom® finish | 130 |

*Includes two stud nuts.*

*Malleable iron.*

*UL Listed for raceway.*

*Load rating of 1,300 lbs. with a safety factor of 3.*




## G-978 Joiners

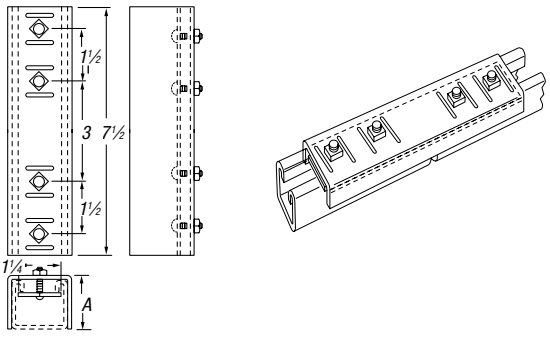
To splice lengths of raceway channel. Installed by tightening nuts on ¼" studs which are permanently attached to a smooth inner plate.

| CAT. NO. | TYPE OF CHANNEL APPLICABLE | DIM. A (IN.) | WT. LBS./C |
|---|---|---|---|
| **G 978** | Use with G-975, G-975-M and B-900, B-900-M | 1½ | 107 |
| **G-978-L** | Use with B-906 | ¾ | 87 |
| **G-978-D** | Use with G-955 and B-902 | 3 | 137 |
| **G-978-C** | Use with B-901, G-950 and G-965 | 1⅞ | 122 |

*Nuts included. 14 ga. steel.*

*UL Listed for raceway.*

*Galv-Krom® finish.*






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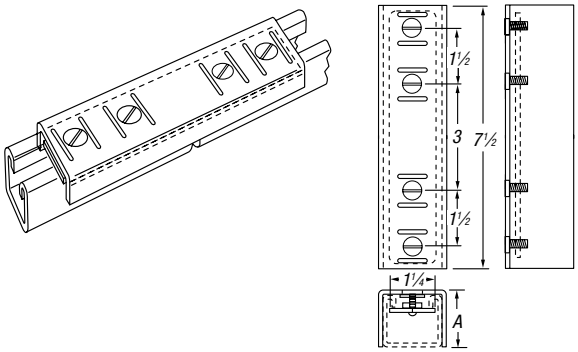
## G-978-A Joiners

For installations where fixtures are mounted flush to slot-down channels. Fastening is accomplished by tightening flat head machine screws.

| CAT. NO. | TYPE OF CHANNEL APPLICABLE | DIM. A (IN.) | WT. LBS./C |
|---|---|---|---|
| G 978A | Use with G-975, G-975-M and B-900, B-900-M | 1½ | 103 |
| G-978-AL | Use with B-906 | ¾ | 83 |

*14 ga. steel.*

*Galv-Krom® finish.*




## G-979 End Cap

Use with G-975 or B-900 channel to provide conduit entrance.

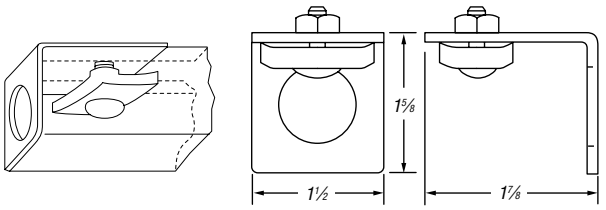
| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 979 1/2 | For ⅞" Hole, ½" Conduit | 25 |
| G-979-3/4 | For 13/32" Hole, ¾" Conduit | 25 |

*Furnished with stud nut.*

*12 ga. steel.*

*UL Listed for raceway.*

*Galv-Krom® finish.*




## G-1007 Panel Adapter

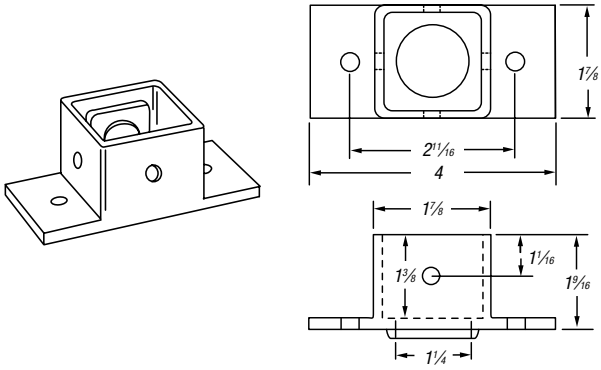
Mounts 1½" x 1½" raceway channel to panel board.

| CAT. NO. | WT. LBS./C |
|---|---|
| G 1007 | 36 |

*Complete with stud nuts.*

*UL Listed for raceway.*

*Galv-Krom® finish.*



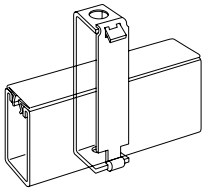

## G-1012 "Lay-In" Channel Hanger

| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 1012 | Galv-Krom® Finish | 33 |

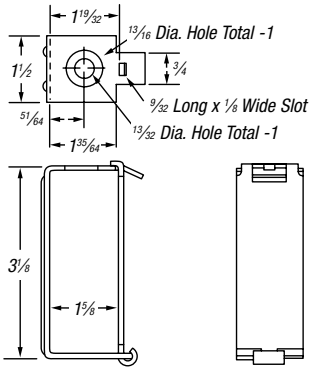
*14 ga. steel.*

*UL Listed for raceway.*

*Load rating of 500 lbs. with a safety factor of 3.*



*Hinged channel hanger for raceway channel.*



## G-1012-D "Lay-In" Channel Hanger

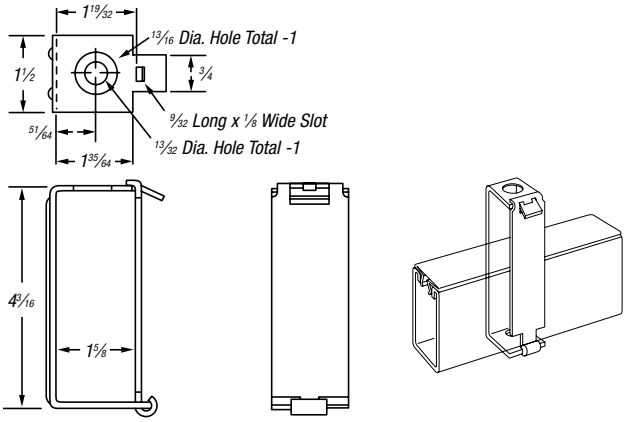
Hinged channel hanger for 3" deep raceway channel.

| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 1012 D | Galv-Krom® Finish | 40 |

*14 ga. steel.*

*UL Listed for raceway.*

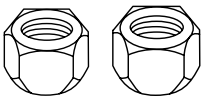
*Load rating of 450 lbs. with a safety factor of 3.*




## G-1013 Hex Swivel Nuts

Two required for each G-1012 channel hanger to provide swivel action.

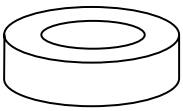
| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 1013 3/8 | For ⅜" Hanger Rod | 7 |
| G-1013-1/2 | For ½" Hanger Rod | 7 |



## G-1016 Rubber Washer

Washers are 1" diameter, ¼" thick with 5/16" hole.
Use with G-1012 fixture hanger as cushion between fixture and hanger.

| CAT. NO. | WT. LBS./C |
|---|---|
| G 1016 | 1 |

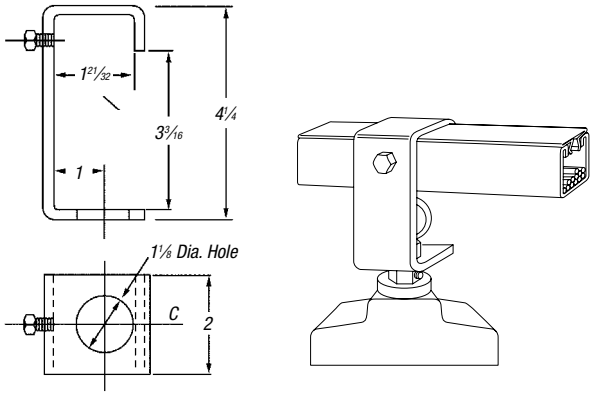


## G-1017 Mercury Vapor Hanger

To support high- or low-bay mercury vapor or heavy incandescent fixtures from raceway channels. Permits plug-in connections with G-1038 raceway outlets.

| CAT NO. | USED WITH CHANNEL | DEPTH SIZE (IN.) | WT. LBS./C |
|---|---|---|---|
| G 1017 | B-900, B-901<br>G-975, G-965 | 4¼ | 76 |

*Galv-Krom® finish.*






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# Surface Raceway and Lighting Support Systems

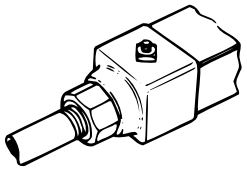


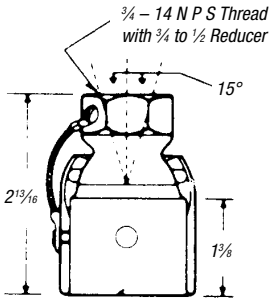
## G-1020 End Swivel Joint

Mounts to 1½" x 1½" raceway channel. Threaded for ¾" conduit or fitting. Swivel action adapter for ½" conduit furnished.

| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 1020 | Galv-Krom® Finish | 40 |

*UL Listed for raceway.*



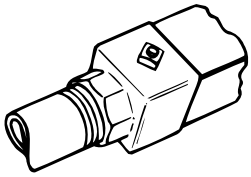


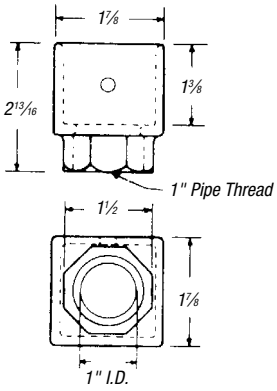

## G-1021 Threaded End Fitting

Mounts to 1½" x 1½" raceway channel. Threaded for 1" conduit or fitting. No swivel action.

| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 1021 | Galv-Krom® Finish | 32 |

*UL Listed for raceway.*





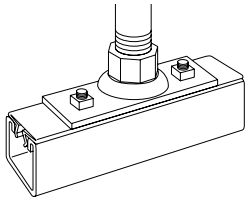

## G-1032 Channel Swivel Joint

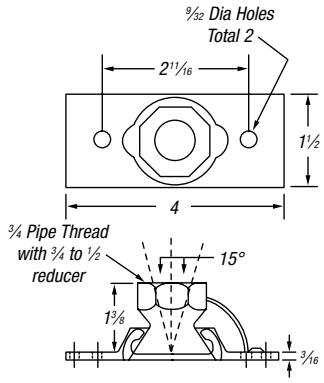
Provides a 15° swivel action (to offset possible movement) for connection of ½" or ¾" conduit to raceway channels. May be accepted for use with ⅜" fixture stem when specified. Order two G-974 ¾" fasteners for channel mounting.

| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 1032 | Galv-Krom® Finish | 25 |

*Load rating of 500 lbs. with a safety factor of 3.*

*UL Listed for raceway.*



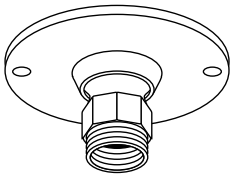


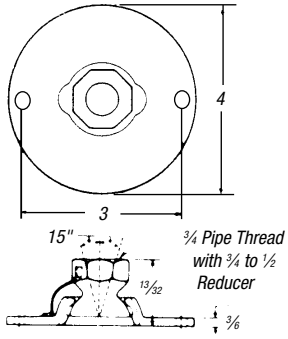

## G-1033 4" Diameter Swivel Cover

Cover for G-2000 through G-2004 junction boxes. Use with ¾" or ½" conduit. Swivel action.

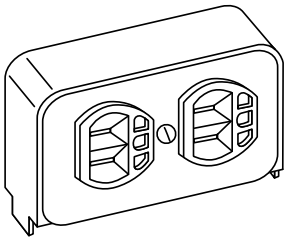
| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 1033 | Galv-Krom® Finish | 35 |

*Load rating 400 lbs. with a safety factor of 3. UL Listed for raceway.*

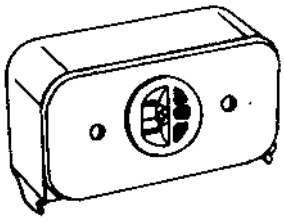




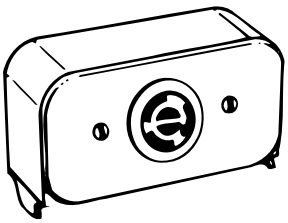
## Raceway Outlets



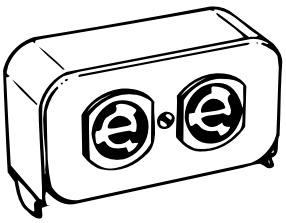
*Complete unit including housing, standard duplex 3-wire, 15-amp, 125-volt NEMA ground receptacle and cover plate.*



*Complete unit including housing, standard single 3-wire, 15-amp, 125-volt NEMA ground receptacle and cover plate.*



*Complete unit including housing, single, 3-wire, 15-amp, 277-volt-twistlock receptacle and cover plate.*

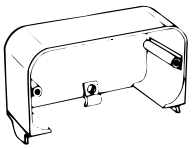


*Complete unit including housing, duplex, 3-wire, 15-amp, 277-volt-twistlock receptacle and cover plate.*

| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 1038 | Gold Finish | 55 |
| G 1038 A | Gold Finish | 50 |
| G-1038-D | Gold Finish | 60 |
| G 1038 E | Gold Finish | 50 |

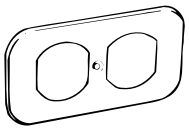
*UL Listed for raceway.*

## G-1038-B Housing Only



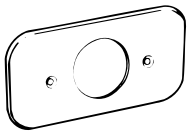
| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 1038 B | Gold Finish | 25 |

## G-1038-C Duplex Cover Plate



| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 1038 C | Gold Finish | 12 |

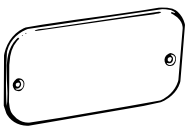
## G-1038-CA Single Cover Plate



| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 1038 CA | Gold Finish | 14 |

*Size of opening: 1.391 diameter*

## G-1038-CX Blank Cover Plate



| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 1038 CX | Gold Finish | 15 |

## G-1060 Nylon Bushing



| CAT. NO. | WT. LBS./C |
|---|---|
| G-1060 | 2 |

*Strain relief bushing to protect lead from fluorescent fixture.*



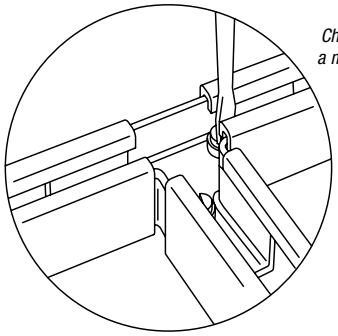
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# Channel Joiners for Lay-In Wiring



*Channel should be supported a minimum of 12" from joiner.*

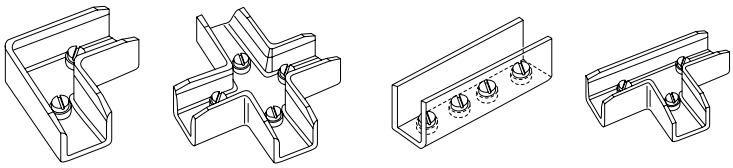
The direction-change joiner fittings for Kindorf® Channels expand to three, the number of channel depths available for complete raceway wiring systems.

Joiner fittings are made for 1½", 1⅞" and 3" depths of 1½" wide channels. These three systems provide raceway conductor fill capacities for any lighting layout and with erected strength to spare for lighting fixture support.

The joiner fitting rests inside the channel without obstructing the channel, or the lay-in of electrical conductors. No time-consuming "fishing" of conductors at the elbows, tee and crosses.

Installation is fast. Simply insert the fitting into the end of the channel and turn the captive set-screw. This "jack-screws" the fitting sidewalls beneath the channel lips for snug, strong joints. Standard Kindorf® Channel Closure Strip is used for a completely enclosed raceway.

*Listed by Underwriters Laboratories, Inc.*



*Elbow (L)* *Cross (X)* *Straight (S)* *Tee (T)*

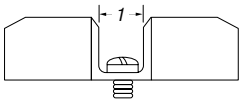
### G-1500, G-1870 and G-3000 Series Direction Change Joiner Assemblies

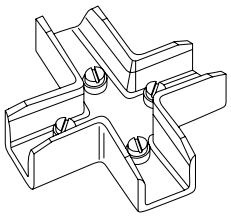
Direction change joiners for 1½", 1⅞" and 3" deep raceway channels complete with screws and washers. Joiners fit into end of channel. When screws are tightened, joiner is forced up against channel lips for secure installation. Conductors can be laid in, no pulling required. No need for junction boxes. Available in X, T, L and S configurations. Support required within 12" of each joiner.

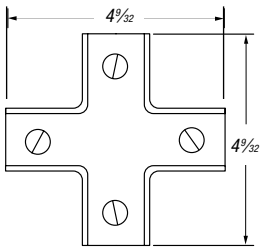
### X-Style — G-1500X, G-1870X and G-3000X

| CAT. NO. | FOR USE WITH CHANNEL NO. | WT. LBS./C |
|---|---|---|
| ***Cast Aluminum*** | | |
| **G 1500 X** | B-900 & G-975 | 44 |
| **G-1870X** | B-901 & G-965 | 51 |
| **G-3000X** | B-902 & G-955 | 79 |

*Galv-Krom® finish.*



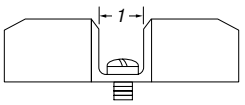



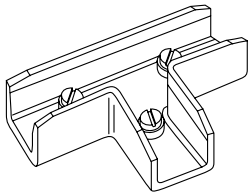


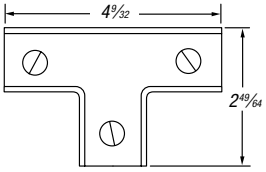

### T-Style — G-1501T, G-1871T and G-3001T

| CAT. NO. | FOR USE WITH CHANNEL NO. | WT. LBS./C |
|---|---|---|
| ***Cast Aluminum*** | | |
| **G 1501 T** | B-900 & G-975 | 34 |
| **G-1871T** | B-901 & G-965 | 45 |
| **G-3001T** | B-902 & G-955 | 66 |

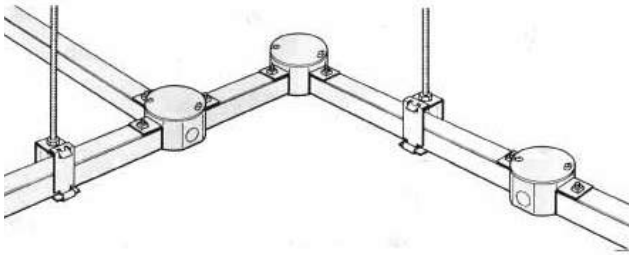
*Galv-Krom® finish.*





# Kindorf® Raceway System Fittings for 1½" x 1½" Channel Systems



The Kindorf® Channel system serves both as a raceway for electrical conductors and a support system for the electrical outlets or tap-offs.

Kindorf® is a complete wiring and support system with fittings and accessories for the design and installation of your electrical system.

A full line of direction change junction boxes are provided for use with the Kindorf® raceway system. These are made up of a standard Steel City® octagon box, box cover and attachment fittings. Assemblies as shown are available complete, or members can be purchased separately to make up a junction.

### Junction Boxes for 1½" x 1½" Raceway Channels — Galv-Krom® Finish

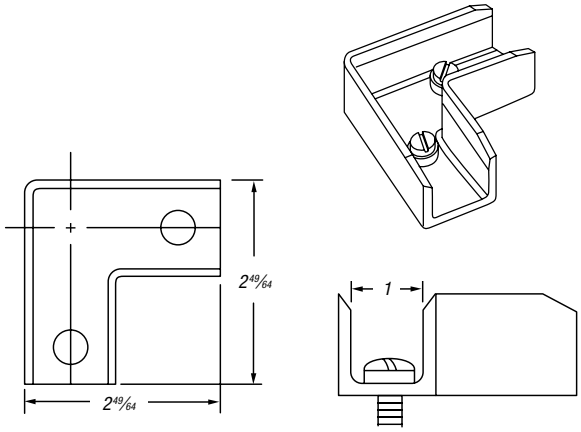
When purchased as an assembly, the octagon box and cover are Galv-Krom® finish to match the channel and end cap and all parts are factory fabricated.

| ITEM | QUANTITY |
|---|---|
| ***The assembly consists of the following components:*** | |
| Octagon Box | 1 |
| Box Cover | 1 |
| Locknuts | 1, 2, 3, or 4 (as required) |
| Nipples | 1, 2, 3, or 4 (as required) |
| End Caps | 1, 2, 3, or 4 (as required) |

### L-Style — G-1502L, G-1872L and G-3002L

| CAT. NO. | FOR USE WITH CHANNEL NO. | WT. LBS./C |
|---|---|---|
| ***Cast Aluminum*** | | |
| **G 1502 L** | B-900 & G-975 | 25 |
| **G-1872L** | B-901 & G-965 | 32 |
| **G-3002L** | B-902 & G-955 | 51 |

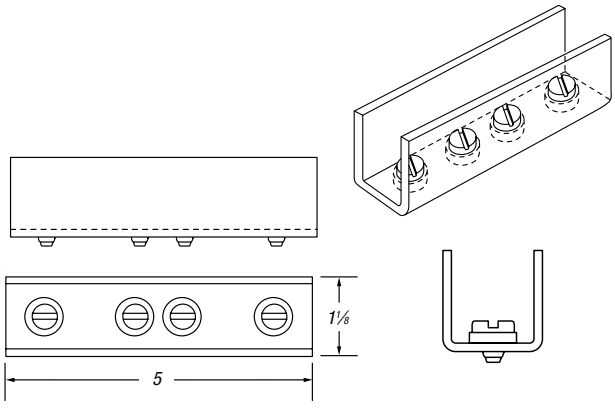
*Galv-Krom® finish.*




### S-Style — G-1503S, G-1873S and G-3003S

| CAT. NO. | FOR USE WITH CHANNEL NO. | WT. LBS./C |
|---|---|---|
| ***Steel*** | | |
| **G 1503 S** | B-900 & G-975 | 21 |
| **G-1873S** | B-901 & G-965 | 25 |
| **G-3003S** | B-902 & G-955 | 36 |

*Galv-Krom® finish.*






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# Surface Raceway and Lighting Support Systems



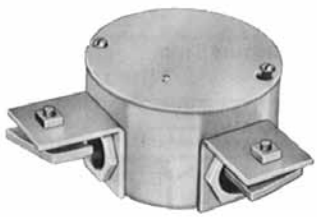
## Raceway Junction Boxes



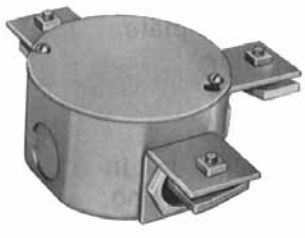
*G 2000*
*Type "E" 100 lbs./C*



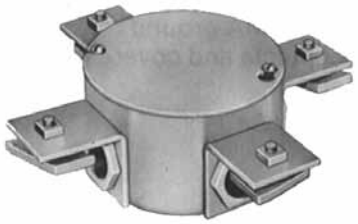
*G 2001*
*Type "C" 121 lbs./C*



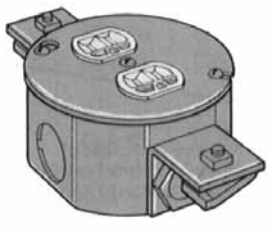
*G 2002*
*Type "L" 90°*



*G 2003*
*Type "T" 140 lbs./C*



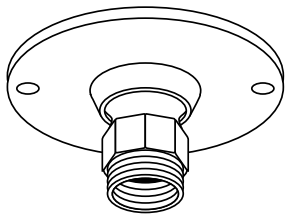
*G 2004*
*Type "X" 150 lbs./C*



*G-2001*
*Junction Box with 5402-LR outlet box cover and field mounted duplex receptacle.*



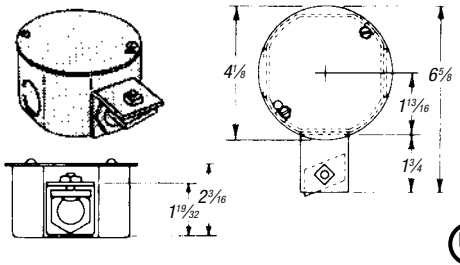
*G-1007*
*36 lbs./C*



*G-1033*
*For ½" or ¾" conduit feed from outlet box 35 lbs./C*

## G-2000 Junction Box

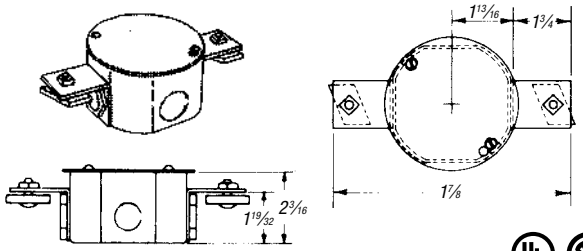
Complete with cover, locknuts, nipples and end caps. Type "E" dead-end junction box for raceway channel. Accepts standard devices and covers for 4" octagon outlet boxes.




| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 2000 | Galv-Krom® Finish | 123 |

## G-2001 Junction Box

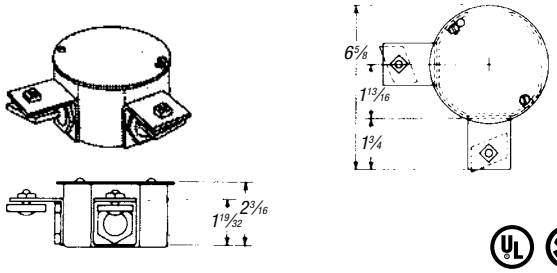
Complete with cover, locknuts, nipples and end caps. Type "C" straight-through junction box for two raceway channels. Accepts standard devices and covers for 4" octagon outlet boxes.




| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 2001 | Galv-Krom® Finish | 147 |

## G-2002 Junction Box

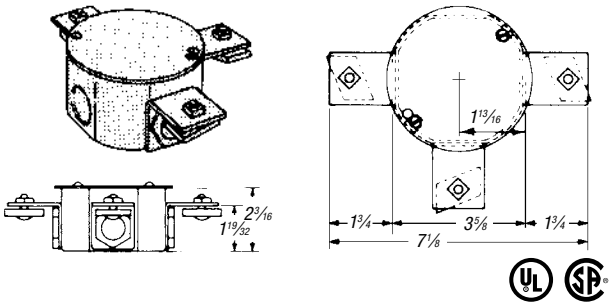
Complete with cover, locknuts, nipples and end caps. Type "L" 90° junction box for two raceway channels. Accepts standard devices and covers for 4" octagon outlet boxes.




| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 2002 | Galv-Krom® Finish | 120 |

## G-2003 Junction Box

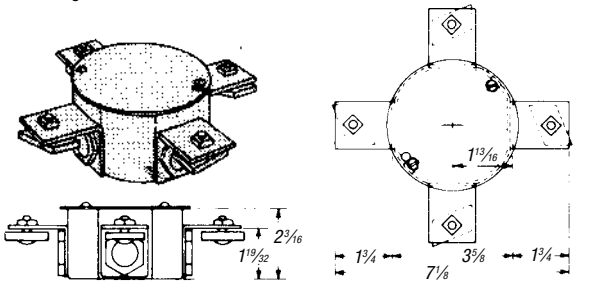
Complete with cover, locknuts, nipples and end caps. Type "T" junction box for three raceway channels. Accepts standard devices and covers for 4" octagon outlet boxes.




| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 2003 | Galv-Krom® Finish | 140 |

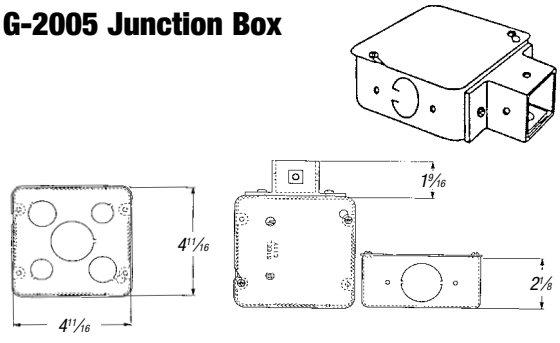
## G-2004 Junction Box

Complete with cover, locknuts, nipples and end caps. Type "X" junction box for four raceway channels. Accepts standard devices and covers for 4" octagon outlet boxes.



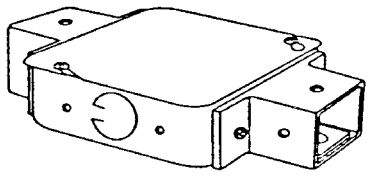

| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G 2004 | Galv-Krom® Finish | 150 |

## G-2005 Junction Box



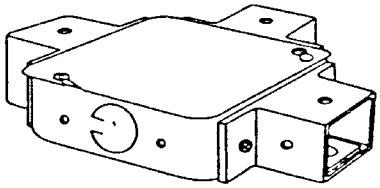

| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G2005 | Galv-Krom® Finish | 189 |

## G-2006 Junction Box



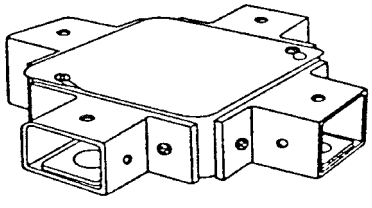
| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G2006 | Galv-Krom® Finish | 225 |

## G-2007 Junction Box



| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G2007 | Galv-Krom® Finish | 261 |

## G-2008 Junction Box



| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| G2008 | Galv-Krom® Finish | 290 |



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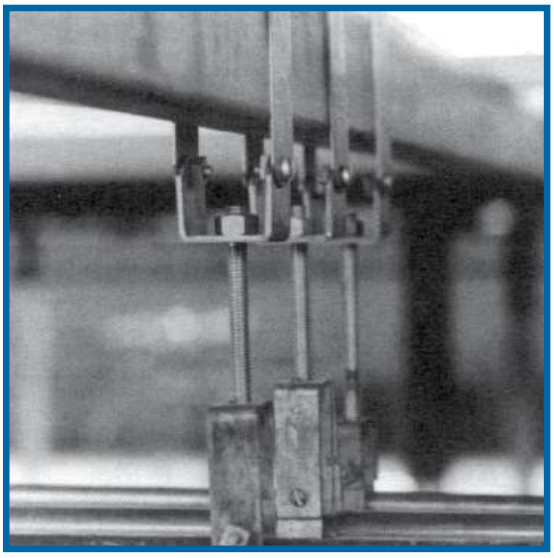
# Fast Installation and Low Maintenance

"Threads" are an integral part of erector systems because nearly everything hangs by or is secured by threaded fasteners. Kindorf® threaded hardware includes continuous rolled-thread hanger rod, and special and standard screws and nuts designed with the necessary holding power to serve the requirements of framing and hanging installations.

It is vital that each thread be fully protected against rust and corrosion because they are usually exposed to corrosive atmospheres. Kindorf® threaded hardware and accessories are completely protected by the same Galv-Krom® finish that protects Kindorf® channel and fittings. Kindorf® extra-quality threads are always:

- Free-running — clean, uniform
- Corrosion resistant — no paint required
- Burr-free — smooth finish

Trouble-free threaded hardware is an investment in fast installation and low maintenance. Free-running threads are a time saving asset on every job — saving fingers and tempers, and eliminating delays that result when threads must be specially treated before use. Threaded rod is packed in tubes to prevent damage during shipment. Kindorf® threaded hardware is produced from high-tensile strength carbon steel with Unified National Coarse (U.N.C.) threads. Galv-Krom® finish is standard.



H-193 Hanger Rod supports conduit from G-962-D hanger. ASTM Class 2.



## H104 Hanger Rod, Continuous Thread — Galv-Krom®

| CAT. NO. | SIZE | WT./LBS. PER 100 PCS. |
|---|---|---|
| H104 1/4X6 | | 73 |
| H104 1/4X10 | ¼"–20 | 124 |
| H104 1/4X12 | | 148 |
| H104 3/8X6 | | 172 |
| H104 3/8X10 | ⅜"–16 | 293 |
| H104 3/8X12 | | 348 |
| H104 1/2X6 | | 313 |
| H104 1/2X10 | ½"–13 | 530 |
| H104 1/2X12 | | 648 |
| H104 5/8X6 | | 510 |
| H104 5/8X10 | ⅝"–11 | 850 |
| H104 5/8X12 | | 1,020 |

*Suffix indicates rod size and length.*



## H104-EG Hanger Rod, Continuous Thread — SilverGalv®

| CAT. NO. | SIZE | WT./LBS. PER 100 PCS. |
|---|---|---|
| H104 1/4X6-EG | | 73 |
| H104 1/4X10-EG | ¼"–20 | 124 |
| H104 1/4X12-EG | | 148 |
| H104 3/8X6-EG | | 172 |
| H104 3/8X10-EG | ⅜"–16 | 293 |
| H104 3/8X12-EG | | 348 |
| H104 1/2X6-EG | | 313 |
| H104 1/2X10-EG | ½"–13 | 530 |
| H104 1/2X12-EG | | 648 |
| H104 5/8X6-EG | | 510 |
| H104 5/8X10-EG | ⅝"–11 | 850 |
| H104 5/8X12-EG | | 1,020 |

*Suffix indicates rod size and length.*

### National Coarse Thread

| SIZE (IN.) | THREADS PER INCH | LBS./ 100 FT. | DESIGN LOAD LBS. |
|---|---|---|---|
| ¼ | 20 | 12.5 | 150 |
| ⅜ | 16 | 29.0 | 610 |
| ½ | 13 | 53.5 | 1,130 |
| ⅝ | 11 | 85.0 | 1,810 |
| ¾ | 10 | 123.0 | 2,710 |
| ⅞ | 9 | 130.0 | 3,770 |
| 1 | 8 | 214.0 | 4,960 |

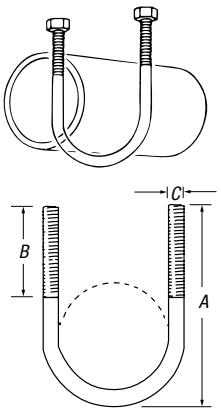
*Grade ASTM A-510.*

# Hardware and Threaded Components

## H115 U-Bolts



"U" bolt to support, anchor or guide pipe lines. Sizes through 4" are furnished with one hex nut per leg in Galv-Krom®. H-286 sizes 5" and above are furnished with two hex nuts per leg in black.

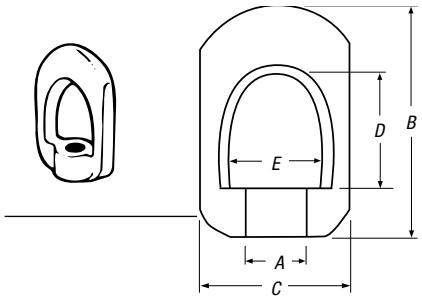



| CAT. NO. AND PIPE SIZE | REC. MAX. LOAD (LBS.) | DIMENSIONS (IN.) A | B | C | WT. IN LBS./C |
|---|---|---|---|---|---|
| H115 1/2 | 1,500 | 2¾ | 1¾ | 5/16 | 13 |
| H115 3/4 | 2,000 | 3 1/16 | 1¾ | 5/16 | 15 |
| H115 1 | 2,500 | 3 5/16 | 1⅞ | 5/16 | 16 |
| H115 1 1/4 | 2,500 | 3½ | 1¾ | 5/16 | 17 |
| H115 1 1/2 | 2,500 | 3¾ | 1¾ | 5/16 | 18 |
| H115 2 | 3,300 | 4 11/16 | 2 1/16 | ⅜ | 32 |
| H115 2 1/2 | 4,000 | 5⅛ | 2 1/16 | ⅜ | 34 |
| H115 3 | 4,000 | 5 11/16 | 2 | ⅜ | 38 |
| H115 3 1/2 | 4,000 | 6 3/16 | 2 | ⅜ | 40 |
| H115 4 | 4,000 | 6 15/16 | 2¼ | ⅜ | 46 |
| H115 5 | 4,000 | 8 5/32 | 2¼ | ½ | 128 |
| H115 6 | 4,000 | 9¾ | 2⅝ | ⅝ | 239 |
| H115 8 | 4,000 | 11¾ | 2⅝ | ⅝ | 283 |

*Complies with Fed. Spec. WW-H-171E and MSS SP-69 Type 24.*

## H-272 Swivel Eye

- H-272 swivel eye has ⅜" or ½" tapped hole for hanger rod applications



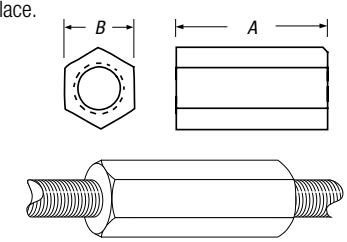

| CAT. NO. | DIMENSIONS (IN.) A | B | C | D | E | LOAD RATING (LBS.) | WT. LBS./C |
|---|---|---|---|---|---|---|---|
| H-272 3/8 | ⅜–16 | 2¾ | 1½ | 1 3/16 | ⅞ | 2,000 | 19 |
| H-272 1/2 | ½–13 | 2¾ | 1½ | 1 3/16 | ⅞ | 2,000 | 19 |

*Safety factor of 3.*

## H119 Steel Rod Coupling

For coupling lengths of H-193 hanger rod. Right-hand threaded. Threads tapered to lock rods in place.





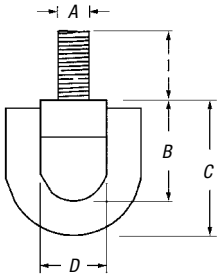

| CAT. NO. | THREADS | DIMENSIONS (IN.) A | B | LOAD RATING (LBS.) | WT. LBS./C |
|---|---|---|---|---|---|
| H119 1/4 | ¼–20 | ⅞ | ⅜ | 240 | 2 |
| H119 3/8 | ⅜–16 | 1½ | ½ | 610 | 4 |
| H119 1/2 | ½–13 | 1¼ | ⅝ | 1,130 | 5 |
| H119 5/8 | ⅝–11 | 1⅞ | 13/16 | 1,810 | 10 |

*Galv-Krom® finish.*

## E120, E130 Eyelet with ½" or ⅜" Stud

For bolting to a supporting member to furnish suspension for rope, chain or cable.






| CAT. NO. | DIMENSIONS (IN.) A | B | C | D | LOAD RATING (LBS.) | WT. LBS./C |
|---|---|---|---|---|---|---|
| E120 3/8 | ⅜–16 | 1⅜ | 1¾ | ½ | 1,000 | 23 |
| E130 1/2 | ½–13 | 1½ | 2 | ¾ | 1,800 | 28 |

*Safety factor of 3.*

*Galv-Krom® finish.*

## H-120 Saddle-Type Washer

- For rigid attachment of rod to channel
- For use with either ⅜" or ½" hanger rod



| CAT. NO. | WT. LBS./C |
|---|---|
| H-120 | 7 |

*Standard finish: Galv-Krom® unless otherwise specified.*



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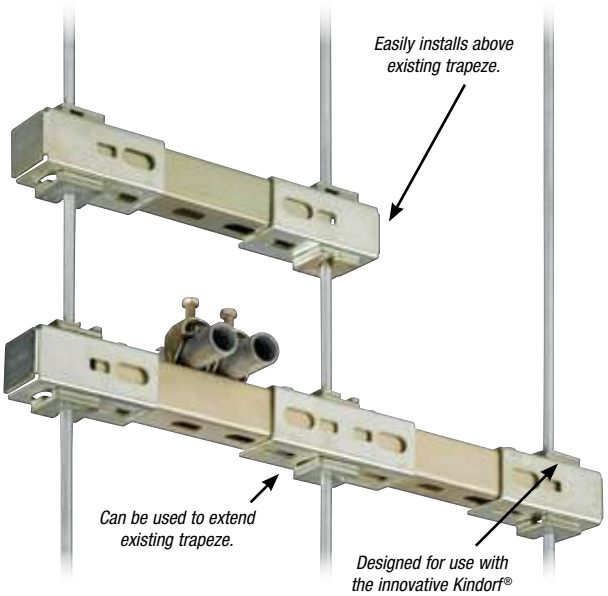
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# Handle Retrofit Trapeze Applications with Ease!

## Trap-Eze™ Connector

The innovative Kindorf® Trap-Eze™ Connector changes a time-consuming retrofit trapeze application into a streamlined process. Using a Kindorf® Trapnut® Strut Fastener, the new Trap-Eze™ Connector can be easily installed above or to the side of an existing assembly, eliminating the need to disassemble and reassemble the trapeze. It is designed for use with shorter strut lengths that can vary in length by as much as an inch, so the strut can be rough cut versus labor-intense precision cuts.

- Easily installs above or to the side of an existing assembly, eliminating the need to disassemble and reassemble the trapeze
- Connectors can be reused upon disassembly of a trapeze
- Designed for either ⅜" and ½" threaded rod
- Designed for use with the innovative Kindorf® Trapnut® Strut Fastener, which can take up to 43% less time than standard nuts and washers on retrofit trapeze applications
- View window provides safety zone for strut length




| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| ***For 1½" Kindorf® Channels*** | | |
| **B998** | Trap-Eze™ End Connector Gold-Galv | 20 |
| **B999** | Trap-Eze™ Mid Connector Gold-Galv | 10 |
| **B998EG** | Trap-Eze™ End Connector EG | 20 |
| **B999EG** | Trap-Eze™ Mid Connector EG | 10 |
| ***For 1⅝" Strut Channels*** | | |
| **AB221** | Trap-Eze™ End Connector Gold-Galv | 20 |
| **AB222** | Trap-Eze™ Mid Connector Gold-Galv | 10 |
| **AB221EG** | Trap-Eze™ End Connector EG | 20 |
| **AB222EG** | Trap-Eze™ Mid Connector EG | 10 |




*View window provides strut length safety zone for rough cuts versus precision cuts.*



*Unique safety slot maintains bracket position on threaded rod and prevents disengagement of the trapeze system.*

## Trapnut® Strut Fastener





*H 122 3/8 Trapnut® Strut Fastener Galv-Krom®*

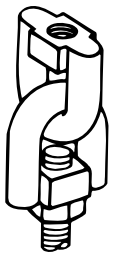


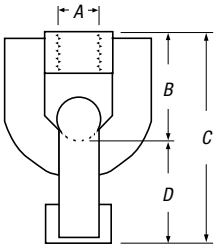
*H 122 3/8 EG Trapnut® Strut Fastener SilverGalv®*

| CAT. NO. | DESCRIPTION | SIZE (IN.) | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|---|
| **H 122 1/4** | ¼" Galv-Krom® | ¼ | 150 | 50 |
| **H 122 3/8** | ⅜" Galv-Krom® | ⅜ | 590 | 50 |
| **H 122 1/2** | ½" Galv-Krom® | ½ | 1,080 | 50 |
| **H 122 1/4 EG** | ¼" SilverGalv® | ¼ | 150 | 50 |
| **H 122 3/8 EG** | ⅜" SilverGalv® | ⅜ | 590 | 50 |
| **H 122 1/2 EG** | ½" SilverGalv® | ½ | 1,080 | 50 |
| **H 122 1/4 SS6** | ¼" Type 316 Stainless Steel | ¼ | 150 | 50 |
| **H 122 3/8 SS6** | ⅜" Type 316 Stainless Steel | ⅜ | 590 | 50 |
| **H 122 1/2 SS6** | ½" Type 316 Stainless Steel | ½ | 1,080 | 50 |

## E122 Swivel Joint

Permits hanger rod to swing freely in any direction.





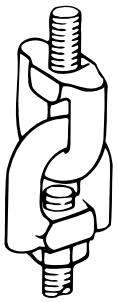

| CAT. NO. | DIMENSIONS (IN.) A | B | C | LOAD RATING | WT. LBS./C |
|---|---|---|---|---|---|
| E122 3/8 | ⅜–16 | 1⅜ | 2¾ | 1,000 | 28 |
| E122 1/2 | ½–13 | 1½ | 3 | 1,800 | 48 |

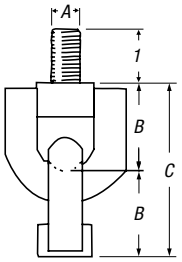
*Safety factor of 3.*

*Galv-Krom® finish.*

## E131 Swivel Joint with Stud

Same as H-260 but with a ⅜" or ½" stud on one end.





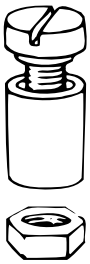

| CAT. NO. | DIMENSIONS (IN.) A | B | C | LOAD RATING | WT. LBS./C |
|---|---|---|---|---|---|
| E131 3/8 | ⅜–16 | 1⅜ | 2¾ | 1,000 | 25 |
| E131 1/2 | ½–13 | 1½ | 3 | 1,800 | 52 |

*Safety factor of 3.*

*Galv-Krom® finish.*

## H-134-S Spacer Assembly

Used for attaching fixture to channel with a uniform 1" clearance between fixture and supporting channel. Assembly includes a 1" spacer, a ⅝"–18 x 1½" bolt and jam nut, all galvanized.



| CAT. NO. | WT. LBS./C |
|---|---|
| H-134-S | 21 |

*Approved for G.S.A. installations.*

## E142 Hex Head Cap Screw — Less Nut



| CAT. NO. | SIZES (IN.) | WT. LBS./C |
|---|---|---|
| E142 1/2 15/16 | ½–13 x ¾ | 7.0 |
| E142 1/2 15/16 | ½–13 x 1 | 9.0 |
| E142 1/2 15/16 | ½–13 x 1 | 9.0 |
| E142 1/2 1 1/4 | ½–13 x 1¼ | 9.0 |
| E142 1/2 1 1/2 | ½–13 x 1½ | 10.0 |
| E142 1/2 2 | ½–13 x 1¾ | 13.0 |
| E142 1/2 2 | ½–13 x 2 | 14.0 |
| E142 1/2 2 1/4 | ½–13 x 2¼ | 16.0 |
| E142 1/2 2 1/2 | ½–13 x 2½ | 16.0 |
| E142 1/2 3 | ½–13 x 3 | 20.0 |
| E142 1/2 4 | ½–13 x 4 | 25.0 |
| E142 3/8 3/4 | ⅜–16 x ¾ | 3.0 |
| E142 3/8 1 | ⅜–16 x 1 | 4.0 |
| E142 3/8 1 1/4 | ⅜–13 x 1 61/64 | 4.0 |
| E142 3/8 1 1/2 | ⅜–16 x 1½ | 5.0 |
| E142 3/8 2 1/4 | ⅜–16 x 1¾ | 6.0 |
| E142 3/8 2 1/4 | ⅜–16 x 2¼ | 7.0 |
| E142 3/8 2 1/4 | ⅜–16 x 2¼ | 7.0 |
| E142 1/4 1 | ¼ x ¾ | 1.0 |
| E142 1/4 1 | ¼ x 1 | 1.0 |
| E142 1/4 1 1/4 | ¼ x 1¼ | 1.5 |
| E142 1/4 1 1/2 | ¼ x 1½ | 2.0 |

*Standard finish: Galv-Krom® unless otherwise specified.*



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# Hardware and Threaded Components



## E145 Hex Nut



| CAT. NO. | SIZES (IN.) | WT. LBS./C |
|---|---|---|
| E145 1/4 | ¼–20 | 1.2 |
| E145 5/16 | 5⁄16–18 | 2.0 |
| E145 3/8 | ⅜–16 | 3.2 |
| E145 1/2 | ½–13 | 5.0 |
| E145 3/8 | ⅝–11 | 9.0 |

*Standard finish: Galv-Krom® unless otherwise specified.*

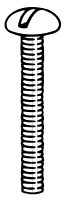
## E146 Square Nut



| CAT. NO. | SIZES (IN.) | WT. LBS./C |
|---|---|---|
| E146 1/4 | ¼–20 | 1.00 |
| E146 5/16 | 5⁄16–18 | 2.40 |
| E146 3/8 | ⅜–16 | 2.37 |
| E146 1/2 | ½–13 | 6.00 |
| E146 5/8 | ⅝–11 | 11.00 |

*Standard finish: Galv-Krom® unless otherwise specified.*

## 54, E149 Round Head Machine Screw — Less Nut



| CAT. NO. | SIZES (IN.) | WT. LBS./C |
|---|---|---|
| 54 571P | ¼–20 x ½ | 1.00 |
| 54-572-P | ¼–20 x ¾ | 1.25 |
| 54-574 | ¼–20 x 1¼ | 1.76 |
| 54-576 | ¼–20 x 2 | 2.54 |
| E149 3/8 1 1/4 | ⅜–16 x ¾ | 3.45 |

*Standard finish: Galv-Krom® unless otherwise specified.*

## E147 Flat Steel Washer



| CAT. NO. | SIZES (IN.) | WT. LBS./C |
|---|---|---|
| E147 1/4 | ¼ | .67 |
| E147 5/16 | 5⁄16 | 1.20 |
| E147 3/8 | ⅜ | 2.00 |
| E147 1/2 | ½ | 3.85 |
| E147 5/8 | ⅝ | 7.70 |
| E147 3/4 | ¾ | 9.00 |

*Standard finish: Galv-Krom® unless otherwise specified.*

## E148 Lock Washer

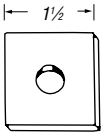


| CAT. NO. | SIZES (IN.) | WT. LBS./C |
|---|---|---|
| E148 1/4 | ¼ | .259 |
| E148 5/16 | 5⁄16 | .550 |
| E148 3/8 | ⅜ | .630 |
| E148 1/2 | ½ | 1.436 |
| E148 5/8 | ⅝ | 2.587 |
| E148 3/4 | ¾ | 4.293 |

*Standard finish: Galv-Krom® unless otherwise specified.*

## AB241 Square Washer



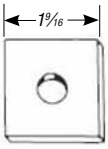



| CAT. NO. | DIMENSIONS (IN.) SIZE | DIMENSIONS (IN.) THICKNESS | WT. LBS./C |
|---|---|---|---|
| AB241 1/4 | ¼ | ⅛ | 8.10 |
| AB241 5/16 | 5⁄16 | ⅛ | 8.00 |
| AB241 3/8 | ⅜ | 3⁄16 | 11.50 |
| AB241 1/2 | ½ | ¼ | 14.36 |
| AB241 5/8 | ⅝ | ¼ | 13.50 |
| AB241 3/4 | ¾ | ¼ | 12.50 |
| AB241 7/8 | ⅞ | ¼ | 13.00 |

*Standard finish: Galv-Krom® unless otherwise specified.*

## Located Square Washers





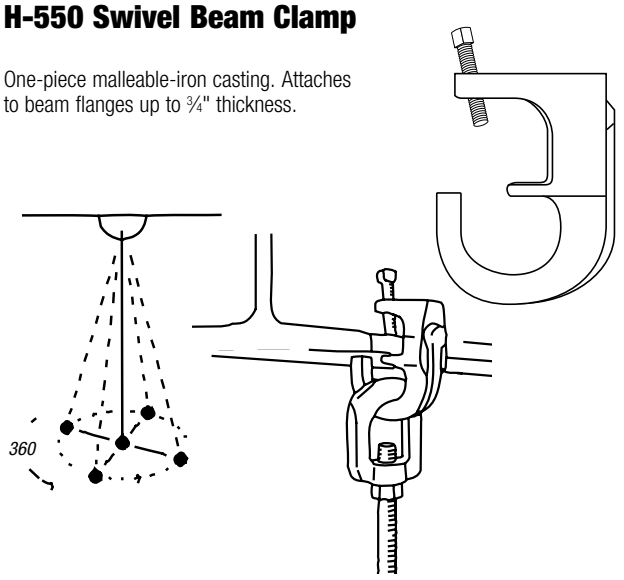

| CAT. NO. | BOLT SIZE (IN.) | STD. CTN. |
|---|---|---|
| AB-241L-1/4 | ¼ | 100 |
| AB-241L-5/16 | 5⁄16 | 100 |
| AB-241L-3/8 | ⅜ | 100 |
| AB-241L-1/2 | ½ | 100 |
| AB-241L-5/8 | ⅝ | 100 |

*GoldGalv® is standard finish.*

*Add "EG" suffix for SilverGalv®.*

## H-550 Swivel Beam Clamp

One-piece malleable-iron casting. Attaches to beam flanges up to ¾" thickness.




| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| H-550 | Max. load rating 500 lbs. with a safety factor of 3. | 33 |

*Galv-Krom® finish.*

# Fast, Precise Installation Method.

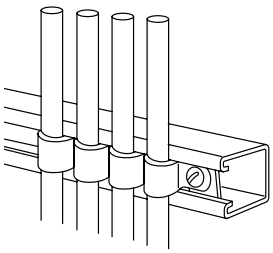
## Kindorf® J-800 System

Designed originally to eliminate costly and time-consuming methods of installing cables aboard ships, the Kindorf® J-800 series of straps, hangers and brackets has found ever-widening applications by mechanical and electrical contractors in general construction. The J-800 system has proven to be a work-saver when used to install tubing or cable. Tubing and cable of various construction and fabrication can be racked efficiently with built-in provisions for making additions or changes at a later date. They can be secured in all combinations and sequences of sizes. A variety of hangers and brackets secures multiple runs as well as single branch take-offs.

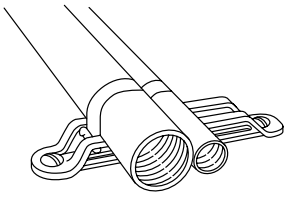
Installation of J-800 straps on Kindorf® supports is simple, requiring only a screwdriver or small wrench. Each run is gripped individually on a hanger and all runs are secured by tightening a single locking device. Loosening the locking device permits fast access to the runs, making it easy to add, remove or adjust them at any time.

J-800 installations have withstood the severe conditions of service at sea for many years. In countless installations, they have proven their ability to withstand the effects of salt air, moisture, shock and vibration.

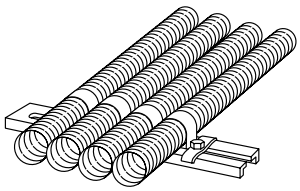
J-800 racking is well known for its fast, yet precise, installation method. A proven method that results in labor economy and neat, workman-like installation.



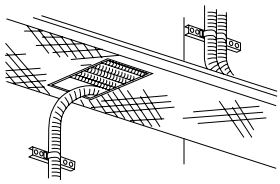
*Copper Tubing*



*Shipboard Cables*



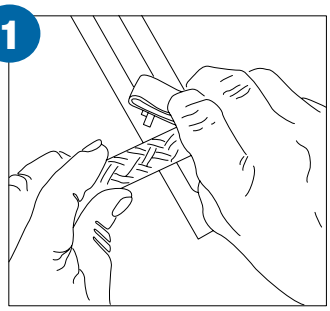
*Flexible Tubing*



*Armored Cable (Take-off from Cable Tray)*

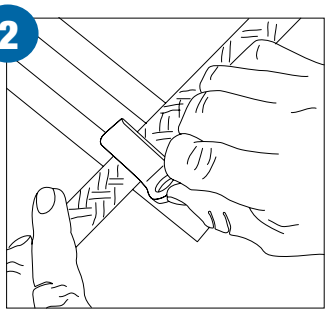
## Installation Steps

1



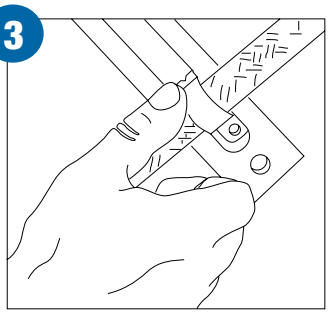
Insert pin of strap in slot of hanger.

2



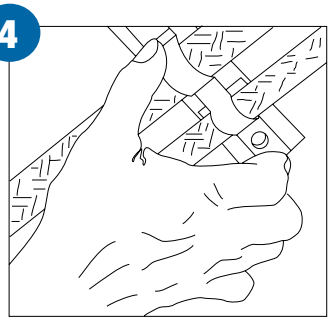
Close Kindorf® cable strap down over cable.

3



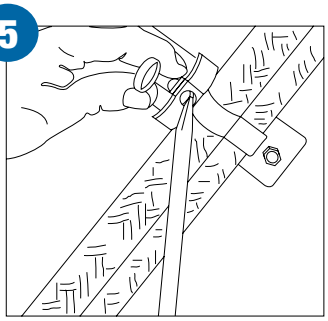
Push strap and cable to end of hanger slot so tongue of strap hooks below slot.

4



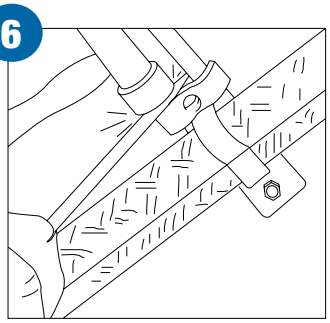
Apply second cable strap, hooking strap tongue under pin of first strap.

5



Apply locking device and tighten screw moderately.

6



Drive locking device tight against cable strap. Tighten locking device screw.



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**Technical Services**
Tel: 888.862.3289

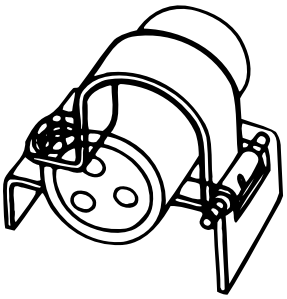
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# J-800 Interlocking Straps

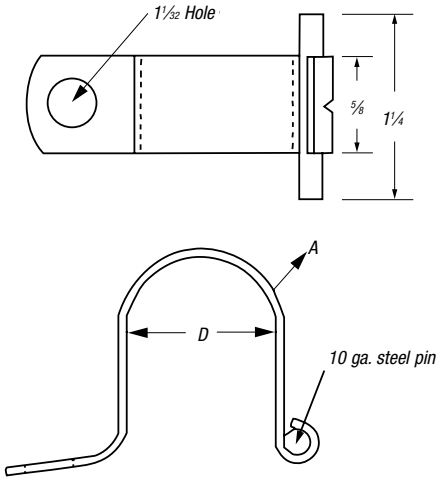
One J-800 strap of the proper diameter is used to secure each run. All straps have a 1¼" pin. In multiple runs the pin is simply twist inserted into the supporting Kindorf® hanger, bracket or channel slot then the strap is closed over the cable or tube to lock the strap tongue under the pin of the adjacent strap.

The same procedure is used for single runs, except the strap tongue is secured directly to the hanger. When all multiple runs have been assembled, they are secured by a single locking device.

J-800 straps can be installed along the continuous slot of any Kindorf® channel. This increases their versatility and extends their possible applications.



*Straps are steel and have Galv-Krom® finish.*

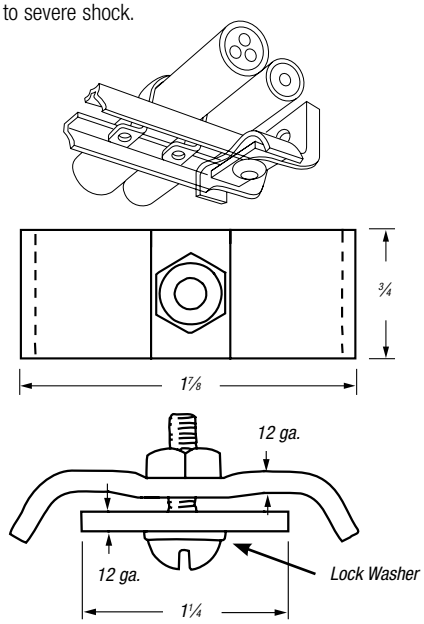



| CAT. NO. & SIZE | STRAP SIZE | A GAUGE | DIMENSIONS (IN.) D MAX. | WT. LBS./C | USE IN NEW KINDORF® CHANNEL | USE IN OLD KINDORF® CHANNEL | USE IN J SERIES MOUNTINGS |
|---|---|---|---|---|---|---|---|
| **J 800 8** | 8 | 18 | .2500 | 2.50 | — | .250 | .250 |
| **J-800-10** | 10 | 18 | .3124 | 2.60 | — | .313 | .313 |
| **J-800-12** | 12 | 18 | .3750 | 2.75 | .250 | .375 | .375 |
| **J-800-14** | 14 | 18 | .4375 | 2.90 | .313 | .438 | .438 |
| **J-800-16** | 16 | 18 | .5000 | 2.75 | .375 | .500 | .500 |
| **J-800-18** | 18 | 18 | .5625 | 2.90 | .438 | .563 | .563 |
| **J-800-20** | 20 | 18 | .6250 | 3.35 | .500 | .625 | .625 |
| **J-800-22** | 22 | 18 | .6875 | 3.50 | .563 | .688 | .688 |
| **J-800-24** | 24 | 18 | .7500 | 3.65 | .625 | .750 | .750 |
| **J-800-26** | 26 | 18 | .8125 | 3.80 | .688 | .813 | .813 |
| **J-800-28** | 28 | 18 | .8750 | 3.95 | .750 | .875 | .875 |
| **J-800-30** | 30 | 18 | .9375 | 4.10 | .813 | .938 | .938 |
| **J-800-32** | 32 | 18 | 1.0000 | 4.25 | .875 | 1.000 | 1.000 |
| **J-800-34** | 34 | 18 | 1.0625 | 4.40 | .938 | 1.063 | 1.063 |
| **J-800-36** | 36 | 18 | 1.1250 | 4.55 | 1.000 | 1.125 | 1.125 |
| **J-800-38** | 38 | 18 | 1.1875 | 4.70 | 1.063 | 1.188 | 1.188 |
| **J-800-40** | 40 | 18 | 1.2500 | 4.85 | 1.125 | 1.250 | 1.250 |
| **J-800-42** | 42 | 18 | 1.3125 | 5.00 | 1.188 | 1.313 | 1.313 |
| **J-800-44** | 44 | 18 | 1.3750 | 5.15 | 1.250 | 1.375 | 1.375 |
| **J-800-46** | 46 | 18 | 1.4375 | 5.30 | 1.313 | 1.438 | 1.438 |
| **J-800-48** | 48 | 18 | 1.5000 | 5.45 | 1.375 | 1.500 | 1.500 |
| **J-800-50** | 50 | 16 | 1.5625 | 6.38 | 1.438 | 1.563 | 1.563 |
| **J-800-52** | 52 | 16 | 1.6250 | 6.55 | 1.500 | 1.625 | 1.625 |
| **J-800-54** | 54 | 16 | 1.6875 | 6.73 | 1.563 | 1.688 | 1.688 |
| **J-800-56** | 56 | 16 | 1.7500 | 6.90 | 1.625 | 1.750 | 1.750 |
| **J-800-58** | 58 | 16 | 1.8125 | 7.08 | 1.688 | 1.813 | 1.813 |
| **J-800-60** | 60 | 16 | 1.8750 | 7.25 | 1.750 | 1.875 | 1.875 |
| **J-800-62** | 62 | 16 | 1.9375 | 7.43 | 1.813 | 1.938 | 1.938 |
| **J-800-64** | 64 | 16 | 2.0000 | 7.6 | 1.875 | 2.000 | 2.000 |
| **J-800-68** | 68 | 16 | 2.1250 | 7.95 | 1.938 | 2.063 | 2.063 |
| **J-800-72** | 72 | 16 | 2.2500 | 8.30 | 2.000 | 2.250 | 2.250 |
| **J-800-76** | 76 | 16 | 2.3750 | 8.65 | 2.125 | 2.375 | 2.375 |
| **J-800-80** | 80 | 16 | 2.5000 | 9.00 | 2.250 | 2.500 | 2.500 |
| **J-800-84** | 84 | 16 | 2.6250 | 9.35 | 2.375 | 2.625 | 2.625 |

*Separate strap sizes rack ¼" through 2⅝" dia. rounds in ⅛" increments.*

## J-850 Locking Device

Secures single or multiple interlocked assemblies on bar hangers, mounting brackets and continuous slot channel. For installations not subject to severe shock.

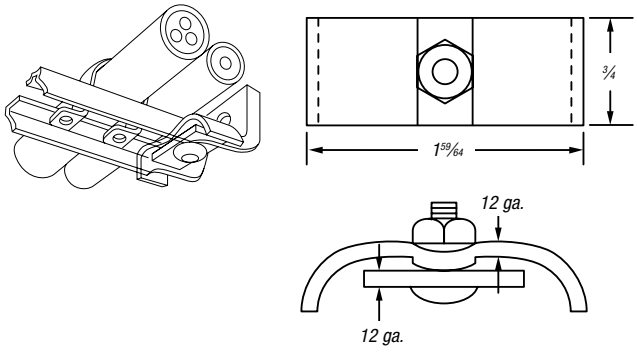



| CAT. NO. | DESCRIPTION |
|---|---|
| J 850 | Steel, Galv-Krom® Finish, 11 lbs./C. |

*Includes ¼" screw, nut and lock washer.*

## J-851 Locking Device

Secures single or multiple interlocked assemblies on bar hangers, mounting brackets and continuous slot channels. Similar to J-850 except stud replaces screw for easier assembly.

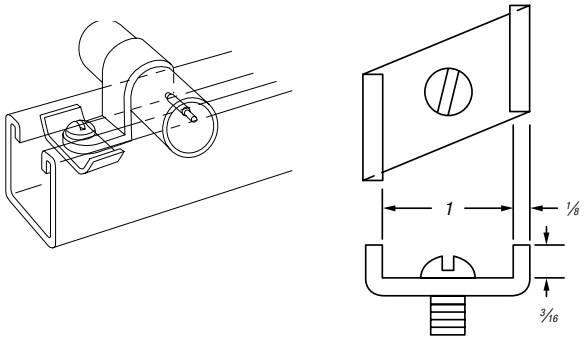



| CAT. NO. | DESCRIPTION |
|---|---|
| J 851 | Steel, Galv-Krom® Finish, 11 lbs./C. |

*Includes ¼" screw, nut and lock washer.*

## J-852 Locking Device

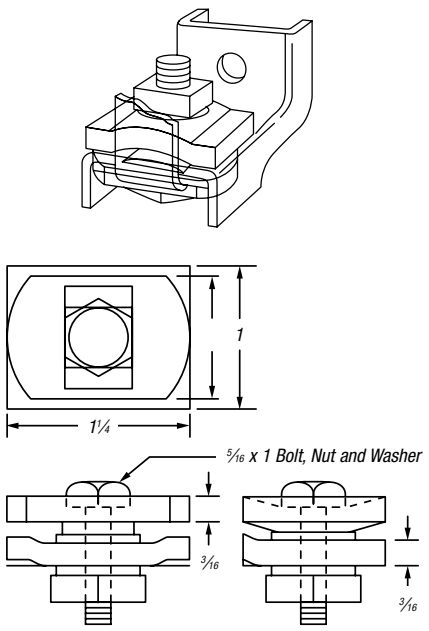
Secures single or multiple interlocked assemblies on bar hangers, mounting brackets and continuous slot channels. Designed for use with B-900 Kindorf channels.




| CAT. NO. | DESCRIPTION |
|---|---|
| J 852 | Steel, Galv-Krom® Finish, 11 lbs./C. |

## J-855 Locking Device — Heavy-Duty

For use with channel-type hangers in installations subject to extreme shock.




| CAT. NO. | DESCRIPTION |
|---|---|
| J 855 | Steel, Galv-Krom® Finish, 11 lbs./C. |

*Includes 5/16" bolt, nut and washer.*



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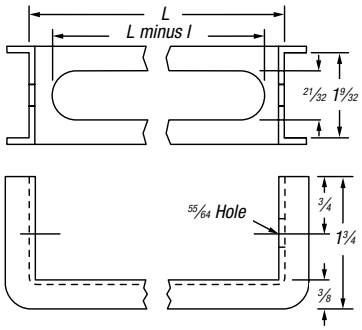
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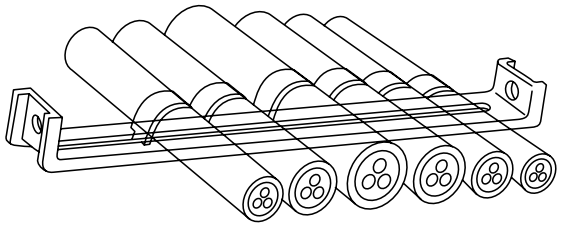
# Cable and Mounting Systems



## J-860 Mounting Brackets

U-style channel, 12-ga. steel, with Galv-Krom® finish, ⅜" turned edge. Three sizes.

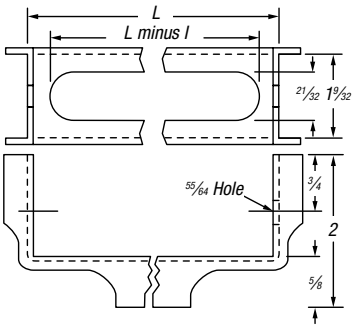


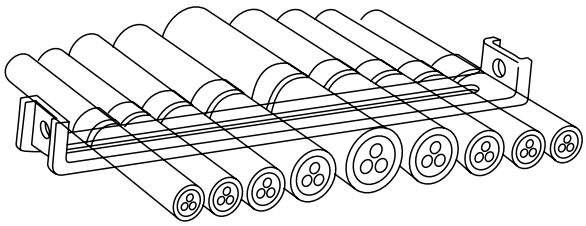



| CAT. NO. | DIMENSIONS L (IN.) | WT. LBS./C |
|---|---|---|
| J 860 6 | 6 | 42 |
| J-860-9 | 9 | 48 |
| J-860-12 | 12 | 59 |

## J-861 Mounting Brackets

U-style channel, 12-ga. steel, with Galv-Krom® finish, ⅝" turned edge. Six sizes.

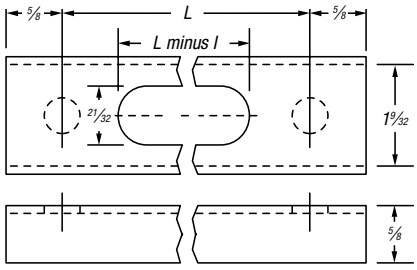


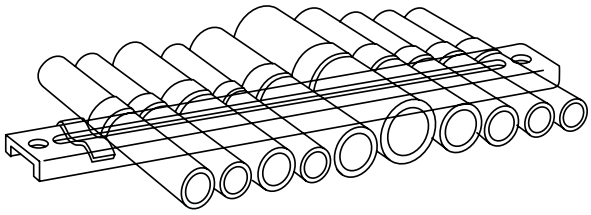



| CAT. NO. | DIMENSIONS L (IN.) | WT. LBS./C |
|---|---|---|
| J 861 10 | 10 | 64 |
| J-861-12 | 12 | 73 |
| J-861-14 | 14 | 86 |
| J-861-15 | 15 | 89 |
| J-861-16 | 16 | 96 |
| J-861-18 | 18 | 100 |

## J-863 Mounting Brackets

Straight, heavy-duty channel. 12-ga. steel, with Galv-Krom® finish. Five sizes.



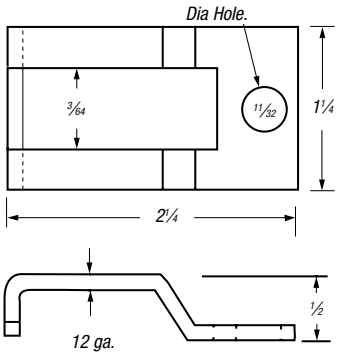



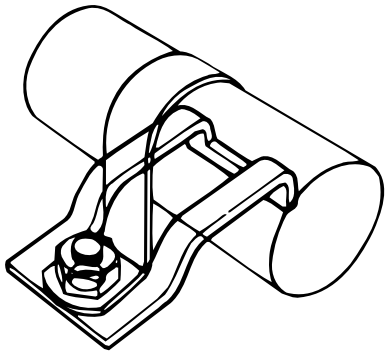
| CAT. NO. | DIMENSIONS L (IN.) | WT. LBS./C |
|---|---|---|
| J 863 6 | 6 | 42 |
| J-863-9 | 9 | 57 |
| J-863-12 | 12 | 73 |
| J-863-15 | 15 | 85 |
| J-863-18 | 18 | 106 |

# Cable and Mounting Systems

## J-865 Bar Hanger

Supports one cable or tube up to 1 1/16" O.D. Only one stud or screw necessary for mounting.

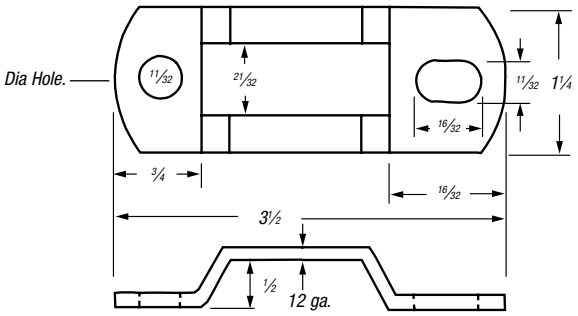


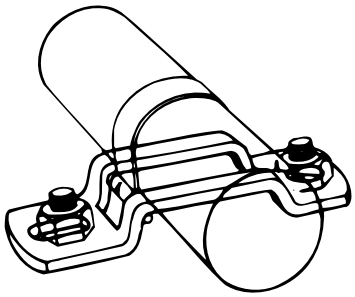



| CAT. NO. | DESCRIPTION |
|---|---|
| J 865 | Steel, Galv-Krom® Finish, 6.7 lbs./C. |

## J-866 Bar Hanger

Supports one large or two small cables or tubes up to a total of 15/16" O.D.

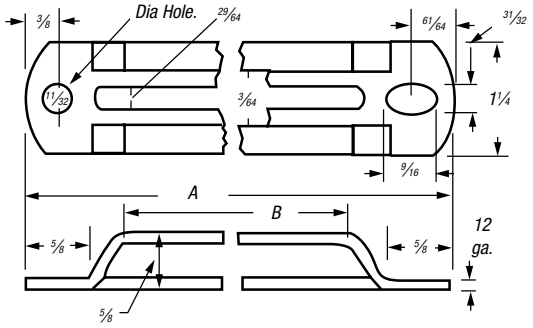


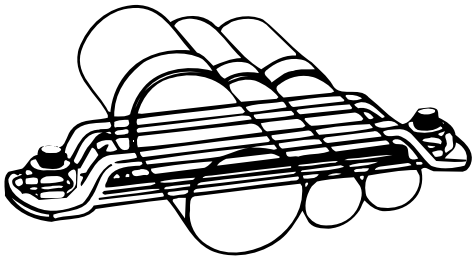



| CAT. NO. | DESCRIPTION |
|---|---|
| J 866 | Steel, Galv-Krom® Finish, 9 lbs./C. |

## J-867 Bar Hanger

- Cable or tube assembly locks in place with one short 1/4" screw and nut
- Use two studs, welding pads or bolts to mount



| CAT. NO. | DIMENSIONS (IN.) A | DIMENSIONS (IN.) B | WT. LBS./C |
|---|---|---|---|
| J 867 1 | 5 1/8 | 2 7/8 | 15 |
| J-867-2 | 7 1/8 | 4 7/8 | 20 |
| J-867-3 | 9 1/8 | 6 7/8 | 27 |

*Steel, Galv-Krom® finish.*



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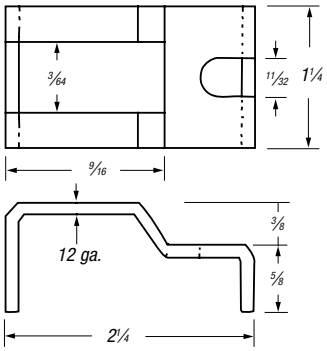
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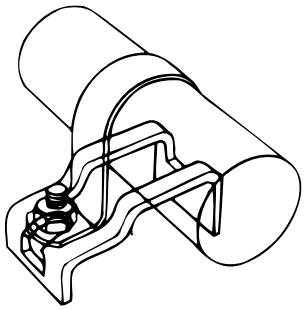
# Cable and Mounting Systems



## J-868 Bar Hanger

Supports one cable or tube up to 1 1/16" O.D. Strap fastens to hanger by short machine screw and nut.



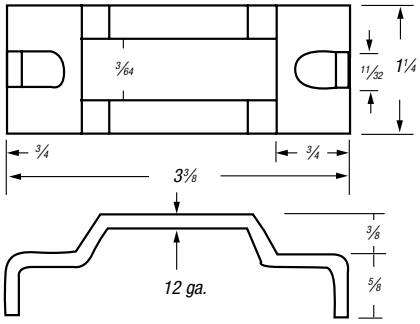



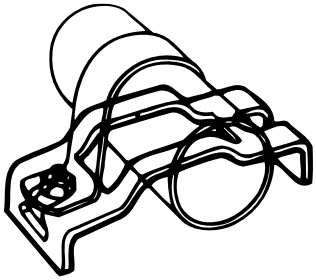
| CAT. NO. | DESCRIPTION |
|---|---|
| J 868 | Steel, Galv-Krom® Finish, 8.3 lbs./C. |

*Use one stud or weld to mount.*

## J-869 Bar Hanger

- Supports one large or two small cables or tubes up to a total of 15/16" O.D.
- Both ends of hanger have nut-engaging slot

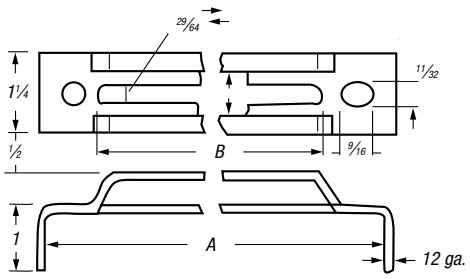


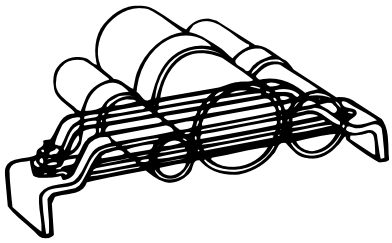



| CAT. NO. | DESCRIPTION |
|---|---|
| J 869 | Steel, Galv-Krom® Finish, 11.2 lbs./C. |

## J-870 Bar Hanger

- Supports cable or tube assembly, locked in place with one short 1/4" screw and nut
- Mount by welding



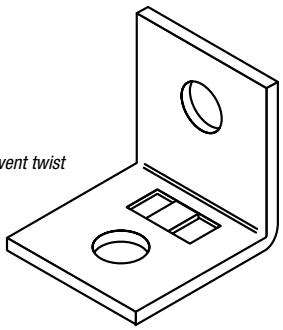



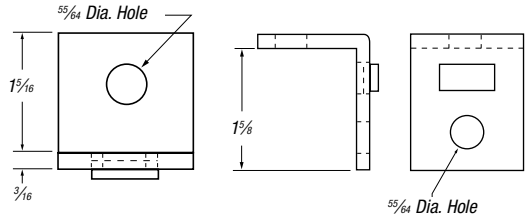
| CAT. NO. & SIZE | DIMENSIONS (IN.) A | DIMENSIONS (IN.) B | WT. LBS./C |
|---|---|---|---|
| J 870 1 | 5 1/8 | 3 7/16 | 22.5 |
| J-870-2 | 7 1/8 | 5 7/16 | 28.0 |
| J-870-3 | 9 1/8 | 7 7/16 | 33.3 |

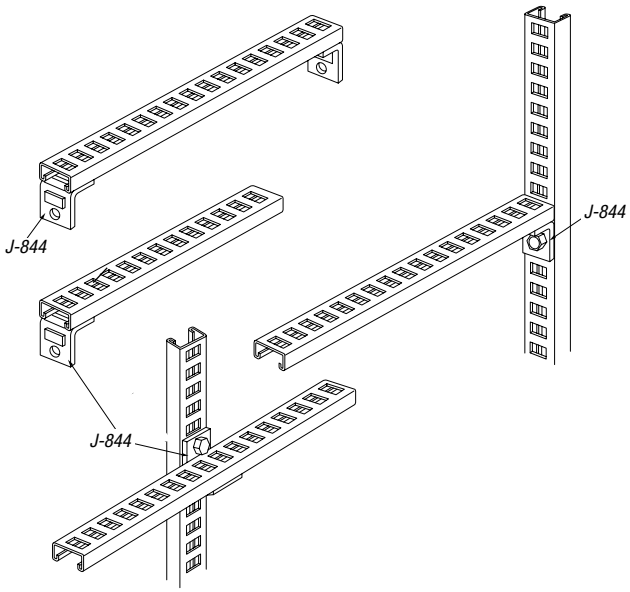
*Steel, Galv-Krom® finish.*

# Angle Connector Provides "On-the-Job" Versatility for Cable Racking and Mounting.

## J-844 Channel Angle Connector



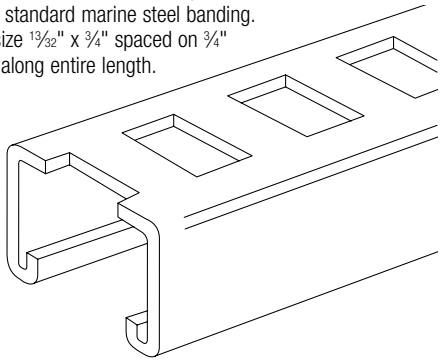



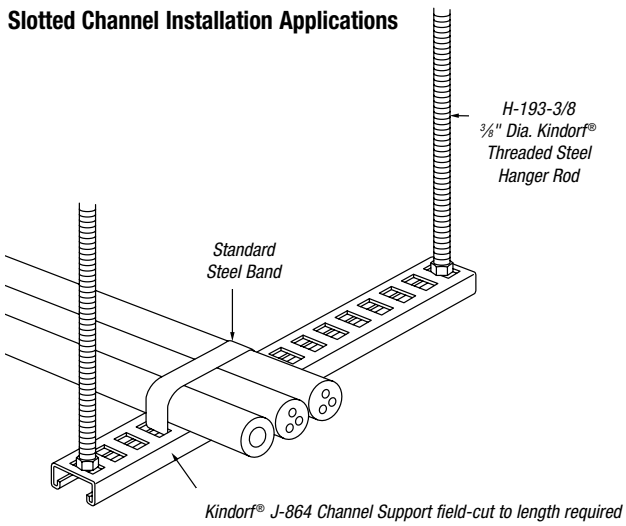

| CAT. NO. | DESCRIPTION |
|---|---|
| J 844 | Galv-Krom® Finish |

## J-864 Slotted Channel

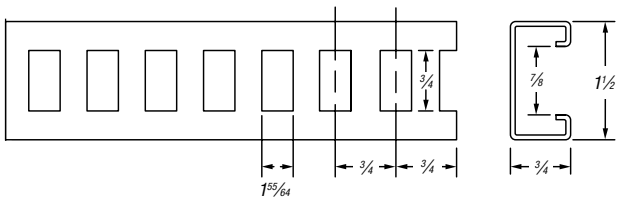
10' length slotted channel provides "cut to length" versatility. For use with standard marine steel banding. Uniformly spaced slot size 13/32" x 3/4" spaced on 3/4" centers. Cut anywhere along entire length.



**Slotted Channel Installation Applications**




*Kindorf® J-864 Channel Support field-cut to length required*




| CAT. NO. | DESCRIPTION | WT. LBS./C |
|---|---|---|
| ***Mount, Band or Support at any Slot*** | | |
| J 864 | 10' Length 3/4" Deep Kindorf® Slotted Channel | 65 |

*Galv-Krom® finish.*



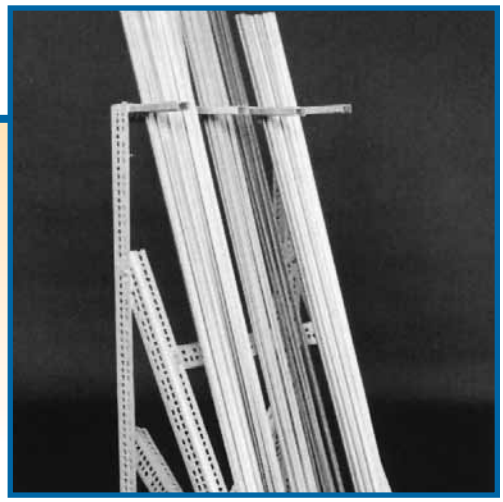
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# With Right Angle, you get Flexibility — Simplicity — Economy!



## Create the support framing you need.

Right Angle is manufactured from commercial-quality steel in three different sizes. The small sizes are 14-ga. steel, the larger size is 12-ga. steel. With this offering, an endless variety of metal framing requirements can be met, from lightweight supporting needs to larger shelving needs such as inventory storage.

One of the legs on all sizes is 1⅝" wide, while the other is either 1⅝", 2⅜" or 3⅛" long. Depending on the frame requirements, a single size can be utilized throughout, or the sizes can be interchanged to get the most efficient usage from the material.

This book will serve as a guide to plan and build your structure.

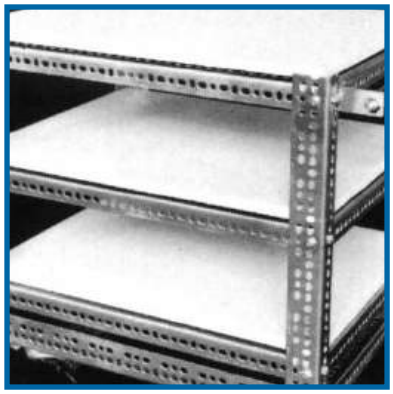
**Installation time is reduced — inventory space is minimal.**

Scribe marks are placed every ¾" which saves planning, layout and cutting time and ensures accuracy. The exclusive slot and hole pattern, repeated every 3", is scientifically designed for ease of assembly and rigidity. No welding is necessary, no holes to drill. A 9⁄16" wrench is the only tool required for assembly. The proper nuts and bolts are included with the material to ensure fast and easy erection.

Right Angle Metal Framing is packaged in 10' and 12' lengths to minimize cut offs and ensure maximum use of material.

120' (10 x 12' lengths) of Right Angle takes up the same amount of space as one 2 x 4. A standard package includes five pieces to a bundle, therefore handling and storage space are significantly reduced.

The importance of cutting Right Angle easily, quickly and accurately is the key to time saving assembly. The Steel City® Portable Cutter provides these advantages and makes layout and erection of any structure a “light-work” job.





## Kindorf® Right Angle comes standard with our Galv-Krom® Finish, which ensures a long-lasting, durable installation.

The Galv-Krom® finish is a two-part finishing process that protects the entire system, including all nuts and bolts. The first part of the finish is electro-galvanized zinc that covers the bare steel. The second part is a gold zinc dichromate that is applied over the zinc base.

Three aspects of the Galv-Krom® process are worthy of note:

**1. Zinc Coating —** In the first part of the Galv-Krom® process, a .5 mil coating of zinc is placed on the bare steel. This ensures the sacrificial quality of any galvanizing and becomes a working finish. The zinc literally sacrifices itself over bare steel and protects cut edges or scratches which may occur during construction.

Galv-Krom® is in compliance with ASTM B633-78 Type II coating.

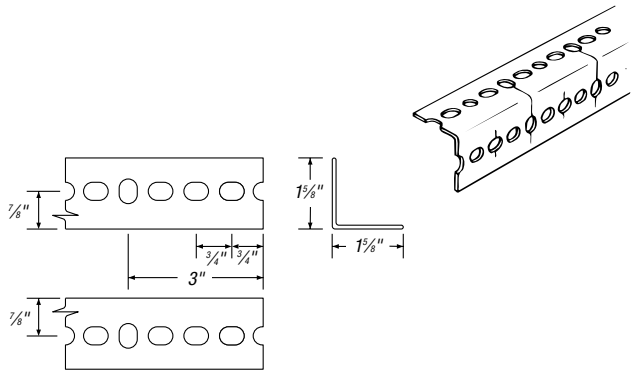
**2. Electrogalvanizing —** Because the zinc is applied through a temperature-controlled electrolytic process, a cohesive bond with the steel is assured. This prohibits chipping or peeling. It also distributes the zinc evenly so all components — including threads — can be equally protected.

**3. Gold Trivalent Chromium Barrier —** The second part of the Galv-Krom® finish is a gold trivalent chromium that is applied over the zinc base. This second layer of plating forms a non-porous barrier which protects the underlying zinc and adds additional resistance to corrosion. In addition, the gold trivalent chromium covering provides an excellent base if the surface is to be painted.

# Right Angle Slotted Angle Systems

## Type RA-160 Slotted Angle

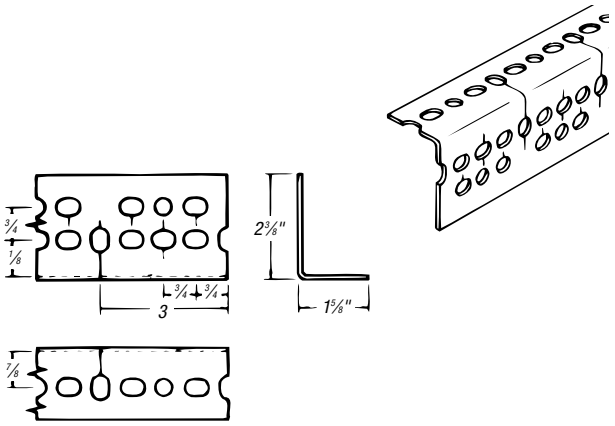
- 1⅝" x 1⅝" x .080" (14 gauge)
- Designed for light-duty applications where extra strength is not a requirement
- Ideal material for light racking and shelving
- Packaged in five 10-ft. or 12-ft. lengths complete with thirty-six ⅜" x ⅝" long hex head bolts and nuts
- Standard package 10' lengths: 39 lbs., 12' lengths: 48 lbs.




| CAT. NO. | LENGTH | FT. PER PKG. | WT. PER 100 FT. |
|---|---|---|---|
| RA-160-10 | 10 ft. | 50 | 75 lbs. |
| RA-160-12 | 12 ft. | 60 | 75 lbs. |

## Type RA-225 — For Heavy-Duty

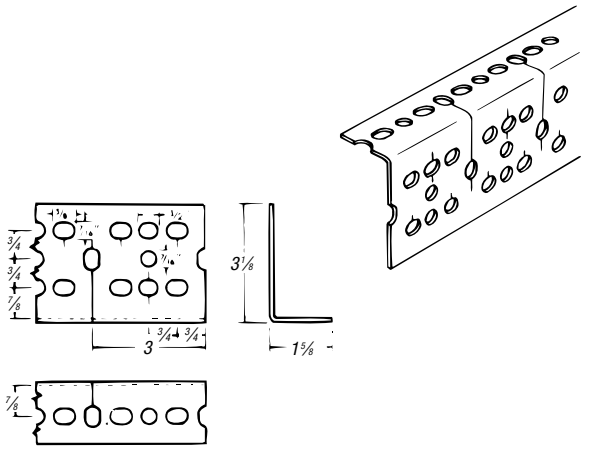
- 2⅜" x 1⅝" x .080" (14 gauge)
- Wide range versatility for nearly every type of framing
- Well suited for electrical applications
- Slot-and-hole pattern provides ready-made anchoring points for panel-board framing and fixtures of all kinds
- Packaged in five 10-ft. or 12-ft. lengths complete with thirty-six ⅜" x ⅝" long hex head bolts and nuts
- Standard package 10' lengths: 48 lbs., 12' lengths: 56 lbs.




| CAT. NO. | LENGTH | FT. PER PKG. | WT. PER 100 FT. |
|---|---|---|---|
| RA-225-10 | 10 ft. | 50 | 93 lbs. |
| RA-225-12 | 12 ft. | 60 | 93 lbs. |

## Type RA-300 — For Extra Heavy-Duty

- 3⅛" x 1⅝" x .104" (12 gauge)
- Used where heavy loads are involved
- Racks and shelving for heavy material and large structures such as ramps and balconies are typical uses
- Packaged in five 10-ft. or 12-ft. lengths complete with thirty-six ⅜" x ¾" long hex head bolts and nuts
- Standard package 10' lengths: 72 lbs., 12' lengths: 84 lbs.




| CAT. NO. | LENGTH | FT. PER PKG. | WT. PER 100 FT. |
|---|---|---|---|
| RA 300 10 | 10 ft. | 50 | 135 lbs. |
| RA-300-12 | 12 ft. | 60 | 135 lbs. |



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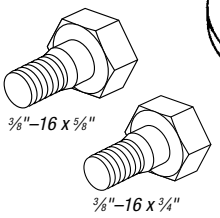
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# Right Angle Slotted Angle Systems



## Nuts Serrated — For Self-Locking

- 100 sets per package
- No. RA-BN-5/8, ⅜"–16 x ⅝" long for RA-160 and RA-225
- No. RA-BN-3/4, ⅜"–16 x ¾" long for RA-300
- A 9/16" wrench is only tool needed for assembly



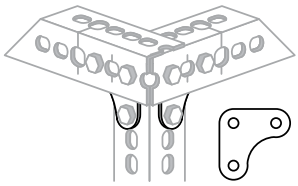



*A 9/16" wrench is only tool needed for assembly.*

| CAT. NO. | STD. CTN. | WEIGHT PER 100 SETS |
|---|---|---|
| RA BN 5/8 | 100 | 4 lbs., ⅜"–16 x ⅝" |
| RA BN 3/4 | 100 | 5 lbs., ⅜"–16 x ¾" |

## Gusset Plate

- Three hole connector for extra rigid angle assembly
- For use with all three types of right angle
- Galvanized steel



For proper assembly, insert plate between the angle flanges for 3-bolt connection.

| CAT. NO. | STD. CTN. | WEIGHT PER 100 SETS |
|---|---|---|
| RA GP | 25 | 10 |

## Portable Cutter

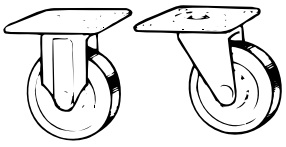
- Designed for use with all three types of slotted angle
- Cuts with single stroke of handle
- Produces clean, burr-free cuts



| CAT. NO. | STD. CTN. | WEIGHT EACH |
|---|---|---|
| RA C | 1 | 17 |

## Rigid and Swivel Casters

- Hard rubber composition
- 3½" diameter with load rating of 225 lbs. per wheel
- Plate has 13/32" diameter holes for mounting on all three types of slotted angle



*RA-RC Rigid Center*

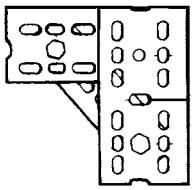
*RA-SC Swivel Caster*

| CAT. NO. | STD. CTN. | WEIGHT EACH |
|---|---|---|
| RA RC | 2 | 2 |
| RA SC | 2 | 3 |

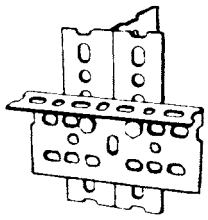
## Helpful Hints to Maximize Right Angle Erection.

### Slot and Hole Pattern

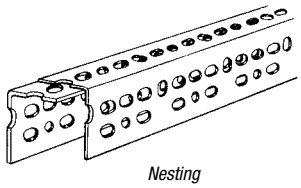
The Right Angle hole pattern is simple and flexible. It is repeated every 3" along the entire length of the Right Angle. An extended line marks the 3" increments (vertical slots), while shorter lines mark every ¾" increment. With this hole pattern, nesting, triangulation, cross beams and many additional combinations are possible.



*Triangulation*



*Cross Beams*

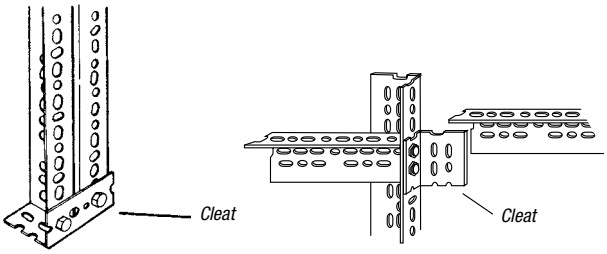


*Nesting*

### Cleat Sections

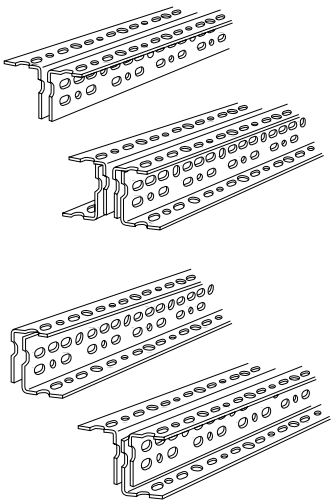
Cut Off Cleats are small sections of Right Angle used to reinforce joints or used as feet to support vertical columns. These feet prevent damage to floor surfaces or can be used to bolt a structure to the floor.

Additional joints can be made using cut off cleats. Simply butt the cleat against a column and behind a right side beam, as shown in the illustration.



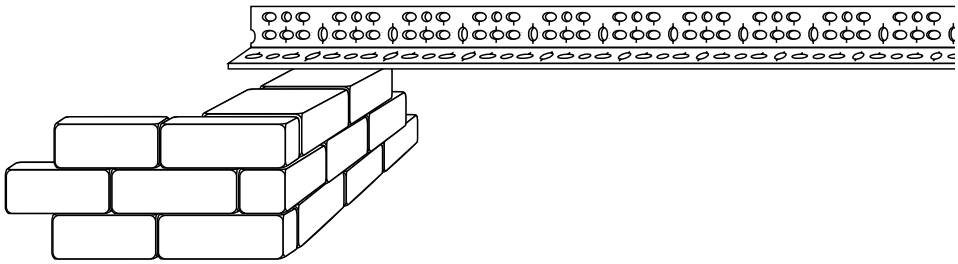
# Right Angle Slotted Angle Systems

When a beam rests on a ledge of other material (such as a wall) the long flange should extend upward. Right Angle beams are at their strongest when assembled with the long flange downward. Vertical columns may be in either direction. Place short flange of vertical column in front for shelving to permit wider opening for handling material.



### Variety of Combinations to Meet Needs

Greater strength is obtained by joining sections of Right Angle in various combinations for beams and columns. See the load charts on **page B-90** for the combination that best suits your need.



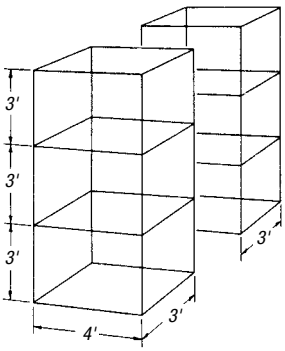
## Procedure for Laying Out Structure

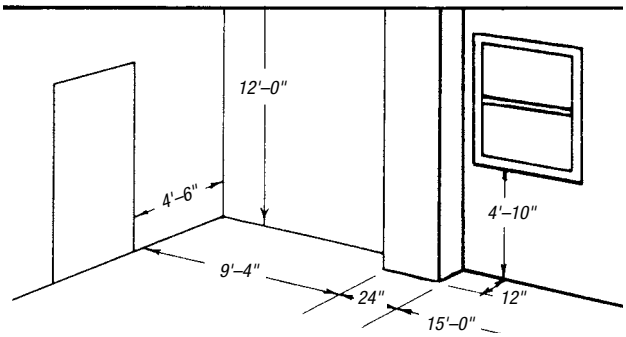
### Measure the Space

Right Angle structures may be built to the size of the space available. Measure the space and make a sketch of the area.

### Sketch the Planned Structure

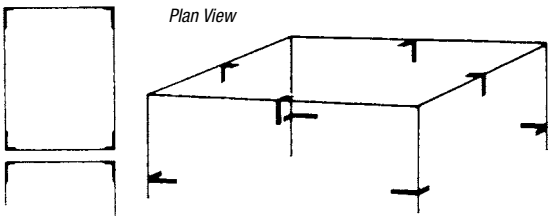
Sketch the structure you plan to build listing all vital dimensions. Include length, width and height of all sections so that load limits can be calculated safely.

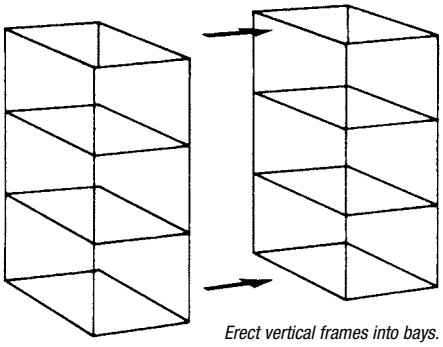



### Plan Flange Direction

Right Angle beams are at their strongest position with the long flange downward. Vertical uprights may be in either direction for equal strength. Be sure to measure the material to be shelved to allow space for handling. Your sketch will also be used as a cutting and assembly plan.



*Erect vertical frames into bays. Bolt bays together.*

### Assembling the Structure

Follow your plan for cutting sections and for layout. Assemble the structure as a series of frames, or bays and bolt together as units. Use as many bolts as possible and turn nuts up finger-tight. Square-up and level the entire structure. Proceed to tighten bolts with wrench, starting with corners to assure permanent squareness. Use diagonal bracing, if necessary. Add shelves. Your Right Angle structure is ready for a useful lifetime.



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# Right Angle Slotted Angle Systems



## Figure Load Limits

Figure the load your structure must bear on each level or shelf. This is necessary to determine the sections required to carry the load safely.

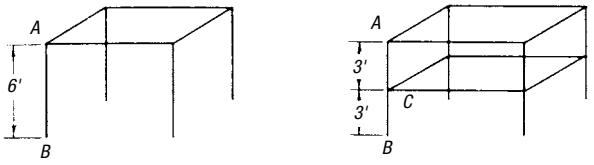
The load tables will enable you to determine the Right Angle gauge and section combination needed.

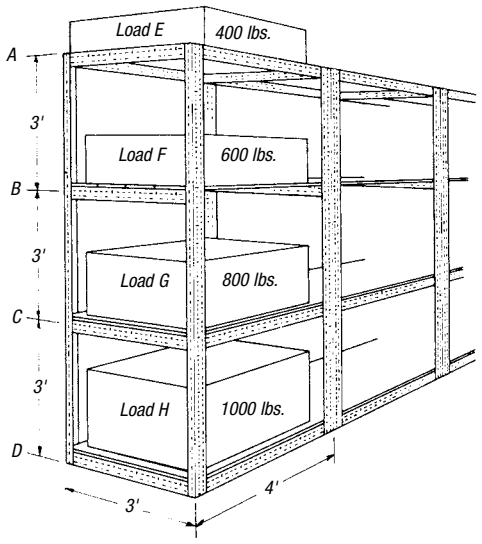
### Load Limit Example for Evenly Distributed Loads

Using the sketch shown and the load tables based on a safety factor of 2.1, calculate the weight supportable by a structure with two or more shelves. A 6-ft. high single shelf structure AB will support a load of 5,200 lbs. using RA-225 Right Angle (4 single uprights x 1,100 lbs. each) from table.

When an additional shelf is framed at C, columns become the same as two 3-ft. uprights, AC and CB, and the total safe load is 10,200 lbs. on columns CB (4 x 2,550 lbs.), based on a safety factor of 2.1. This load can be divided between the shelves in any convenient way, so long as the total load on columns CB does not exceed 10,200 lbs. If shelf loads are unequal, the heavier load should go on the lower shelf to avoid top-heavy instability.

Use the same method of calculating for three or more shelves with the load tables as reference.




*Multiple Bay Shelving*

## How to Determine Weight to Be Supported

Multiple-bay shelving is typical of many Right Angle weight-bearing structures. Load tables are your guide to the weights supportable by RA-160, RA-225 and RA-300. Strengths are increased where needed by combining sections for beams or columns, and by adding braces.

### Example for Checking Load Safety

This structure is erected as 3 separate bays and bolted together, using RA-225.

### Beam Load Bearing

Load E = 400 lbs. evenly distributed on two 4' beams. Refer to beam load tables for RA-225: Two 4' beams will support 1,090 lbs. — safe load.

Load F = 600 lbs. on solid shelf evenly distributes weight to two 3' beams. Refer to beam load tables: Two 3' beams will support 1,560 lbs. — safe load.

Load G = 800 lbs. on shelf supported by two 3' beams and two 4' beams. Add the 4 sections: 3 + 3 + 4 + 4 = 14 ft. Divide total load G by 14, i.e., 800 ÷ 14 = 57 lbs. per ft.

Compute wt. on longest beam — two 4' sections, or 8 ft. Multiply 8' x 57 lbs. per ft. load = 456 lbs. supported by the two 4' beam. Refer to load tables: Two 4' beams support 1,090 lbs. — safe load. Since the 3' beams are stronger, they are also safe for the load. Load H, any load on shelf supported by beams at floor level — considered safe.

The example illustrates methods of figuring loads on three different types of shelf construction. It is not a typical bay.

It should be remembered that a safe beam load does not assure a safe structure — column load safety must also be computed.

### Column Load Bearing

Four columns support load equally. Column section AB = b load E, or 100 lbs.

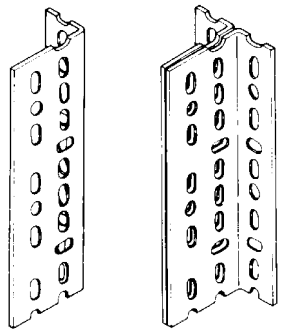
Column section BC = b load F, or 150 lbs., PLUS b load E, 100 lbs. or 250 lbs.

Column section CD = b load G, or 200 lbs. PLUS 150 lbs., b load F, PLUS 100 lbs., b load E, for a total load on section CD of 450 lbs. Load H is at floor level, does not count.

Assuming a 9' high structure, the 9' column is supported at 3' intervals by ties for shelving, the 3' column section data is used. Refer to column load tables: 3 column (vertical) supports 2,550 lbs. — safe for the load.

Figures are for a free-standing, unbraced structure. Common uprights in two or more bay structures carry a double load.

See **page B-90** for load tables.

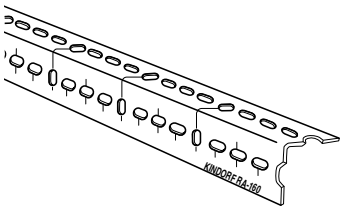


*Single Section* *T-Section*

# Column Loads

### RA 160 — 14 ga. x 1⅝" x 1⅝"

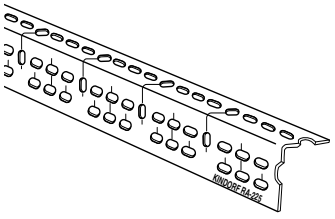
| | T-SECTION | SINGLE SECTION |
|---|---|---|
| 3' | 3,880 | 1,500 |
| 4' | 3,500 | 1,200 |
| 5' | 3,000 | 950 |
| 6' | 2,500 | 750 |




*Single Section*

### RA 225 — 14 ga. x 2⅜" x 1⅝"

| | T-SECTION | SINGLE SECTION |
|---|---|---|
| 3' | 5,550 | 2,550 |
| 4' | 5,050 | 1,900 |
| 5' | 4,400 | 1,550 |
| 6' | 3,850 | 1,300 |
| 7' | 3,400 | 970 |
| 8' | 3,000 | — |
| 9' | 2,650 | — |
| 10' | 2,300 | — |

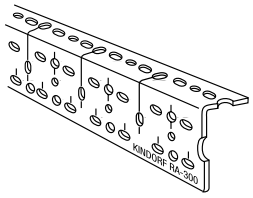



*Narrow Channel*

### RA 300 — 12 ga. x 3⅛" x 1⅝"

| | T-SECTION | SINGLE SECTION |
|---|---|---|
| 3' | 8,000 | 3,500 |
| 4' | 7,100 | 2,900 |
| 5' | 6,300 | 2,400 |
| 6' | 5,550 | 1,800 |
| 7' | 4,750 | 1,300 |
| 8' | 4,000 | 1,000 |
| 9' | 3,200 | — |
| 10' | 2,400 | — |

***Note:*** *Values shown are static loads (lbs.) applied vertically to an unbraced column. Min. safety factor of 2.1. To increase load capacity columns can be reinforced with side braces cut to size.*




*Broad Channels*

### Beam Loads

| | BROAD CHANNEL | NARROW CHANNEL | SINGLE SECTION |
|---|---|---|---|
| 3' | 2,550 | 1,490 | 770 |
| 4' | 1,780 | 1,040 | 530 |
| 5' | 1,330 | 770 | 400 |
| 6' | 1,030 | 600 | 310 |
| 7' | 820 | 470 | 240 |
| 8' | 590 | 380 | — |
| 9' | 420 | 310 | — |
| 10' | 310 | 230 | — |
| 3' | 4,110 | 3,050 | 1,560 |
| 4' | 2,870 | 2,130 | 1,090 |
| 5' | 2,140 | 1,580 | 810 |
| 6' | 1,660 | 1,230 | 630 |
| 7' | 1,330 | 980 | 500 |
| 8' | 1,080 | 790 | 410 |
| 9' | 890 | 650 | 330 |
| 10' | 720 | 540 | 280 |
| 3' | 7,570 | 6,300 | 3,220 |
| 4' | 5,290 | 4,400 | 2,250 |
| 5' | 3,950 | 3,280 | 1,680 |
| 6' | 3,060 | 2,540 | 1,300 |
| 7' | 2,440 | 2,020 | 1,040 |
| 8' | 1,990 | 1,650 | 840 |
| 9' | 1,650 | 1,360 | 690 |
| 10' | 1,380 | 1,140 | 580 |

***Note:*** *Values shown are for a pair of beams supporting an evenly distributed load (lbs.). For a concentrated load these values should be halved. Min. safety factor of 1.4. Multiple angle beams should be bolted every 6 in. with bolts staggered in alternate rows. To increase load capacity tie angles can be cut to size and bolted between beams.*



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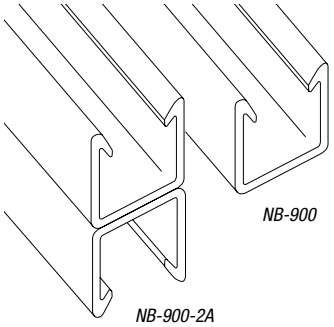
# Non-Metallic Channel and Accessories

## Channels

Kindorf® strut is a complete corrosion-proof system, with a comprehensive selection of channels and accessories. Cost-efficient, extremely durable, easy to use, and made of the strongest non-metallic materials available.

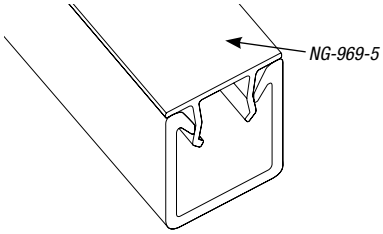
**Kindorf®: Demanding products for demanding environments.**

- Can't rust under the worst of conditions
- Cost effective
- Maintenance free
- Easy to use, cut and drill
- Ideal for a wide variety of applications
- Unsurpassed reliability




| CAT. NO. | DESCRIPTION | MATERIAL | COLOR | LBS. WT./100 FT. |
|---|---|---|---|---|
| **NB 900 10 P** | 1½" x 1½" x 10' Single Channel | Polyester | Gray | 55 |
| **NB-900-10-V** | 1½" x 1½" x 10' Single Channel | Vinylester | Beige | 55 |
| **NB-900-2A-10-P** | 3" x 1½" x 10' Back-to-Back Channel | Polyester | Gray | 110 |
| **NB-900-2A-10-V** | 3" x 1½" x 10' Back-to-Back Channel | Vinylester | Beige | 110 |

## Channel Closure Strip




| CAT. NO. | DESCRIPTION | MATERIAL | COLOR | LBS. WT./100 FT. |
|---|---|---|---|---|
| **NG-969-5** | Standard Length 5' | Rigid PVC | Dark Gray | 20 |

### Channel Simple Beam Loading Table

| CAT. NO. | MAX UNIFORM BEAM LOAD LBS. | MAX UNIFORM BEAM LOAD DEF (IN.) | 1/360 SPAN LBS. | 1/360 SPAN DEF (IN.) | MAX COLUMN LOAD LBS. |
|---|---|---|---|---|---|
| ***12 inches*** | | | | | |
| **NB 900 10 -P** | 1,430 | .066 | 723 | .033 | 3439 |
| **NB-900-10-V** | 1,430 | .066 | 723 | .033 | 3439 |
| **NB-900-2A-10-P** | 4231 | .036 | 3940 | .033 | 7007 |
| **NB-900-2A-10-V** | 4231 | .036 | 3940 | .033 | 7007 |
| ***18 inches*** | | | | | |
| **NB 900 10 P** | 953 | .148 | 321 | .050 | 3136 |
| **NB-900-10-V** | 953 | .148 | 321 | .050 | 3136 |
| **NB-900-2A-10-P** | 2,821 | .081 | 1751 | .050 | 6501 |
| **NB-900-2A-10-V** | 2,821 | .081 | 1751 | .050 | 6501 |
| ***24 inches*** | | | | | |
| **NB 900 10 P** | 715 | .264 | 180 | .067 | 2778 |
| **NB-900-10-V** | 715 | .264 | 180 | .067 | 2778 |
| **NB-900-2A-10-P** | 2,115 | .143 | 985 | .067 | 5909 |
| **NB-900-2A-10-V** | 2,115 | .143 | 985 | .067 | 5909 |
| ***30 inches*** | | | | | |
| **NB 900 10 P** | 572 | .412 | 115 | .083 | 2369 |
| **NB-900-10-V** | 572 | .412 | 115 | .083 | 2369 |
| **NB-900-2A-10-P** | 1,692 | .224 | 630 | .083 | 5236 |
| **NB-900-2A-10-V** | 1,692 | .224 | 630 | .083 | 5236 |
| ***36 inches*** | | | | | |
| **NB 900 10 P** | 476 | .593 | 80 | .100 | 1,906 |
| **NB-900-10-V** | 476 | .593 | 80 | .100 | 1,906 |
| **NB-900-2A-10-P** | 1,410 | .322 | 437 | .100 | 4,482 |
| **NB-900-2A-10-V** | 1,410 | .322 | 437 | .100 | 4,482 |
| ***48 inches*** | | | | | |
| **NB 900 10 P** | 357 | 1.055 | 45 | .133 | 1,091 |
| **NB-900-10-V** | 357 | 1.055 | 45 | .133 | 1,091 |
| **NB-900-2A-10-P** | 1,057 | .573 | 246 | .133 | 2,809 |
| **NB-900-2A-10-V** | 1,057 | .573 | 246 | .133 | 2,809 |
| ***60 inches*** | | | | | |
| **NB 900 10 P** | 286 | 1.648 | 28 | .167 | 698 |
| **NB-900-10-V** | 286 | 1.648 | 28 | .167 | 698 |
| **NB-900-2A-10-P** | 846 | .895 | 157 | .167 | 1,798 |
| **NB-900-2A-10-V** | 846 | .895 | 157 | .167 | 1,798 |
| ***72 inches*** | | | | | |
| **NB 900 10 P** | 238 | 2.373 | 20 | .200 | 485 |
| **NB-900-10-V** | 238 | 2.373 | 20 | .200 | 485 |
| **NB-900-2A-10-P** | 705 | 1.289 | 109 | .200 | 1,248 |
| **NB-900-2A-10-V** | 705 | 1.289 | 109 | .200 | 1,248 |

*Deflection in excess of 3.00 inches; midspan support is recommended.*

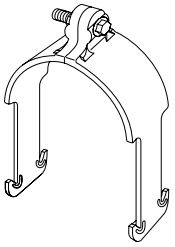
*Table lists the total allowable load for various simple spans based on a minimum safety factor of 3.*

All beams should be supported in a manner to prevent rotation at supports. **For beams longer than 72 inches, contact manufacturer's engineering department.** Recommend sealing ends of channel with sealant after cutting.

# Non-Metallic Channel and Accessories



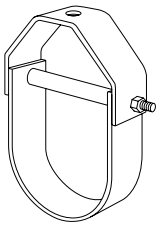
## Pipe Clamps



| CAT. NO. | CONDUIT/PIPE STYLE NOMINAL IN. | PVC SCH. 80 | RIGID | PVC COATED METAL (TYP.) | RECOMMENDED TORQUE IN LBS. | DESIGN LOAD* | WT. LBS./100 |
|---|---|---|---|---|---|---|---|
| NC-105-1/2 | ½ | .840 | .840 | .920 | 5 | 100 | 4 |
| NC-105-3/4 | ¾ | 1.050 | 1.050 | 1.130 | 5 | 100 | 4 |
| NC-105-1 | 1 | 1.315 | 1.315 | 1.395 | 5 | 200 | 4.8 |
| NC-105-1 1/4 | — | — | — | — | — | — | — |
| NC-105-1 1/2 | 1½ | 1.900 | 1.900 | 1.980 | 5 | 200 | 6.4 |
| NC-105-2 | 2 | 2.375 | 2.375 | 2.455 | 5 | 200 | 8 |
| NC-105-3 | 3 | 3.500 | 3.500 | 3.580 | 20 | 300 | 10 |
| NC-105-4 | 4 | 4.500 | 4.500 | 4.580 | 20 | 300 | 10 |
| NC-105-6 | 6 | 6.625 | 6.625 | 6.705 | 20 | 300 | 16.3 |

** Design load is based on pullout values with a safety factor of 3.*
*Material: Polyurethane.*
*Color: Gray.*

## Clevis Hangers

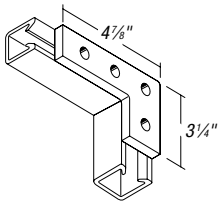


| CAT. NO. | NOMINAL DIAMETER | (A) MAX PIPE OD | (B) DIMENSION HEIGHT | (C) HANGER ROD SIZE | MAXIMUM LOAD | WT. LBS./100 |
|---|---|---|---|---|---|---|
| NC-149-1 | 1 | 1½ | 2¾ | ½ | 60 | 20.8 |
| NC-149-1 1/2 | 1½ | 2 | 3½ | ½ | 60 | 24 |
| NC-149-2 | 2 | 2⅝ | 4¾ | ½ | 90 | 38 |
| NC-149-2 1/2 | 2½ | 3¼ | 5½ | ½ | 120 | 40 |
| NC-149-3 | 3 | 3⅞ | 7 | ⅝ | 160 | 62.5 |
| NC-149-4 | 4 | 5⅛ | 8½ | ⅝ | 250 | 88 |
| NC-149-6 | 6 | 7⅛ | 10⅞ | ⅝ | 400 | 170 |
| NC-149-8 | 8 | 9¼ | 14 | ⅝ | 450 | 250 |
| NC-149-10 | 10 | 11⅜ | 18 | ⅝ | 500 | 400 |
| NC-149-12 | 12 | 13½ | 21½ | ⅝ | 600 | 550 |
| NC-149-14 | 14 | 15¾ | 24½ | ¾ | 700 | 700 |
| NC-149-16 | 16 | 18 | 27⅜ | ¾ | 800 | 1,150 |
| NC-149-19 | 19 | 21 | 34¼ | ¾ | 900 | 1,700 |

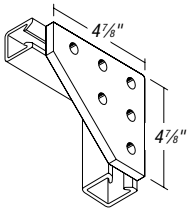
*Design loads given are in pounds at 70° F with a safety factor of 3.*
*Insulate hangers from pipe at higher temperatures*
*Material: Polyester*
*Color: Yellow and Gray*

## Fittings

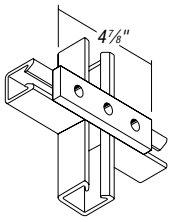
- Polyester and Vinylester Kindorf® fittings are suited for use with all 1½" and 1⅝" channels
- Kindorf® fittings are manufactured from 3⁄16" flat material
- Consult the Chemical Compatibility Chart to ensure material will withstand the specific chemical environment
- All holes in Kindorf® fittings are 13⁄32" in diameter



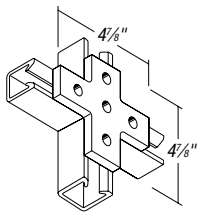
NB-936-P
NB-936-V



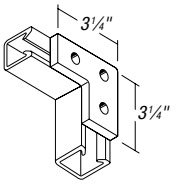
NB-944



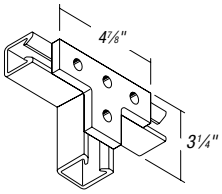
NB-935-P
NB-935-V



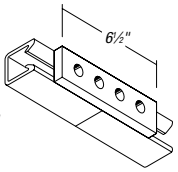
NB-947



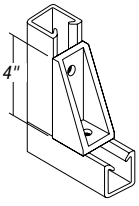
NB-931



NB-937-P

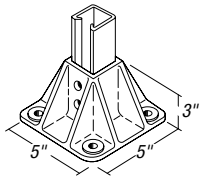


NB-949-P

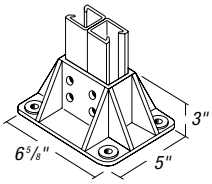


NB-918

| CAT. NO. | MATERIAL | COLOR | WT. LBS./100 |
|---|---|---|---|
| NB-935-P | Polyester | Gray | 13 |
| NB-935-V | Vinylester | Beige | 13 |
| NB-931 | Polyurethane | Gray | 14 |
| NB-947 | Polyurethane | Gray | 24 |
| NB-949-P | Polyester | Gray | 22 |
| NB-936-P | Polyester | Gray | 28 |
| NB-936-V | Vinylester | Beige | 28 |
| NB-937-P | Polyester | Gray | 20 |
| NB-924 | Polyurethane | Gray | 56 |
| NB-944 | Polyurethane | Gray | 34 |
| NB-925 | Polyurethane | Gray | 70 |
| NB-918 | Polyurethane | Gray | 4.6 |



NB-924



NB-925

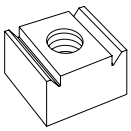


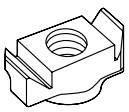
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# Non-Metallic Channel and Accessories



## Channel Nuts

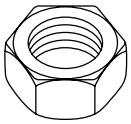




| CAT. NO. | THREAD SIZE (IN.) | MAXIMUM LOAD/LBS. | MAXIMUM TORQUE/ LBS. | WT. LBS./100 |
|---|---|---|---|---|
| NB-910-3/8 | ⅜ | 450 | 35 | 1.8 |
| NB-910-3/8 HD | ⅜ | 1,370 | 100 | 2.6 |
| NB-910-1/2 | ½ | 450 | 40 | 1.8 |
| NB-910-1/2 HD | ½ | 1,500 | 130 | 5.2 |

*Safety factor of 3.*
*Material: Glass fiber reinforced polyurethane.*
*Color: Gray.*

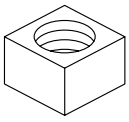
## Hex Nuts



| CAT. NO. | SIZE (IN.) | MAXIMUM LOAD/LBS. | MAXIMUM TORQUE/LBS. | WT. LBS./100 |
|---|---|---|---|---|
| NH-114C | ⅜ | 465 | 50 | .33 |
| NH-114-D | ½ | 830 | 125 | .8 |

*Safety factor of 3.*
*Material: Glass fiber reinforced polyurethane.*
*Color: Gray.*

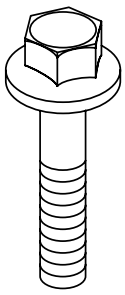
## Square Nuts



| CAT. NO. | SIZE (IN.) | THREAD SHEAR/ LBS. | MAXIMUM TORQUE/ LBS. | WT. LBS./100 |
|---|---|---|---|---|
| NH-116C | ⅜ | 1,300 | 125 | 1.8 |
| NH-116-D | ½ | 1,600 | 200 | 2.8 |
| NH-116-E | ⅝ | 1,600 | 200 | 5.6 |

*Safety factor of 3.*
*Material: Vinylester.*
*Color: Gray.*

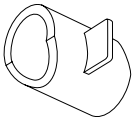
## Hex Head Bolts



| CAT. NO. | SIZE (IN.) | THREAD SHEAR/LBS. | MAXIMUM TORQUE/ LBS. | WT. LBS./100 |
|---|---|---|---|---|
| NH-113-P | ⅜ x 1¼ | 360 | 30 | 1.4 |
| NH-113-U | ⅜ x 2½ | 360 | 30 | 2 |
| NH-113C* | ½ x 1¼ | 600 | 90 | 1.4 |
| NH-113-H* | ½ x 2½ | 600 | 90 | 2 |

*Safety factor of 3.*
*Material: Glass fiber reinforced polyurethane.*
*Color: Gray.*
** With molded washer.*

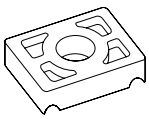
## Channel Reinforcement Spacer



| CAT. NO. | HOLE SIZE (IN.) | WT. LBS./100 |
|---|---|---|
| NB-950 | ⅜–½ | 1.6 |

*Material: Polyurethane*
*Color: Gray*

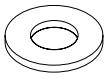
## Channel Washers



| CAT. NO. | SIZE (IN.) | WT. LBS./100 |
|---|---|---|
| NH-119-C | ⅜ | 4 |
| NH-119-D | ½ | 3.6 |
| NH-119-E | ⅝ | 3.6 |

*Material: Glass fiber reinforced polyurethane.*
*Color: Gray.*

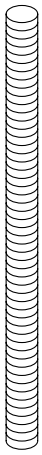
## Flat Washers



| CAT. NO. | SIZE (IN.) | WT. LBS./100 |
|---|---|---|
| NH-117-C | ⅜ | .6 |
| NH-117-D | ½ | .6 |
| NH-117-E | ⅝ | .8 |

*Material: Rigid PVC.*
*Color: Gray.*

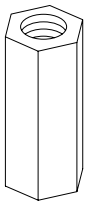
## Threaded Rod



| CAT. NO. | SIZE | THREAD SHEAR/LBS. | MAXIMUM TORQUE/ LBS. | WT. LBS./100 |
|---|---|---|---|---|
| NH-193-3/8-4 | ⅜" x 4' | 300 | 30 | 7.0 |
| NH-193-1/2-4 | ½" x 4' | 510 | 80 | 12 |
| NH-193-5/8-4 | ⅝" x 4' | 1,600 | 200 | 18 |

*Safety factor of 3.*
*Material: Vinylester.*
*Color: Gray.*

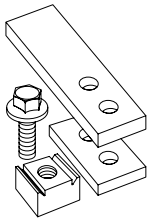
## Rod Couplers



| CAT. NO. | SIZE (IN.) | MAXIMUM LOAD/LBS. | WT. LBS./100 |
|---|---|---|---|
| NH-195-3/8 | ⅜ | 880 | 6.4 |
| NH-195-1/2 | ½ | 1,000 | 6.4 |
| NH-195-5/8 | ⅝ | 1,700 | 13.2 |

*Safety factor of 3.*
*Material: Glass fiber reinforced polyurethane.*
*Color: Gray.*

## Channel to Beam Clamp Assembly



| CAT. NO. | STD. WT. (LBS.) | MAXIMUM LOAD/LBS. |
|---|---|---|
| NE-763-3/8 | 110 | 200 |
| NE-763-1/2 | 120 | 200 |

***Kit consists of:***

| DESCRIPTION | STD. CTN. | MATERIAL | COLOR |
|---|---|---|---|
| Channel Nuts | 4 | Polyurethane | Gray |
| Clips (set) | 2 | Vinylester | Beige |
| Bolts | 4 | Polyurethane | Gray |

# Non-Metallic Channel and Accessories

## Kindorf® Brush-On Fiberglass End Sealant




When fabricating Type "P" or "V" Series materials, Kindorf® Fiberglass End Sealant should be used. After cutting or drilling the channel, interior glass fibers may fray and lose strength due to exposure to the environment. Kindorf® sealant protects the exposed glass fibers and prevents deterioration. Kindorf® sealant exceeds Vinylester (V) material in corrosion resistance.

| CAT. NO. | DESCRIPTION | SIZE | WT. LBS./100 |
|---|---|---|---|
| NH-600 | Brush-on sealant | 1 qt. | 220 |

## Kindorf® Spray-On Fiberglass End Sealant




Kindorf® Spray-On Fiberglass End Sealant provides a quick and easy corrosion-resistant coating when applied to fiberglass channel and accessories. Kindorf® Spray-On Fiberglass End Sealant is a rubberized spray which is supplied in a 12 oz. pressurized can.

| CAT. NO. | DESCRIPTION | SIZE | WT. LBS./100 |
|---|---|---|---|
| NH-601 | Spray-on sealant | 12 oz. | 100 |

### Chemical Resistance

| | POLYESTER | | VINYLESTER | | RIGID PVC | | POLYURETHANE | |
|---|---|---|---|---|---|---|---|---|
| CHEMICAL | 70°F | 160°F | 70°F | 160°F | 70°F | 160°F | 70°F | 160°F |
| Acetic Acid, <50% | • | • | • | • | † | † | • | — |
| Acetone, <10% | † | † | † | † | — | — | — | — |
| Aluminum Hydroxide | • | • | • | • | — | — | — | — |
| Ammonium Hydroxide, <20% | † | † | • | 150° | • | • | • | — |
| Ammonium Nitrate | • | • | • | • | — | — | — | — |
| Ammonium Phosphate | • | • | • | • | — | — | — | — |
| Benzene | • | • | † | † | — | — | — | — |
| Benzoic Acid | • | • | • | • | • | • | • | — |
| Bromine, Wet Gas | † | † | • | 100° | • | † | — | — |
| Butylene Glycol | • | • | • | • | — | — | — | — |
| Butyric Acid, <50% | • | • | • | • | — | — | — | — |
| Chlorine, Dry Gas | • | • | • | • | — | — | — | — |
| Chlorine, Wet Gas | † | † | • | • | — | — | — | — |
| Chlorine, Liquid | † | † | † | † | — | — | — | — |
| Chlorine, Water | • | • | • | • | • | • | • | — |
| Chromic Acid, <5% | † | † | • | • | — | — | — | — |
| Copper Chloride | • | • | • | • | • | • | • | — |
| Copper Cyanide | • | • | • | • | • | • | • | — |
| Copper Nitrate | • | • | • | • | — | — | — | — |
| Copper Sulfate | • | • | • | • | • | • | • | — |
| Esters, Fatty Acids | • | • | • | • | — | — | — | — |
| Ferric Chloride | • | • | • | • | • | • | — | — |
| Ferrous Chloride | • | • | • | • | — | — | — | — |
| Fluoboric Acid | • | 120° | • | • | • | • | • | — |
| Fluosilicic Acid, <32% | † | † | • | 100° | — | — | — | — |
| Formic Acid, <50% | † | † | • | 100° | † | † | • | — |

| | POLYESTER | | VINYLESTER | | RIGID PVC | | POLYURETHANE | |
|---|---|---|---|---|---|---|---|---|
| CHEMICAL | 70°F | 160°F | 70°F | 160°F | 70°F | 160°F | 70°F | 160°F |
| Gasoline, Aviation | • | † | • | • | — | — | — | — |
| Hydrochloric Acid, <37% | • | † | • | • | • | • | • | — |
| Hydroflouric Acid, <20% | † | † | • | 100° | • | † | — | — |
| Hydrogen Chloride, Wet Gas | • | † | • | • | — | — | — | — |
| Hydrogen Sulfide, Wet Gas | • | † | • | • | • | • | — | — |
| Lactic Acid | • | † | • | • | • | • | • | — |
| Nickel Sulfate, low pH | † | † | • | • | — | — | — | — |
| Nickel Sulfate, high pH | † | † | • | • | — | — | — | — |
| Nitric Acid, <35% | † | † | • | 120° | • | • | • | — |
| Perchloric Acid, <10% | † | † | • | 150° | — | — | — | — |
| Phosphoric Acid | • | • | • | • | • | • | • | — |
| Potassium Chloride | • | • | • | • | • | • | • | — |
| Potassium Nitrate | • | • | • | • | — | — | — | — |
| Potassium Persulfate | † | † | • | • | — | — | — | — |
| Sodium Hydroxide, <50% | † | † | • | 180° | • | • | • | — |
| Sodium Hypochlorite, <15% | † | † | • | 150° | • | • | • | — |
| Sodium Nitrate | • | • | • | • | — | — | — | — |
| Sodium Sulfate | • | † | • | • | — | — | — | — |
| Sodium Sulfide | † | † | • | • | • | • | • | — |
| Sulfuric Acid, <70% | † | † | • | • | • | • | • | — |
| Sulfuric Acid >70% | † | † | • | 102° | † | † | — | — |
| Trisodium Phosphate | † | † | • | • | • | • | • | — |
| Urea | • | † | • | 150° | — | — | — | — |
| Vegetable Oils | • | • | • | • | — | — | — | — |
| Vinegar | • | • | • | • | — | — | — | — |
| White Liquor | — | — | • | • | • | • | • | — |

*• Recommended for use*

*° Recommended up to temperature indicated*

*† Not recommended for use*

*— No information available at this time*

**Type operating ranges for:**

| | |
|---|---|
| Polyester | -30° F–150° F |
| Vinylester | -35° F–200° F |
| Polyurethane | -40° F–130° F |
| Nylon | -20° F–150° F |

***Note:*** *The guidelines presented in this table assume the typical application of Kindorf® products where exposure is limited to fumes, vapors, and occasional splashes from chemicals. This information is intended as a guideline and does not guarantee product performance for the applications listed. In special situations where chemical resistance is critical, the factory should be consulted. Some applications may require a screening test of samples in the chemical environment of interest. The user is advised to determine suitability of the product for its particular use.*

*Class I fire rated per ASTM E-84 and are UL-94 V-0.*



**United States**
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

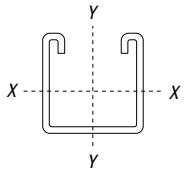
**Technical Services**
Tel: 888.862.3289

www.tnb.com

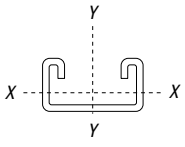
# Technical Information

## Metallic Engineering Data and Specifications

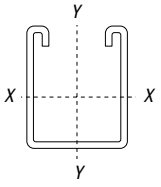
### Channel Load Data



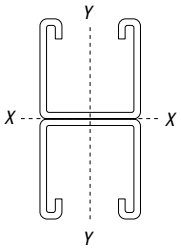

*B-900*
*1½" x 1½" x 12 ga. steel*
*B-900-M*
*1½" x 1½" x 14 ga. steel*
*B-900-AL*
*1½" x 1½" x .1046 aluminum*



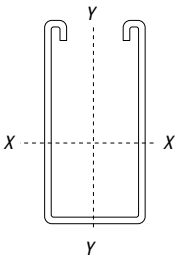

*B-906*
*1½" x ¾" x 14 ga. steel*




*B-901*
*1⅞" x 1½" x 12 ga. steel*




*B-900-2A*
*1½" x 3" x 12 ga. steel*




*B-902*
*1½" x 3" x 12 ga. steel*

| CHANNEL | AREA | LBS./FT. | X-X AXIS I | X-X AXIS S | X-X AXIS R | Y-Y AXIS I | Y-Y AXIS S | Y-Y AXIS R |
|---|---|---|---|---|---|---|---|---|
| ***Steel Section Properties*** | | | | | | | | |
| ***Material Properties f=30,000 E=30,000,000*** | | | | | | | | |
| **B-906** | .217 | .740 | .018 | .041 | .272 | .077 | .105 | .559 |
| **B-900** | .521 | 1.776 | .155 | .179 | .545 | .200 | .259 | .619 |
| **B-900-M** | .354 | 1.206 | .101 | .123 | .535 | .129 | .175 | .603 |
| **B-901** | .595 | 2.028 | .263 | .251 | .665 | .238 | .309 | .632 |
| **B-902** | .837 | 2.852 | .909 | .552 | 1.042 | .363 | .471 | .658 |

| SPAN | CHANNEL | SIMPLE BEAM UNIFORMLY DISTRIBUTED LOAD MAX LOAD | DEFLECTION | 1/240 SPAN LOAD | DESIGN LOAD | SIMPLE BEAM CONCENTRATED CENTER LOAD MAX LOAD | DEFLECTION | 1/240 SPAN LOAD | DESIGN LOAD | COL. LOAD FOR K=1 |
|---|---|---|---|---|---|---|---|---|---|---|
| | **B-906** | 820 | .034 | 1,200 | 820 | 410 | .027 | 750 | 410 | 7,337 |
| | **B-900** | 3,580 | .017 | 10,333 | 3,580 | 1,790 | .014 | 6,458 | 1,790 | 7,628 |
| 12" | **B-900-M** | 2,460 | .018 | 6,733 | 2,460 | 1,230 | .015 | 4,208 | 1,230 | 7,625 |
| | **B-901** | 5,020 | .014 | 17,533 | 5,020 | 2,510 | .011 | 10,958 | 2,510 | 7,660 |
| | **B-902** | 11,040 | .009 | 60,600 | 11,040 | 5,520 | .007 | 37,875 | 5,520 | 7,699 |
| | **B-906** | 547 | .077 | 533 | 533 | 273 | .062 | 333 | 273 | 6,852 |
| | **B-900** | 2,387 | .039 | 4,593 | 2,387 | 1,193 | .031 | 2,870 | 1,193 | 7,507 |
| 18" | **B-900-M** | 1,640 | .041 | 2,993 | 1,640 | 820 | .033 | 1,870 | 820 | 7,499 |
| | **B-901** | 3,347 | .032 | 7,793 | 3,347 | 1,673 | .026 | 4,870 | 1,673 | 7,579 |
| | **B-902** | 7,360 | .020 | 26,933 | 7,360 | 3,680 | .016 | 16,833 | 3,680 | 7,665 |
| | **B-906** | 410 | .137 | 300 | 300 | 205 | .109 | 188 | 188 | 6,172 |
| | **B-900** | 1,790 | .069 | 2,583 | 1,790 | 895 | .055 | 1615 | 895 | 7,338 |
| 24" | **B-900-M** | 1,230 | .073 | 1,683 | 1,230 | 615 | .058 | 1,052 | 615 | 7,324 |
| | **B-901** | 2,510 | .057 | 4,383 | 2,510 | 1,255 | .046 | 2,740 | 1,255 | 7,465 |
| | **B-902** | 5,520 | .036 | 15,150 | 5,520 | 2,760 | .029 | 9,469 | 2,760 | 7,619 |
| | **B-906** | 328 | .214 | 192 | 192 | 164 | .171 | 120 | 120 | 5,299 |
| | **B-900** | 1,432 | .108 | 1,653 | 1,432 | 716 | .067 | 1,033 | 716 | 7,121 |
| 30" | **B-900-M** | 984 | .114 | 1,077 | 984 | 492 | .091 | 673 | 492 | 7,098 |
| | **B-901** | 2,008 | .089 | 2,805 | 2,008 | 1,004 | .072 | 1,753 | 1004 | 7,319 |
| | **B-902** | 4,416 | .057 | 9,696 | 4,416 | 2,208 | .046 | 6,060 | 2,208 | 7,560 |
| | **B-906** | 273 | .308 | 133 | 133 | 137 | .246 | 83 | 83 | 4,231 |
| | **B-900** | 1,193 | .156 | 1,148 | 1,148 | 597 | .125 | 718 | 597 | 6,855 |
| 36" | **B-900-M** | 820 | .164 | 748 | 748 | 410 | .132 | 468 | 410 | 6,822 |
| | **B-901** | 1,673 | .129 | 1,948 | 1,673 | 837 | .103 | 1,218 | 837 | 7,140 |
| | **B-902** | 3,680 | .082 | 6,733 | 3,680 | 1,840 | .066 | 4,208 | 1,840 | 7,487 |

*For channel with holes in bottom, multiply load by .95.*
*For channel with holes in bottom and sides, multiply load by .90.*
*For extruded aluminum channel, multiply load by .33.*
*Column loads calculated in accordance with ANSI Light Gauge Cold-Formed Steel Design Manual, Section 3.6.*

# Technical Information

## Channel Load Data *(continued)*

| | | SIMPLE BEAM UNIFORMLY DISTRIBUTED LOAD | | | | SIMPLE BEAM CONCENTRATED CENTER LOAD | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SPAN | CHANNEL | MAX LOAD | DEFLECTION | 1/240 SPAN LOAD | DESIGN LOAD | MAX LOAD | DEFLECTION | 1/240 SPAN LOAD | DESIGN LOAD | COL. LOAD FOR K=1 |
| | **B-906** | 234 | .419 | 98 | 98 | 117 | .335 | 61 | 61 | 3,125 |
| | **B-900** | 1,023 | .212 | 844 | 844 | 511 | .170 | 527 | 511 | 6,541 |
| 42" | **B-900-M** | 703 | .224 | 550 | 550 | 351 | .179 | 344 | 344 | 6,496 |
| | **B-901** | 1,434 | .175 | 1,431 | 1,431 | 717 | .140 | 895 | 717 | 6,929 |
| | **B-902** | 3,154 | .112 | 4,947 | 3,154 | 1,577 | .089 | 3,092 | 1,577 | 7,401 |
| | **B-906** | 205 | .547 | 75 | 75 | 103 | .437 | 47 | 47 | 2,392 |
| | **B-900** | 895 | .277 | 646 | 646 | 448 | .222 | 404 | 404 | 6,178 |
| 48" | **B-900-M** | 615 | .292 | 421 | 421 | 308 | .234 | 263 | 263 | 6,120 |
| | **B-901** | 1,255 | .229 | 1,096 | 1,096 | 628 | .183 | 685 | 628 | 6,686 |
| | **B-902** | 2,760 | .146 | 3,788 | 2,760 | 1,380 | .117 | 2,367 | 1,380 | 7,302 |
| | **B-906** | 182 | .692 | 59 | 59 | 91 | .554 | 37 | 37 | 1,890 |
| | **B-900** | 796 | .351 | 510 | 510 | 398 | .281 | 319 | 319 | 5,767 |
| 54" | **B-900-M** | 547 | .370 | 333 | 333 | 273 | .296 | 208 | 208 | 5,693 |
| | **B-901** | 1,116 | .290 | 866 | 866 | 558 | .232 | 541 | 541 | 6,410 |
| | **B-902** | 2,453 | .184 | 2,993 | 2,453 | 1,227 | .148 | 1,870 | 1,227 | 7,189 |
| | **B-906** | 164 | .854 | 48 | 48 | 82 | .683 | 30 | 30 | 1,531 |
| | **B-900** | 716 | .433 | 413 | 413 | 358 | .346 | 258 | 258 | 5,308 |
| 60" | **B-900-M** | 492 | .457 | 269 | 269 | 246 | .365 | 168 | 168 | 5,216 |
| | **B-901** | 1,004 | .358 | 701 | 701 | 502 | .286 | 438 | 438 | 6,101 |
| | **B-902** | 2,208 | .228 | 2,424 | 2,208 | 1,104 | .182 | 1,515 | 1,104 | 7,064 |
| | **B-906** | 137 | 1.230 | 33 | 33 | 68 | .984 | 21 | 21 | 1,063 |
| | **B-900** | 597 | .624 | 287 | 287 | 298 | .499 | 179 | 179 | 4,244 |
| 72" | **B-900-M** | 410 | .658 | 187 | 187 | 205 | .526 | 117 | 117 | 4,113 |
| | **B-901** | 837 | .515 | 487 | 487 | 418 | .412 | 304 | 304 | 5,387 |
| | **B-902** | 1,840 | .328 | 1,683 | 1,683 | 920 | .262 | 1,052 | 920 | 6,773 |
| | **B-906** | 117 | 1.674 | 24 | 24 | 59 | 1.339 | 15 | 15 | 781 |
| | **B-900** | 511 | .849 | 211 | 211 | 256 | .679 | 132 | 132 | 3,136 |
| 84" | **B-900-M** | 351 | .895 | 137 | 137 | 176 | .716 | 86 | 86 | 3,022 |
| | **B-901** | 717 | .701 | 358 | 358 | 359 | .561 | 224 | 224 | 4,543 |
| | **B-902** | 1,577 | .446 | 1,237 | 1,237 | 789 | .357 | 773 | 773 | 6,429 |
| | **B-906** | 103 | 2.187 | 19 | 19 | 51 | 1.749 | 12 | 12 | 598 |
| | **B-900** | 448 | 1.109 | 161 | 161 | 224 | .887 | 101 | 101 | 2,401 |
| 96" | **B-900-M** | 308 | 1.169 | 105 | 105 | 154 | .935 | 66 | 66 | 2,314 |
| | **B-901** | 628 | .916 | 274 | 274 | 314 | .733 | 171 | 171 | 3,575 |
| | **B-902** | 1,380 | .583 | 947 | 947 | 690 | .466 | 592 | 592 | 6,032 |
| | **B-906** | 91 | 2.768 | 15 | 15 | 46 | 2.214 | 9 | 9 | 473 |
| | **B-900** | 398 | 1.403 | 128 | 128 | 199 | 1.123 | 80 | 80 | 1,897 |
| 108" | **B-900-M** | 273 | 1.480 | 83 | 83 | 137 | 1.184 | 52 | 52 | 1,828 |
| | **B-901** | 558 | 1.160 | 216 | 216 | 279 | .928 | 135 | 135 | 2,825 |
| | **B-902** | 1,227 | .738 | 748 | 748 | 613 | .590 | 468 | 468 | 5,582 |
| | **B-906** | 82 | 3.417 | 12 | 12 | 41 | 2.733 | 8 | 8 | 383 |
| | **B-900** | 358 | 1.732 | 103 | 103 | 179 | 1.386 | 65 | 65 | 1,537 |
| 120" | **B-900-M** | 246 | 1.827 | 67 | 67 | 123 | 1.461 | 42 | 42 | 1,481 |
| | **B-901** | 502 | 1.432 | 175 | 175 | 251 | 1.145 | 110 | 110 | 2,288 |
| | **B-902** | 1,104 | .911 | 606 | 606 | 552 | .729 | 379 | 379 | 5,080 |

*For channel with holes in bottom, multiply load by .95.*
*For channel with holes in bottom and sides, multiply load by .90.*
*For extruded aluminum channel, multiply load by .33.*
*Column loads calculated in accordance with ANSI Light Gauge Cold-Formed Steel Design Manual, Section 3.6.*



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# Technical Information

## Beam Formula

For calculating deflection and maximum safe load
(Beams of uniform cross section)

**I** = Moment of inertia, in position of load, in inches 4.

**S** = Section modulus – in position of load I/n, in inches 3.

**f** = Bending stress in extreme fiber, in pounds per square inch.

**E** = Modulus of elasticity, in pounds per square inch.

**L** = Length of section, in inches.

**W** = Superimposed loads supported by beam, in pounds.

**W Max.** = Maximum safe load at point given, in pounds.

**M** = Maximum bending moment, in inch pounds.

**D, D1** = Deflections at points given, in inches.

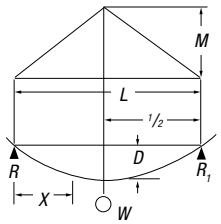
**D Max.** = Maximum deflection at point given, in inches.

## Steel and Aluminum

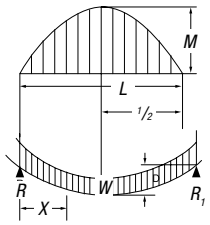
### Modulus of Elasticity (E)

Steel — 29,500,000 pounds per square inch

Aluminum — 10,000,000 pounds per square inch




***Beam supported at ends***
*Concentrated load at center*
*W max. = 4fS/L*
*D max. = WL3/48EI*

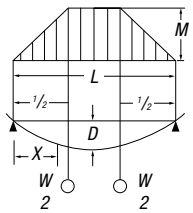



***Beam supported at ends***
*Uniformly distributed load*
*W max. = 8fS/L*
*D max. = 5WL3/384EI*

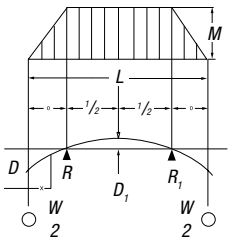
### Maximum Fiber Stress (f)

Steel — 30,000 pounds per square inch

Aluminum — 10,000 pounds per square inch




***Beam supported at ends***
*Two symmetrical concentrated loads*
*W max. = 2fS/a*
*D max. = Wa/12EI (¾L² - a²)*




***Beam continuous over two supports***
*Two exterior symmetrical loads*
*W max. = 2fS/a*
*D, distance a = Wa(3aL-4a²)/12EI*
*D1, distance L/2 - a = Wa(2-2a)²/16EI*

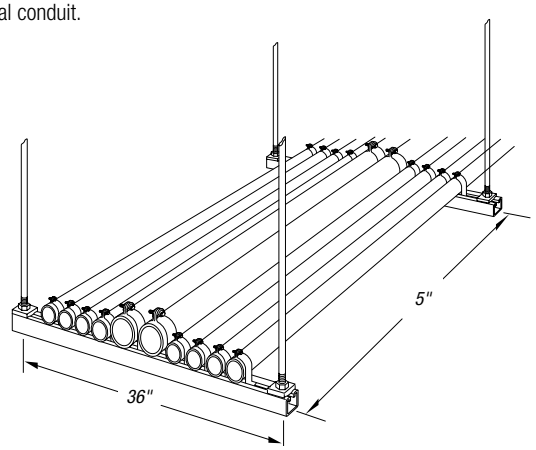
## Conclusion

Referring to the load span tables on **pages B-95–B-96** for B-905 channel, a 36-inch span has a uniformly distributed load rating of 1,133 lbs., which is greater than the 390 lb. load calculated above, and is therefore satisfactory.

On longer spans or spans with greater loads, use B-901, B-900-2A or B-905-2A channel or provide an intermediate support.

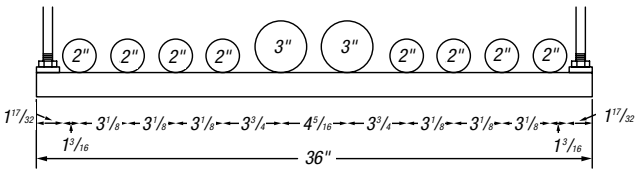
### Note on Conduit Support

The National Electrical Code® states the rigid metal conduit, intermediate metal conduit, and electrical metallic tubing shall be supported at least every 10 feet. See Article 344, Section 344.30 for exceptions for rigid metal conduit.




### Problem

Design trapeze to support 8–2" rigid steel conduits and 2–3" rigid steel conduits on a No. B-905 channel span with hangers spaced five (5) feet apart.




### Weight per Hanger Equals

2" rigid steel conduit with heaviest conductor combination = 6.625 lbs. per foot.

3" rigid steel conduit with heaviest conductor combination = 13.415 lbs. per foot.

| | | | | |
|---|---|---|---|---|
| 8 x 6.625 x 5 | = | 265 lbs. | = | weight of 2" conduits per hanger |
| 2 x 13.415 x 5 | = | 134 lbs. | = | weight of 3" conduits per hanger |
| Total | = | 399 lbs. | = | weight of conduits per hanger |

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## Conduit Spacings

Spacings in inches between centers of conduits.

The light face figures are the minimum dimensions to provide clearance between locknuts.
The more liberal spacings printed in bold face type should be used whenever possible.

| SIZE (IN.) | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | 3½ | 4 | 4½ | 5 | 6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 1 3/16 | – | – | – | – | – | – | – | – | – | – | – | – |
| | **1⅜** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** |
| ¾ | 1 5/16 | 1 7/16 | – | – | – | – | – | – | – | – | – | – | – |
| | **1½** | **1⅝** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** |
| 1 | 1½ | 1⅝ | 1¾ | – | – | – | – | – | – | – | – | – | – |
| | **1¾** | **1⅞** | **2** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** |
| 1¼ | 1¾ | 1⅞ | 2 | 2¼ | – | – | – | – | – | – | – | – | – |
| | **2** | **2⅛** | **2¼** | **2½** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** |
| 1½ | 1 15/16 | 2 1/16 | 2 3/16 | 2 7/16 | 2 9/16 | – | – | – | – | – | – | – | – |
| | **2⅛** | **2¼** | **2⅜** | **2⅝** | **2¾** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** |
| 2 | 2 3/16 | 2 5/16 | 2½ | 2¾ | 2⅞ | 3⅛ | – | – | – | – | – | – | – |
| | **2⅜** | **2½** | **2¾** | **3** | **3⅛** | **3⅜** | **–** | **–** | **–** | **–** | **–** | **–** | **–** |
| 2½ | 2 7/16 | 2 9/16 | 2¾ | 3 | 3⅛ | 3⅜ | 3⅝ | – | – | – | – | – | – |
| | **2⅝** | **2¾** | **3** | **3¼** | **3⅜** | **3⅝** | **4** | **–** | **–** | **–** | **–** | **–** | **–** |
| 3 | 2 13/16 | 2 15/16 | 3 1/16 | 3 5/16 | 3 7/16 | 3¾ | 4 | 4 5/16 | – | – | – | – | – |
| | **3** | **3⅛** | **3⅜** | **3⅝** | **3¾** | **4** | **4⅜** | **4¾** | **–** | **–** | **–** | **–** | **–** |
| 3½ | 3⅛ | 3¼ | 3⅜ | 3⅝ | 3¾ | 4 1/16 | 4 5/16 | 4⅝ | 4 15/16 | – | – | – | – |
| | **3⅜** | **3½** | **3⅝** | **3⅞** | **4** | **4⅛** | **4⅝** | **5** | **5⅛** | **–** | **–** | **–** | **–** |
| 4 | 3 7/16 | 3 9/16 | 3 11/16 | 3 15/16 | 4 1/16 | 4⅜ | 4⅝ | 4 15/16 | 5¼ | 5 9/16 | – | – | – |
| | **3¾** | **3⅞** | **4** | **4¼** | **4⅛** | **4¾** | **5** | **5⅛** | **5⅝** | **6** | **–** | **–** | **–** |
| 4½ | 3¾ | 3⅞ | 4 | 4¼ | 4⅜ | 4⅝ | 4⅞ | 5¼ | 5 9/16 | 5⅞ | 6⅛ | – | – |
| | **4** | **4⅛** | **4¼** | **4½** | **4¾** | **5** | **5¼** | **5⅝** | **6** | **6¼** | **6½** | **–** | **–** |
| 5 | 4⅛ | 4¼ | 4⅜ | 4⅝ | 4¾ | 5 | 5¼ | 5 9/16 | 5⅞ | 6 3/16 | 6½ | 6 13/16 | – |
| | **4⅜** | **4½** | **4⅝** | **4⅞** | **5** | **5⅜** | **5⅝** | **6** | **6¼** | **6⅝** | **7** | **7¼** | **–** |
| 6 | 4¾ | 4⅞ | 5 | 5¼ | 5⅜ | 5⅝ | 5⅞ | 6 3/16 | 6½ | 6 13/16 | 7⅛ | 7 7/16 | 8⅛ |
| | **5** | **5⅛** | **5¼** | **5½** | **5⅝** | **6** | **6¼** | **6⅝** | **7** | **7¼** | **7⅝** | **8** | **8⅝** |



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# Technical Information

## Pipe Data



| TRADE SIZE (IN.) | RIGID CONDUIT – ALUMINUM AND STEEL | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | NOMINAL OUTSIDE DIAMETER (IN. PER UL-6) | | OUTSIDE DIAMETER OF COUPLING (IN. PER UL-6) | | WEIGHT OF CONDUIT (LBS. PER FT.) | | MAX. WEIGHT OF CONDUIT AND CONDUCTOR (LBS. PER FOOT) NOT LEAD COVERED | |
| | STEEL | ALUM. | STEEL | ALUM. | STEEL | ALUM. | STEEL | ALUM. |
| ½ | .840 | .840 | 1.010 | 1.078 | .790 | .274 | 1.040 | .524 |
| ¾ | 1.050 | 1.050 | 1.250 | 1.328 | 1.050 | .364 | 1.760 | 1.074 |
| 1 | 1.315 | 1.315 | 1.525 | 1.563 | 1.530 | .530 | 2.695 | 1.695 |
| 1¼ | 1.660 | 1.660 | 1.869 | 1.953 | 2.010 | .696 | 3.975 | 2.661 |
| 1½ | 1.900 | 1.900 | 2.155 | 2.219 | 2.490 | .822 | 5.000 | 3.332 |
| 2 | 2.375 | 2.375 | 2.650 | 2.750 | 3.320 | 1.157 | 6.625 | 4.462 |
| 2½ | 2.875 | 2.875 | 3.250 | 3.281 | 5.270 | 1.825 | 9.460 | 6.015 |
| 3 | 3.500 | 3.500 | 3.870 | 3.812 | 6.830 | 2.389 | 13.415 | 8.974 |
| 3½ | 4.000 | 4.000 | 4.500 | 4.438 | 8.310 | 2.877 | 16.690 | 11.257 |
| 4 | 4.500 | 4.500 | 4.875 | 5.000 | 9.720 | 3.400 | 20.410 | 14.090 |
| 5 | 5.563 | 5.563 | 6.000 | 6.219 | 13.140 | 4.654 | 29.350 | 20.864 |
| 6 | 6.625 | 6.625 | 7.200 | 7.313 | 17.450 | 6.120 | 41.910 | 30.580 |

| TRADE SIZE (IN.) | INTERMEDIATE METAL CONDUIT (IMC) | | | | THINWALL CONDUIT (EMT) PER UL-797 | | |
|---|---|---|---|---|---|---|---|
| | NOMINAL OUTSIDE DIAMETER (IN. PER UL) | OUTSIDE DIAMETER OF COUPLING (IN. PER UL) | WEIGHT OF CONDUIT (LBS. PER FOOT) | MAX. WEIGHT OF CONDUIT AND CONDUCTOR (LBS. PER FT.) | NOMINAL OUTSIDE DIAMETER (IN.) | WEIGHT OF EMT (LBS. PER FT.) | MAX. WEIGHT OF EMT AND CONDUCTOR (LBS. PER FT.) |
| ½ | .815 | 1.010 | .6 | .850 | .706 | .285 | .538 |
| ¾ | 1.029 | 1.250 | .8 | 1.530 | .922 | .435 | 1.160 |
| 1 | 1.290 | 1.525 | 1.1 | 2.325 | 1.163 | .640 | 1.825 |
| 1¼ | 1.638 | 1.869 | 1.5 | 3.465 | 1.510 | .950 | 2.950 |
| 1½ | 1.883 | 2.155 | 1.8 | 4.330 | 1.740 | 1.100 | 3.674 |
| 2 | 2.360 | 2.650 | 2.4 | 5.725 | 2.197 | 1.400 | 4.436 |
| 2½ | 2.857 | 3.250 | 4.2 | 8.470 | 2.875 | 2.050 | 6.400 |
| 3 | 3.476 | 3.870 | 5.2 | 11.845 | 3.500 | 2.500 | 9.262 |
| 3½ | 3.971 | 4.500 | 6.1 | 14.500 | 4.000 | 3.400 | 12.100 |
| 4 | 4.466 | 4.875 | 6.8 | 17.510 | 4.500 | 3.700 | 15.355 |

## Column Loading-Structure Channel
## Maximum Load in Pounds — Column Loading

| COLUMN HEIGHT (FT.) | TYPE OF CHANNEL | MAX COLUMN LOADING (LBS.) | NUMBER OF TIERS OR BRACES PER COLUMN | | | | |
|---|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 | 5 |
| | B-900 | 8,625 | 2,590 | | | | |
| 1 | B-900-2A | 17,400 | 4,450 | | | | |
| | B-906 | 4,170 | 1,280 | | | | |
| | B-906-2A | 8,570 | 2,160 | | | | |
| | B-900 | 7,900 | 2,520 | 2,000 | | | |
| 2 | B-900-2A | 16,500 | 4,400 | 3,650 | | | |
| | B-906 | 3,450 | 1,200 | 980 | | | |
| | B-906-2A | 7,840 | 2,100 | 1,720 | | | |
| | B-900 | 6,960 | 2,420 | 1,960 | 1,780 | | |
| 3 | B-900-2A | 15,000 | 4,300 | 3,520 | 2,960 | | |
| | B-906 | 2,250 | 1,015 | 950 | 795 | | |
| | B-906-2A | 6,680 | 2,020 | 1,700 | 1,435 | | |
| | B-900 | 5,970 | 2,280 | 1,910 | 1,640 | 1,360 | |
| 4 | B-900-2A | 13,095 | 4,100 | 3,480 | 2,930 | 2,520 | |
| | B-906 | 1,270 | 755 | 895 | 775 | 670 | |
| | B-906-2A | 4,980 | 1,830 | 1,660 | 1,420 | 1,230 | |
| | B-900 | 5,055 | 2,140 | 1,850 | 1,560 | 1,340 | 1,180 |
| 5 | B-900-2A | 11,490 | 3,950 | 3,420 | 2,900 | 2,500 | 2,210 |
| | B-906 | | | 830 | 745 | 650 | 575 |
| | B-906-2A | 3,340 | 1,550 | 1,610 | 1,400 | 1,215 | 1,075 |

| COLUMN HEIGHT (FT.) | TYPE OF CHANNEL | MAX COLUMN LOADING (LBS.) | NUMBER OF TIERS OR BRACES PER COLUMN | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 6 | B-900-2A | 9,990 | 3,750 | 3,340 | 2,870 | 2,480 | 2,190 | 1,960 | | | | |
| | B-906 | | | 700 | 710 | 635 | 565 | 505 | | | | |
| | B-906-2A | 2,170 | 1,240 | 1,550 | 1,370 | 1,205 | 1,065 | 955 | | | | |
| | B-900 | 3,645 | 1,840 | 1,720 | 1,490 | 1,310 | 1,140 | 1,025 | 925 | | | |
| 7 | B-900-2A | 8,715 | 3,550 | 3,240 | 2,820 | 2,470 | 2,170 | 1,945 | 1,760 | | | |
| | B-906 | | | 520 | 635 | 610 | 550 | 495 | 450 | | | |
| | B-906-2A | | | 1,450 | 1,330 | 1,180 | 1,050 | 945 | 860 | | | |
| | B-900 | 3,045 | 1,670 | 1,650 | 1,460 | 1,290 | 1,130 | 1,015 | 920 | 835 | | |
| 8 | B-900-2A | 7,395 | 3,180 | 3,140 | 2,780 | 2,450 | 2,160 | 1,930 | 1,750 | 1,600 | | |
| | B-906 | | | 470 | 605 | 590 | 535 | 490 | 445 | 410 | | |
| | B-906-2A | | | 1,330 | 1,290 | 1,160 | 1,040 | 935 | 850 | 780 | | |
| | B-900 | 2,580 | 1,520 | 1,570 | 1,430 | 1,260 | 1,120 | 1,000 | 905 | 825 | 760 | |
| 9 | B-900-2A | 6,190 | 3,030 | 3,040 | 2,730 | 2,420 | 2,140 | 1,920 | 1,745 | 1,595 | 1,465 | |
| | B-906 | | | 130 | 535 | 555 | 525 | 485 | 435 | 400 | 370 | |
| | B-906-2A | | | 1,200 | 1,250 | 1,150 | 1,020 | 930 | 840 | 775 | 715 | |
| | B-900 | 2,100 | 1,340 | 1,500 | 1,380 | 1,230 | 1,110 | 990 | 900 | 820 | 755 | 700 |
| 10 | B-900-2A | 5,580 | 2,900 | 2,940 | 2,665 | 2,380 | 2,135 | 1,910 | 1,730 | 1,580 | 1,460 | 1,350 |
| | B-906 | | | | 470 | 520 | 500 | 465 | 430 | 395 | 365 | 340 |
| | B-906-2A | | | 1,160 | 1,190 | 1,120 | 1,010 | 915 | 835 | 770 | 710 | 660 |

*This table recognizes eccentricity on the column caused by usual connections.*



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## Examples for Using the Continuous Run Load Chart for Channel

### Example Number 1

A total load of 500 lbs. is to be supported in an evenly distributed manner over a distance of 28 feet with the maximum deflection being not greater than 1/240 of the span between the supports.

Which Kindorf® channel should be used and how many supports are needed? On the chart, find the point of intersection for a total load of 500 lbs. and a total run of 28 feet.

Pick the next graph line vertically above this point. This B-900 or G-975 with 4 supports (4B) evenly spaced. By reading horizontally to the left from this point, it can be seen that up to 565 lbs. can be supported on B-900, (G-975) under these conditions and still maintain a deflection of 1/240 of the span.

### Example Number 2

Four foot fixtures weighing 30 lbs. each are to be attached to a channel suspended from a ceiling in a continuous 20-foot run and maintain a deflection of less than 1/240 of the span between the supports.

Which Kindorf channel should be used and how many supports are needed?

$$\text{Number of fixtures} = \frac{20 \text{ ft.}}{4 \text{ ft./fixture}} = 5 \text{ fixtures}$$

$$\text{Total Load} = 5 \text{ fixtures} \times \frac{30 \text{ lbs.}}{\text{fixture}} = 150 \text{ lbs.}$$

On the chart, find the point of intersection for a total load of 150 lbs. and a total run of 20 feet.

Pick the next graph line vertically above this point. This is B-900-M (G-975-M) with 3 supports (3A) – one support on each end and one in the center of the run.

### Example Number 3

A 20-foot run of B-901 or G-965 is supported by 3 hangers, one on each end and one in the center. How much evenly distributed weight can this system support and maintain a maximum deflection of 1/240 of the span between the supports?

On the chart, find the point of the intersection for a total run of 20 feet and the graph line for B-901 (G-965) with 3 supports (3C).

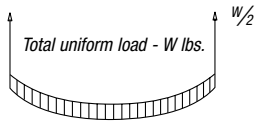
From this point, read horizontally to the left to find the total uniform load of 690 lbs. on the vertical scale.

### Selection of Hanger Rods

| USE H-193-3/8 OR 'R' SERIES HANGER ROD FOR | IF THE TOTAL UNIFORM LOAD IS | USE H-193-1/2 OR 'R' SERIES HANGER ROD FOR | IF THE TOTAL UNIFORM LOAD IS BETWEEN |
|---|---|---|---|
| *2 supports* | *1220 lbs. or less* | *2 supports* | *1220 lbs. and 2260 lbs.* |
| *3 supports* | *975 lbs. or less* | *3 supports* | *975 lbs. and 1810 lbs.* |
| *4 supports* | *1665 lbs. or less* | *4 supports* | *1665 lbs. and 3080 lbs.* |

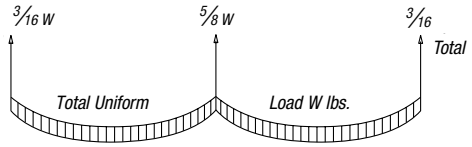
## Load Distribution on Hanger Rods

### 2 Supports




Example – If the total uniformly distributed load W is 1,000 lbs., each hanger must be capable of supporting half of the load or 500 lbs. Therefore, H-193-3/8 or c 'R' series hanger rod would be sufficient to support this load.

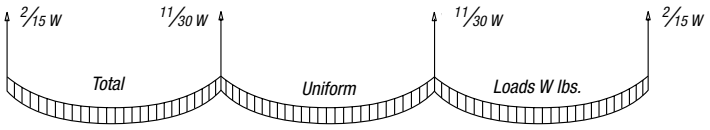
### 3 Supports




Total Uniform Load W lbs.
Maximum Safe Load - H-193-3/8 or 'R' Series - 610 lbs.
per hanger rod H-193-1/2 or 'R' Series - 1130 lbs.

Example – If the total uniformly distributed load W is 1,000 lbs., the load is distributed to each support in the following manner: 187d lbs. to each end support and 625 lbs. to the center support. In this case, the maximum load to be supported is 625 lbs., which exceeds the recommended safe load of 610 lbs. for H-193-3/8 hanger rod., therefore H-193-1/2, or d 'R' series supports should be used.

### 4 Supports




Example – If the total uniformly distributed load W is 1,000 lbs., the load is distributed to each support in the following manner: 133 lbs. to each end support and 367 lbs. to each inner support. Therefore, H-193-3/8, or c 'R' series hanger rod would be sufficient to support this load.

# Kindorf® Channel Bars — Load Deflection Charts

## Concentrated Center Loads

| CAT. NO. | BEAM SPAN (IN.) | LOAD AT 25,000 PSI STRESS (LBS.) | DDEFLECTION AT 25,000 PSI STRESS (LBS.) | LOAD AT MAX. DEFLECTION OF 1/240 SPAN (LBS.) |
|---|---|---|---|---|
| **6013** | 12 | 55 | .038 | 55 |
| **6014** | | 34 | .048 | 34 |
| **6029** | | 180 | .023 | 180 |
| **6029-H** | | 175 | .024 | 175 |
| **6013** | 24 | 27 | .153 | 18 |
| **6014** | | 17 | .192 | 9 |
| **6029** | | 89 | .093 | 89 |
| **6029-H** | | 87 | .095 | 87 |
| **6013** | 36 | 18 | .345 | 8 |
| **6014** | | 11 | .433 | 4 |
| **6029** | | 59 | .208 | 42 |
| **6029-H** | | 57 | .213 | 40 |
| **6013** | 48 | 13 | .615 | 4 |
| **6014** | | 8 | .773 | 2 |
| **6029** | | 43 | .367 | 23 |
| **6029-H** | | 42 | .375 | 22 |
| **6013** | 60 | 11 | .963 | 2 |
| **6014** | | 6 | 1.216 | 1 |
| **6029** | | 34 | .550 | 14 |
| **6029-H** | | 33 | .581 | 13 |

*Loads for lengths greater than 60" spans are available on request.*

## Uniformly Distributed Loads

| CAT. NO. | BEAM SPAN (IN.) | LOAD AT 25,000 PSI STRESS (LBS.) | DDEFLECTION AT 25,000 PSI STRESS (LBS.) | LOAD AT MAX. DEFLECTION OF 1/240 SPAN (LBS.) |
|---|---|---|---|---|
| **6013** | 12 | 110 | .049 | 110 |
| **6014** | | 68 | .060 | 57 |
| **6029** | | 361 | .029 | 361 |
| **6029-H** | | 350 | .030 | 350 |
| **6013** | 24 | 55 | .194 | 28 |
| **6014** | | 34 | .238 | 14 |
| **6029** | | 180 | .117 | 154 |
| **6029-H** | | 174 | .119 | 146 |
| **6013** | 36 | 36 | .437 | 12 |
| **6014** | | 22 | .536 | 6 |
| **6029** | | 119 | .263 | 67 |
| **6029-H** | | 115 | .268 | 64 |
| **6013** | 48 | 27 | .776 | 6 |
| **6014** | | 16 | .953 | 3 |
| **6029** | | 88 | .467 | 37 |
| **6029-H** | | 86 | .477 | 35 |
| **6013** | 60 | 21 | 1.213 | 4 |
| **6014** | | 13 | 1.490 | 1 |
| **6029** | | 70 | .729 | 22 |
| **6029-H** | | 68 | .746 | 21 |

*Loads are rounded off to the nearest pound in all cases.*



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# Technical Information

## To Select Proper Channel

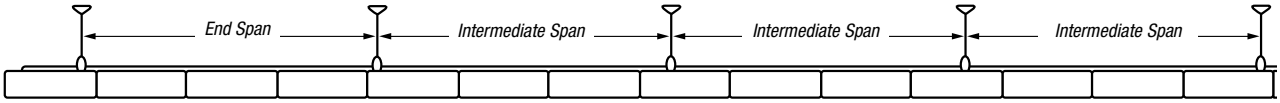



*Figure 1 — Long Continuous Run*

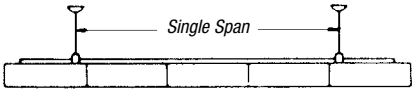



*Figure 2 — Single Span*

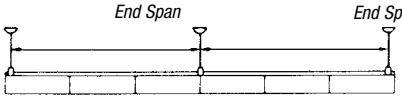



*Figure 3 — Double Span*

The hanger spacing is often determined by the type of building construction. The deflection then will determine the proper channel since this deflection should not exceed 1/240 of the span.

To estimate the deflection at the center of an intermediate span in long continuous runs (**Figure 1**), multiply the weight of a single fixture times the applicable deflection constant (from table). This deflection also applies to the end span in Figure 1 and the single span in **Figure 2** if the dimension "C" is between ¼ and ⅓ of the length of the span. If a cantilever does not exist as in the double span (**Figure 3**), the deflection of end spans (**Figure 3**) will be doubled.

### Deflection Constants for Continuous Run, 4-Foot Fixtures*

| SPAN FEET | B-906 G-956 | B-900-M G-975-M | G-953 | B-900 G-975 | B-901 G-950, G-965 | B-900-2A | B-902 G-955 |
|---|---|---|---|---|---|---|---|
| 6 | .004 | .000 | .000 | .000 | .000 | .000 | .000 |
| 8 | .009 | .002 | .001 | .000 | .000 | .000 | .000 |
| 10 | — | .005 | .004 | .003 | .001 | .000 | .000 |
| 12 | — | .010 | .007 | .006 | .004 | .001 | .001 |
| 14 | — | — | — | .012 | .007 | .002 | .002 |
| 16 | — | — | — | .020 | .011 | .004 | .004 |
| 18 | — | — | — | — | .018 | .007 | .006 |
| 20 | — | — | — | — | — | .010 | .009 |

** For 8-foot fixtures reduce the deflection constant by 50%. This table is for normal weight fixtures — the constant ".000" infers negligible deflection.*

*A long, continuous run of 30 lb. 4-foot fixtures on G-975 channel is supported on 12' centers. The deflection at the center of an intermediate span will be the deflection constant (.006) times the fixture weight (30 lbs.) or .18 inches.*

# Suggested Kindorf® Specifications

**I.** For purposes of designating type and quality for work in this section, drawings and specifications are based upon products of standard Kindorf® product drawings. Whenever substitute products are to be considered, supporting technical literature, samples, drawings, and certified performance data must be submitted in order to make a valid comparison of products involved.

## II. Materials

Steel channel sections shall be rolled from AISI 1008 commercial grade steel and be in conformance with ASTM A569-72.

Aluminum channel sections shall be extruded from 6063-T6 aluminum alloy and be in conformance with ASTM-B221-80.

## III. Construction

### A. Channel and Accessories for Support Systems.

The cross sectional width dimension of the channel shall be a minimum of 1½". The depth will be as required to satisfy the load requirements. Channel with 1½" depth or greater shall be rolled from Manufacturing Std. 12 gauge steel. Channel smaller than 1½" may be Manufacturing Std. 14 gauge.

Attachment holes, when required, shall be factory punched on hole centers equal to the channel cross sectional width dimension and shall be a maximum of 9⁄16" in diameter.

Channel attachment nuts shall be designed to prelocate in the channel and provide a bearing surface on the turned down lips while making positive contact with the side walls of the channel.

Straps for the support of conduit shall be designed such that the attachment nut is captivated on the shoulder of the strap when tightened, and the attachment bolt will allow tightening by either a slot-head screwdriver or wrench.

All nuts, bolts, straps, threaded rod and edges of punched holes shall be protected with the same finish as the channel as described in the FINISH section of this specification.

### B. Channel and Accessories for Surface Raceway Systems.

Fluorescent fixtures, as designated on the drawings and according to the fixture schedule, shall be supported and supplied through a combination raceway and support system.

The cross sectional width dimension of the channel shall be a minimum of 1½". The depth will be as required to satisfy the load and wire carrying requirements.

The supporting channel shall have ½" diameter knockouts on 6" centers to accommodate ½" conduit fittings, and be listed by Underwriters' Laboratories Inc. as complying with Std. UL-5 for use as surface raceway and support for electric discharge type lighting fixture. The channel must also provide for ground continuity.

The combination raceway and support system shall be complete with channel joiners, end caps, closure strips, hangers, wiring entrance and all necessary fittings for electrical and mechanical connections.

When splicing or joining raceway channel at 90 degree angles, the joiners shall be designed such that they are concealed and fastened to the inside surface of the channel. Joiners shall be listed by Underwriters' Laboratories Inc. and allow wires to be directly laid in place.

All channel and fittings, including threaded components, shall be protected against corrosion as outlined in the finish section of this specification.

Installation of the system shall be in accordance with the National Electrical Code®, NFPA 70 and ANSI C1.

## IV. Galv-Krom® Trivalent Finish

The finish on steel components shall consist of a combination of .0005 inch electrogalvanizing on steel in accordance with ASTM B633-78 Type LS coating and a gold Trivalent barrier formed on the zinc. This coating shall be applied after factory fabrication of the material.

When tested in accordance with ASTM B117-73 procedure, there shall be no sign of red rust after 1,000 hours of testing. Certified test results to support this must be submitted upon request.

**Warning:** Load tables, charts and design criteria provided in this catalog are intended as guides only. Selection of proper product, installation intervals, erection and placement are the responsibility of the user.

Kindorf® products are intended to be used for the support and bracing of fixtures, cable, pipe and conduit. Improper use or installation may result in injury to persons or damage of property.

Material and finish specifications are subject to change without notice.

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*



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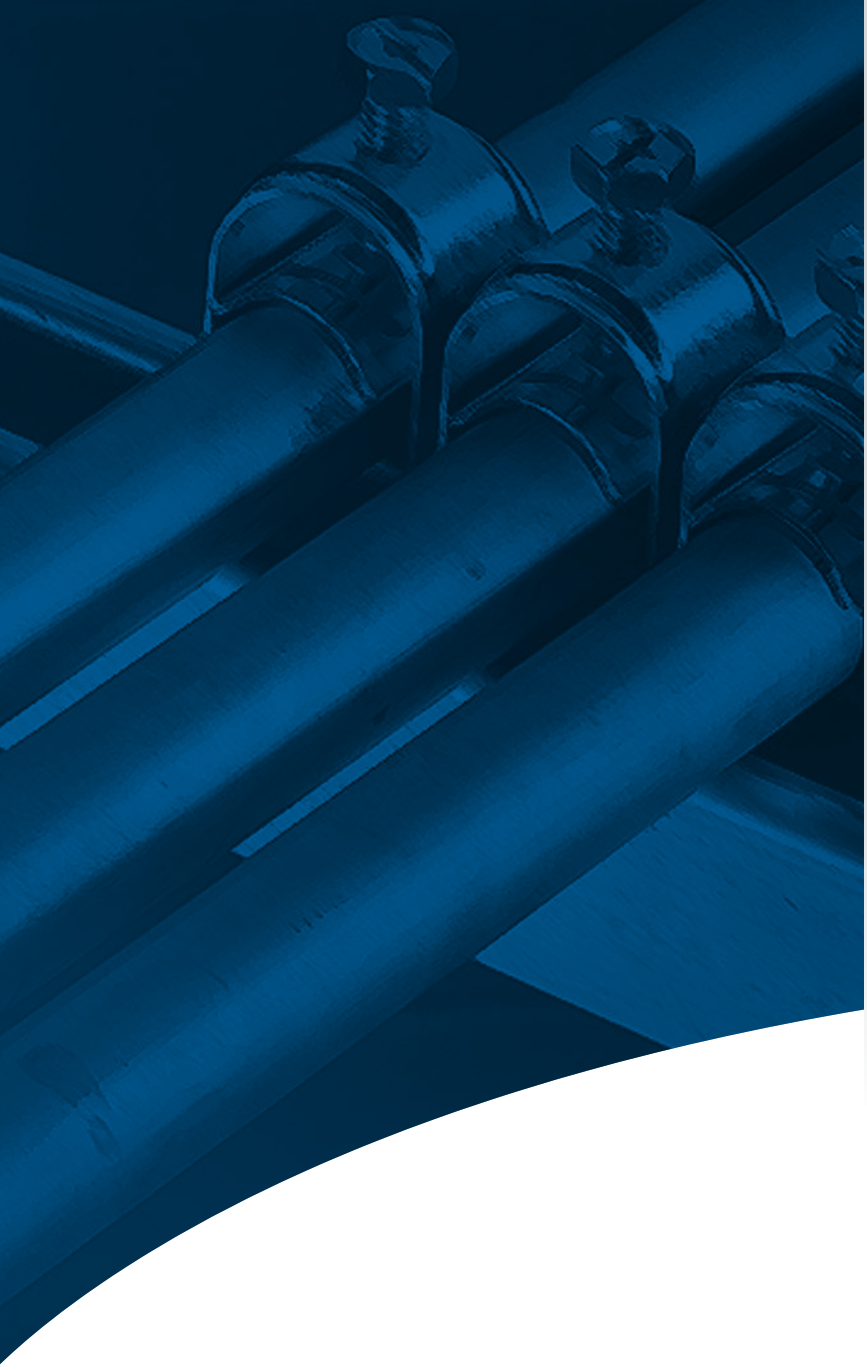
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Superstrut®

# Superstrut® Metal Framing System



In this section...



## Superstrut® Metal Framing System


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Fittings and Brackets ..... B-118–B-125
Concrete Inserts ..... B-126–B-127
Beam Clamps ..... B-128–B-135
Pipe Straps, Conduit Clamps and Hangers ..... B-136–B-182
Surface Raceway and Lighting Systems ..... B-183–B-187
Slotted Angle Metal Framing ..... B-188–B-189
Special Metals and Finishes ..... B-190–B-198
Technical Information ..... B-199–B-220


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## Overview




## New Trivalent GoldGalv® Finish Is RoHS Compliant



Thomas & Betts is proud to introduce the new and improved Trivalent GoldGalv® finish. GoldGalv® finish is a combination of .5 mils electro-plated zinc and a gold Trivalent Chromium finish.

- Gold Trivalent Chromium Finish — The new GoldGalv® finish features a Trivalent Chromium formulation that provides all the features and protection of Hexavalent Chromium (CR VI) without the use of this chemical compound. Hexavalent Chromium is restricted by some standards such as the European Union directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS).
- RoHS Compliant — One great feature for the new Trivalent Chromium formulation is RoHS compliance. Because Hexavalent Chromium is a substance that is restricted by RoHS, moving away from a Hexavalent formulation to the new Trivalent formulation will make the performance of GoldGalv® coating available to customers affected by RoHS and other standards like RoHS around the world.
- Trivalent GoldGalv® Finish Is OSHA Safe — The Hexavalent formulation of the GoldGalv® finish is safe with regard to the revised 2006 OSHA standard. This new Trivalent formulation of the GoldGalv® finish does not contain any Hexavalent Chromium and therefore does not fall under the scope of the OSHA standard at all. As a result, the new Trivalent GoldGalv® finish, just like the Hexavalent GoldGalv® finish, is OSHA compliant.
- ASTM B633 Specification — The improved GoldGalv® finish is applied in compliance with ASTM B633 coating, the same standard as used previously. This standard outlines electro-deposited coatings of zinc on steel.

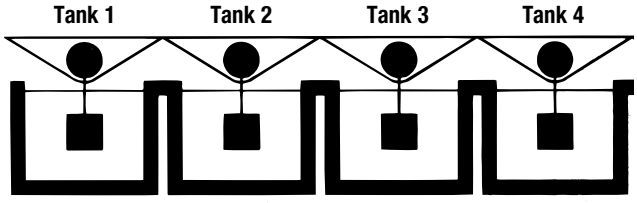
## Overview

### Finishes

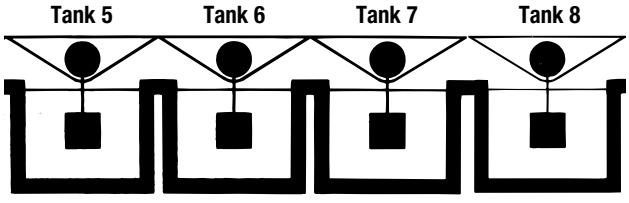
## GoldGalv®

The standard GoldGalv® finish is made up of a multi-step zinc electrogalvanizing process. The Trivalent Chromium finish is applied over the zinc, producing a chemically bonded non-porous barrier for protection from moisture and air. The .5 mil electro-plated zinc and gold Trivalent Chromium finish provides all of the features and protection of Hexavalent Chromium without the use of the chemical.

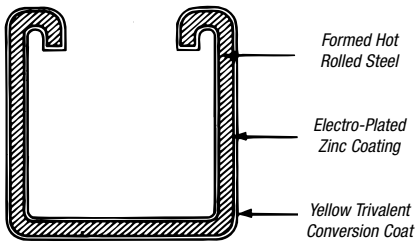


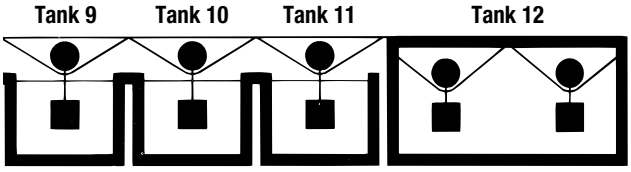


| Tank 1 | Tank 2 | Tank 3 | Tank 4 |
|---|---|---|---|
| **"Soak Degreasing"** | **"Electro Cleaner"** | **"Rinse"** | **"Sulfuric Acid Bath"** |
| Chemical solution removes bulk of oil and grease buildup. | The metal is negatively charged to remove minute surface particles. | Live, clear water rinse. | Prepares the metal by etching the surface for the zinc application. |

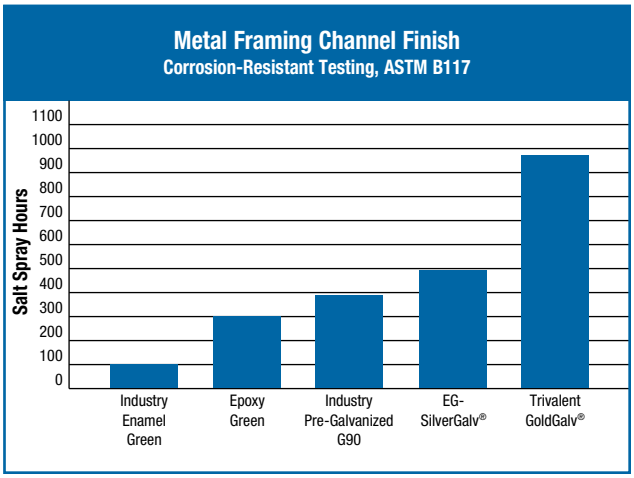


| Tank 5 | Tank 6 | Tank 7 | Tank 8 |
|---|---|---|---|
| **"Rinse"** | **"Zinc Tank"** | **"Rinse"** | **"Rinse"** |
| Live, clear water rinse. | Electrically applies the zinc metal coating. | Chemically treated rinse water. | Live, clear water rinse. |



| Tank 9 | Tank 10 | Tank 11 | Tank 12 |
|---|---|---|---|
| **"Rinse"** | **"Chromium Dip"** | **"Rinse"** | **"Dryer"** |
| Live, clear water rinse. | A yellow trivalent conversion coat is applied to the zinc. | Live, clear water rinse. | Hot air is forced around strut until dry. |



## Overview

# Outperforms the Competition

## Superstrut® SilverGalv®

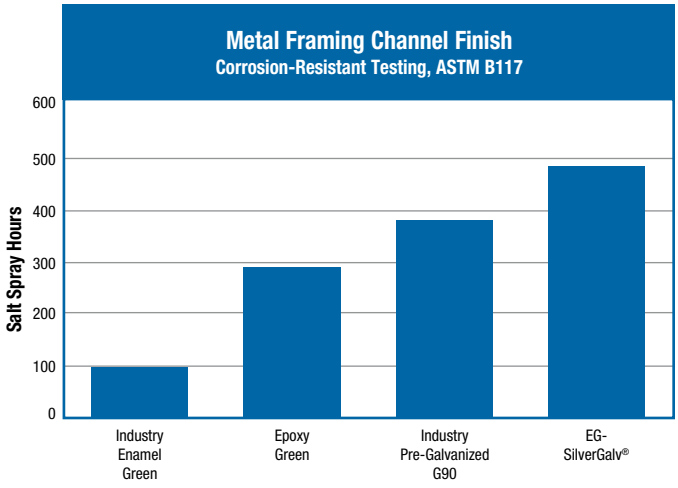
The Superstrut® SilverGalv® finish is a post-fabrication, 12-step electrogalvanizing process that applies a clear conversion coat over .5 mils of zinc. This process provides a strong, cohesive molecular bond that locks out moisture and superior corrosion resistance over standard G90 pre-galvanized channel.

- **No More White Rust** — With pre-galvanized struts, a common quality issue is the formation of white rust on the zinc finish. With SilverGalv®, a clear conversion coat is applied over the zinc to seal it and stop the formation of white rust.
- **Strong Abrasion Resistance** — The SilverGalv® finish won't chip or peel like a green painted strut product. It stands up to rough handling.
- **Superior Corrosion Protection** — One hallmark of the SilverGalv® finish is the superior corrosion protection it provides. In the ASTM B117 salt spray test, the new SilverGalv® finish provided improved protection as compared to painted finishes or G90 Pre-Galvanized. This outstanding corrosion protection means more versatile installations and more service life for SilverGalv® finished products.
- **Punched Holes and Cut Ends Are Protected** — Unlike a pre-galvanized finish where bare steel holes and cuts have no corrosion protection, SilverGalv® protects every portion of the strut. Because the SilverGalv® finish is applied after fabrication, all punched holes and cut ends share a consistent quality with the rest of the material — even after cutting or fabricating. SilverGalv® will continue to protect with it's sacrificial zinc process.
- **Paintable Surface** — The new SilverGalv® finish provides a non-porous and non-crystalline surface. Not only does this feature provide enhanced corrosion protection, but also provides an excellent bond for the paint of your choice.
- **Clean Finish** — SilverGalv® ensures a finished product that leaves no residue on your hands. In the SilverGalv® process, a zinc finish is applied after fabrication. As a result, all of the oil and grime that accumulates during manufacturing gets thoroughly cleaned off during the plating process.
- **Great Electrical Conductivity** — Unlike paint or enamel, the SilverGalv® surface offers a minimum of electrical resistance, so electrical applications are easily grounded when grounding is needed.




### Complete Offering of SilverGalv® Fittings and Accessories

Mismatched strut assemblies are a thing of the past with Superstrut SilverGalv. With a complete line of channel, hardware, fittings, hangers and pipe straps, all components have the same electrogalvanized finish for consistent performance and uniform aesthetics.






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## Finishes *(continued)*

### GoldGalv®

The standard GoldGalv® finish is made up of a multi-step electrogalvanizing and zinc trivalent chromium process. The trivalent chromium finish is applied over the zinc, producing a chemically bonded non-porous barrier for protection from moisture and air. The .5 mil electro-plated zinc and gold trivalent chromium finish provides all of the features and protection of hexavalent chromium without the use of the chemical.

### SilverGalv® (Suffix EG)

Often referred to as "zinc plated" or "electroplated zinc," the steel and .5 mils of zinc are bonded by an electrolysis process. This is the identical process used in the Superstrut Goldgalv® finish without the numerous benefits of the gold-colored trivalent chromium conversion coat (see GoldGalv® finish for more information). Electrogalvanizing is most commonly applied to small fittings, hardware and threaded products.

### Green or White Urethane Powder Coated (Suffix GR or WH)

Urethane powder resins are applied electrostatically to the steel after fabrication. Once the material is completely covered with the powder-form urethane, it proceeds through a 400˚ baking process for ten minutes, creating a chemical bond. This results in a minimum of 1.5 mil thickness of urethane coating, providing excellent resistance to chipping or peeling.

### Pregalvanized (Suffix PG)

A zinc coating is applied by hot-dipping the steel coil at the mill prior to fabrication. Once the material is worked by roll-forming, cutting or punching, minimal protection is provided for raw edges. This weakness is typical with precoated material and affects the channel section around holes, extreme ends and the edges of the "U" shape lips. Superstrut pregalvanized material is in conformance with ASTM A-525/G-90 specification standards, representing 0.90 ounces of zinc per square foot of steel. This finish is often referred to as "hot-dipped mill galvanized" or "mill galvanized."

### Hot-Dipped Galvanized (Suffix HDG)

The material is zinc coated after fabrication, providing total product protection on all surfaces. The fabricated channel or fitting is suspended and then dipped into tanks of hot zinc for a prolonged period, creating a coherent bond. The result is superior corrosion resistance as compared to pregalvanized material. Hot-dipped galvanizing is not recommended for threaded products, because the thickness of the zinc coating will often disrupt the threads. Superstrut hot-dipped galvanized is in conformance with ASTM Specifications A-123 (formerly A-386) and A-153. Superstrut channels maintain a minimum 1.5 ounces of zinc per square foot of steel or 2.5 mils (ASTM A-123, Thickness Grade 65). This finish is also referred to as "hot-dipped galvanized after fabrication."

### PVC Coated (Suffix PVC)

A polyvinyl chloride (PVC) plastic coating is fused to the channel, fitting or accessory after fabrication by immersing the part in fluidized PVC tanks. The fused-melt mixed powder PVC coating thickness is 15 mils (.015") plus or minus five mils. PVC material is a thermoplastic and will soften in high temperature. An inherent weakness with PVC coatings occurs when field alterations are applied, such as cutting or drilling. These acts disrupt the sealed PVC product and warrant field touch-up. Thomas & Betts cannot be held responsible for field-altered PVC coated products.

### Copper Plated ("T" inserted as the second digit of the part number; Example: CTL-710-2)

Plain steel proceeds through a series of rinse tanks to clean the material surface. Once cleaned, the fabricated part is etched by dipping into an acid pickle bath to prepare the surface for adhesion. Copper is electrically applied by submerging in a copper bath. To seal the finish, the product continues to a sealer tank and is then dried by forced hot air.

### Black (Suffix B)

A black finish is raw steel with only a light oil finish as supplied by the steel manufacturer. There is no protection against red rust.

### Stainless Steel (Suffix SS)

Superstrut channel is supplied in type 304 stainless steel when required. Type 316 stainless steel may be available upon request.

### Aluminum (Suffix AL)

Superstrut channel and hardware are available in aluminum.

**Warning:** Load tables, charts and design criteria provided in this catalog are intended as guides only. Selection of proper product, installation intervals, erection and placement are the responsibility of the user.

Superstrut® products are intended to be used for the support and bracing of fixtures, cable, pipe and conduit. Improper use or installation may result in injury to persons or damage of property.

Material and finish specifications are subject to change without notice.



## Channels

# Standard Channels



### Material

Channels are cold formed from hot-rolled pickled and oiled strip steel.

### Material Thickness

| | |
|---|---|
| All Series 1200 | 12 gauge material |
| All Series 1400 | 14 gauge material |

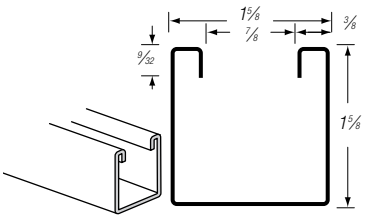
### Standard Lengths

Standard lengths for channel are 10 ft. and 20 ft.

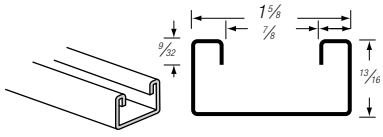
Standard length tolerance ± ⅛".

Shorter lengths are available at a small cutting charge.

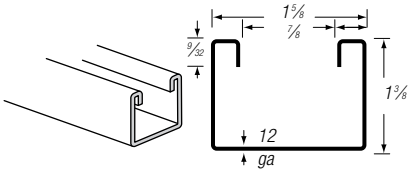
GoldGalv® hardware finish is standard for all Superstrut products. This is a multi-process finish of electro-plated zinc, followed by gold colored trivalent chromium to give excellent corrosion resistance and superior paint base. See **pages B-106–B-107** for a complete description of the GoldGalv® hardware finish. GoldGalv® hardware will be furnished if no other finish is specified.



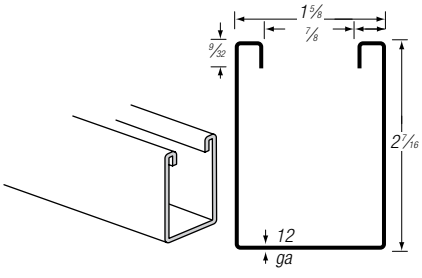

***A-1200***
*Channel available in Solid, Half Slot, Punched, Slotted and Knockout configurations.*
*Wt./Ft. 1.90 lbs.*



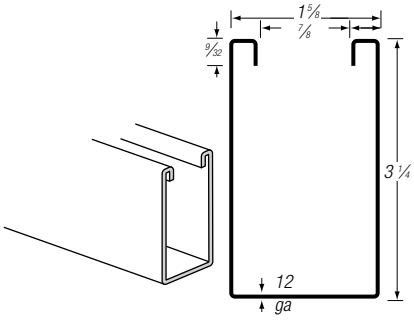

***B-1200***
*Channel available in Solid, Half Slot, Punched and Slotted configurations.*
*Wt./Ft. 1.28 lbs.*



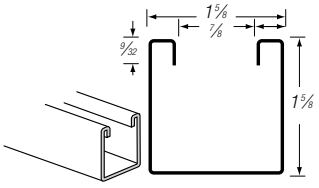

***C-1200***
*Channel available in Solid, Half Slot and Punched configurations.*
*Wt./Ft. 1.70 lbs.*



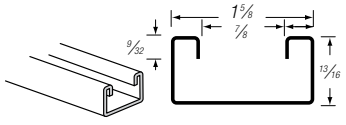

***E-1200***
*Channel available in Solid, Half Slot and Punched configurations.*
*Wt./Ft. 2.47 lbs.*




***H-1200***
*Channel available in Solid, Half Slot and Punched configurations.*
*Wt./Ft. 3.05 lbs.*




***A-1400***
*Channel available in Solid, Half Slot, Punched, Slotted and Knockout configurations.*
*Wt./Ft. 1.40 lbs.*




***B-1400***
*Channel available in Solid, Half Slot, Punched and Slotted configurations.*
*Wt./Ft. 0.90 lbs.*



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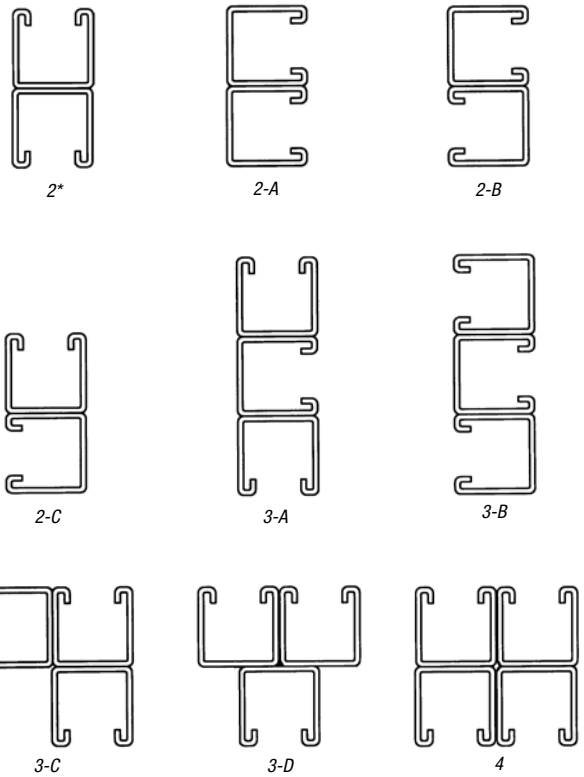
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## Superstrut® Channels — Welding Combinations

All Superstrut® Channels are available in a variety of combinations — some are shown here.

Multiple channels are spot welded on 3" centers.




### How to Order

10 and 20 ft. lengths — steel. Special lengths may be ordered.

Replace the 3 last digits of the regular channel catalog number with the designation of the desired combination.

### Examples:

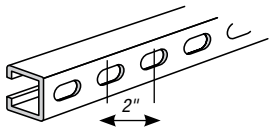
Two A-1200 channels back to back are ordered as A-1202.
Two A-1200 channels back to side are ordered as A-1202-C.

Specify desired finish or material.

*"A" and "B" Series back-to-back combinations are joined using Thomas & Betts' steel rivet joining process. The riveted channel is offered in standard GoldGalv®, stainless steel, painted, pre-galvanized and hot-dip galvanized finishes.

## Hole Configurations

### Half-Slot Channel

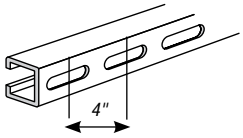



| CAT. NO. | DIM. (IN.) | GA. | STD. CTN. |
|---|---|---|---|
| A-1200-HS | 1⅝ x 1⅝ | 12 | * |
| B-1200-HS | 1⅝ x 13/16 | 12 | * |
| C-1200-HS | 1⅝ x 1⅜ | 12 | 500 |
| E-1200-HS | 1⅝ x 2 7/16 | 12 | 500 |
| H-1200-HS | 1⅝ x 3¼ | 12 | * |
| A-1400-HS | 1⅝ x 1⅝ | 14 | * |
| B-1400-HS | 1⅝ x 13/16 | 14 | 500 |

*9/16" x 1⅛" slots on 2" centers.*

** Standard lengths 10 ft. and 20 ft. for standard cartons. Please consult your local T&B representative.*

### Slotted Channel

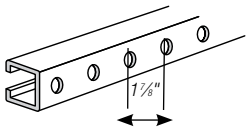



| CAT. NO. | DIM. (IN.) | GA. | STD. CTN. |
|---|---|---|---|
| A-1200-S | 1⅝ x 1⅝ | 12 | * |
| B-1200-S | 1⅝ x 13/16 | 12 | * |
| A-1400-S | 1⅝ x 1⅝ | 14 | * |
| B-1400-S | 1⅝ x 13/16 | 14 | * |

*7/16" x 3" slots on 4" centers.*

** Standard lengths 10 ft. and 20 ft. for standard carton. Please consult your local T&B representative.*

### Punched Channel

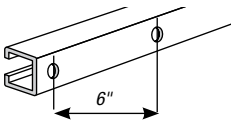



| CAT. NO. | DIM. (IN.) | GA. | STD. CTN. |
|---|---|---|---|
| A-1200-P | 1⅝ x 1⅝ | 12 | 500 |
| B-1200-P | 1⅝ x 13/16 | 12 | 500 |
| H-1200-P | 1⅝ x 13/16 | 12 | 500 |
| A-1400-P | 1⅝ x 1½ | 14 | 500 |
| B-1400-P | 1⅝ x 13/16 | 14 | 500 |

*9/16" holes on 1⅛" centers.*

*Available in 10 & 20 ft. lengths.*

### Channel with Knockouts




| CAT. NO. | DIM. (IN.) | GA. | STD. CTN. |
|---|---|---|---|
| A-1200-KO | 1⅝ x 1⅝ | 12 | * |
| A-1400-KO | 1⅝ x 1⅝ | 14 | * |

*KO for ½" conduit.*

*Please consult your local T&B representative.*

*Standard Finish – GoldGalv® brand.*

# Trapnut® Strut Fastener

NEW!

The unique scissor action of the Trapnut® Strut Fastener closes at any desired position on the threaded rod. Once closed, precision threads trap the threaded rod for a sturdy hold that can be adjusted up or down for fine-tune positioning. While the versatile Trapnut has a locking pin that holds it in the desired position, it can also be removed and reused.



Standard method using nuts and washers.

Unlike a hex nut, there is no need to thread the Trapnut® from either end of the rod, saving valuable time on the job. While the Trapnut® Strut Fastener is a time-saver for new construction, it is invaluable for retro-fit applications. Rather than disassembling an existing trapeze to run additional conduit above it, the Trapnut® fastener can be clamped between the existing trapeze and the beam clamp for a speedy retro-fit solution. It's ideal for applications where the rod ends are not accessible.

The Trapnut® fastener has a sturdy steel construction that is load bearing, so you can be confident of a solid installation. And, the Trapnut® fastener functions as a hex nut, square washer and flat washer combined, so there are fewer parts to keep up with on the job.



New method using Trapnut® Strut Fastener.



*CAT. NO. H 122 3/8 Trapnut® Strut Fastener GoldGalv®*



*CAT. NO. H 122 3/8 EG Trapnut® Strut Fastener SilverGalv®*

| CAT. NO. | DESCRIPTION | SIZE (IN.) | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|---|
| **H 122 1/4** | ¼" GoldGalv® | ¼ | 150 | 50 |
| **H 122 3/8** | ⅜" GoldGalv® | ⅜ | 590 | 50 |
| **H 122 1/2** | ½" GoldGalv® | ½ | 1,080 | 50 |
| **H 122 1/4 EG** | ¼" SilverGalv® | ¼ | 150 | 50 |
| **H 122 3/8 EG** | ⅜" SilverGalv® | ⅜ | 590 | 50 |
| **H 122 1/2 EG** | ½" SilverGalv® | ½ | 1,080 | 50 |
| **H 122 1/4 SS6** | ¼" Type 316 Stainless Steel | ¼ | 150 | 50 |
| **H 122 3/8 SS6** | ⅜" Type 316 Stainless Steel | ⅜ | 590 | 50 |
| **H 122 1/2 SS6** | ½" Type 316 Stainless Steel | ½ | 1,080 | 50 |




## Easy to Install



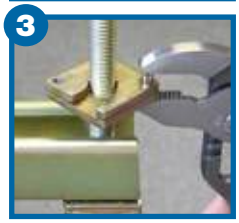
**1 Hold in the open position.**

- No need to thread the Trapnut® fastener from either end of the rod — saving valuable time
- Perfect for retro-fit applications where the rod ends are not accessible



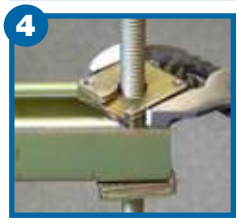
**2 Insert the bottom plate on the rod and close the top plate.**

- Precision threads trap the threaded rod for a sturdy hold that can be adjusted up or down for fine-tune positioning
- Functions as a hex nut, square washer and flat washer combined



**3 Press the pin with pliers.**

- Locking pin holds it in the desired position
- Can be removed and reused



**4 Tighten to the desired position with pliers.**

- Can be adjusted up or down for fine-tuned positioning
- Sturdy steel construction that is load bearing
- Sized to provide custom fit for either 1⅝" or 1½" strut systems



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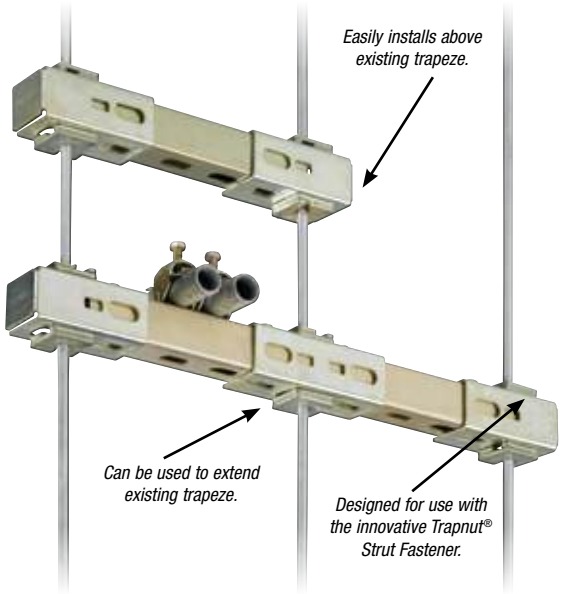
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# Handle Retrofit Trapeze Applications with Ease!

## Trap-Eze™ Connector

The innovative Trap-Eze™ Connector changes a time-consuming retrofit trapeze application into a streamlined process. Using a Trapnut® Strut Fastener, the new Trap-Eze™ Connector can be easily installed above or to the side of an existing assembly, eliminating the need to disassemble and reassemble the trapeze. It is designed for use with shorter strut lengths that can vary in length by as much as an inch, so the strut can be rough cut versus labor-intense precision cuts.

- Easily installs above or to the side of an existing assembly, eliminating the need to disassemble and reassemble the trapeze
- Connectors can be reused upon disassembly of a trapeze
- Designed for either ⅜" and ½" threaded rod
- Designed for use with the innovative Trapnut® Strut Fastener, which can take up to 43% less time than standard nuts and washers on retrofit trapeze applications
- View window provides safety zone for strut length







*View window provides strut length safety zone for rough cuts versus precision cuts.*



*Unique safety slot maintains bracket position on threaded rod and prevents disengagement of the trapeze system.*

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| ***For Superstrut® or other 1⅝" Strut*** | | |
| **AB221** | Trap-Eze™ End Connector GoldGalv® | 20 |
| **AB222** | Trap-Eze™ Mid Connector GoldGalv® | 10 |
| **AB221EG** | Trap-Eze™ End Connector SilverGalv® | 20 |
| **AB222EG** | Trap-Eze™ Mid Connector SilverGalv® | 10 |
| ***For 1½" Kindorf Channels*** | | |
| **B998** | Trap-Eze™ End Connector Galv-Krom® | 20 |
| **B999** | Trap-Eze™ Mid Connector Galv-Krom® | 10 |
| **B998EG** | Trap-Eze™ End Connector SilverGalv® | 20 |
| **B999EG** | Trap-Eze™ Mid Connector SilverGalv® | 10 |

## Square Washer




*AB-241*

| CAT. NO. | BOLT SIZE (IN.) | STD. CTN. |
|---|---|---|
| **AB-241-1/4** | ¼ | 100 |
| **AB-241-5/16** | 5/16 | 100 |
| **AB-241-3/8** | ⅜ | 100 |
| **AB-241-1/2** | ½ | 100 |
| **AB-241-5/8** | ⅝ | 100 |
| **AB-241-3/4** | ¾ | 50 |

## Located Square Washer




*AB-241L*

| CAT. NO. | BOLT SIZE (IN.) | STD. CTN. |
|---|---|---|
| **AB-241L-1/4** | ¼ | 100 |
| **AB-241L-5/16** | 5/16 | 100 |
| **AB-241L-3/8** | ⅜ | 100 |
| **AB-241L-1/2** | ½ | 100 |
| **AB-241L-5/8** | ⅝ | 100 |

## Channel Nuts

Superstrut® channel nuts are manufactured from mild steel and are case hardened.

### Design Data

Superstrut® self-aligning channel nuts are designed to provide resistance to pull out and resistance to side slip in excess of the full strength of the channels with which they are used. The extreme resistance to side slip results from the unique design of the alternate teeth, spaced and designed to develop a wedging action that increases with pressure or load.

**Load Ratings for ¼", ⅜" and ½" Strut Nuts used in Superstrut®**

| CHANNEL NUT SIZES (IN.) | SLIP TEST RATING | PULL TEST RATING |
|---|---|---|
| ¼ | 300 | 500 |
| ⅜ | 750 | 1,000 |
| ½ | 1,200 | 2,000 |

*If connections will be subjected to dynamic or seismic loading conditions, contact the factory for design assistance.*

*1. All ratings have safety factor of 3 applied.*

*2. Load ratings are for Static Applications.*

### UC-100 Universal Cone Nut

Eliminates the inventory and installation hassles of conventional spring nuts. Fits all 1⅝" channel, regardless of depth, with a simple twist of your thumb. Pliable nylon cone secures the nut in place through the entire range of construction site temperatures.

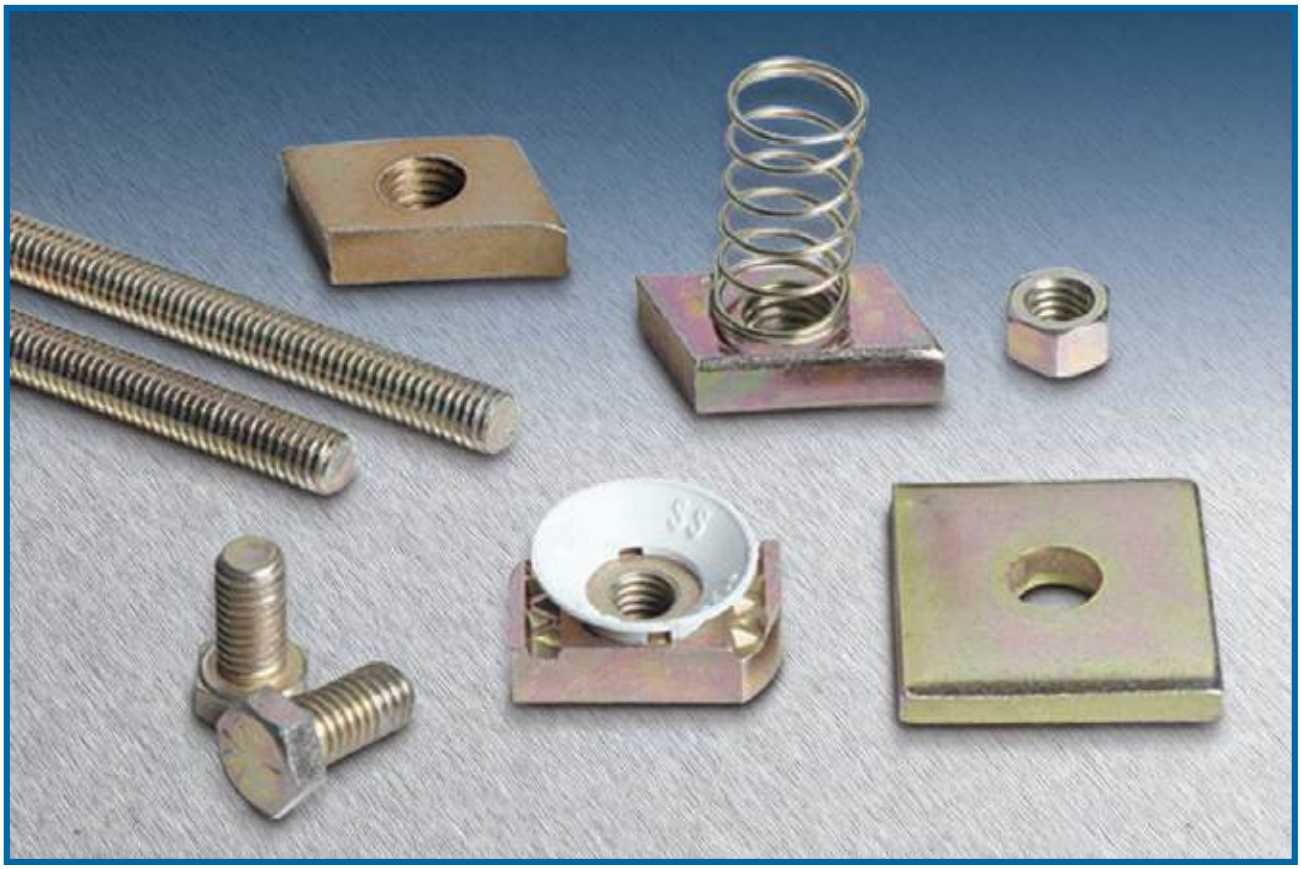
### Screw Threads

| THREAD SIZE (IN.) | ¼ | ⅜ | ½ |
|---|---|---|---|
| THREADS PER INCH | 20 | 16 | 13 |
| DESIGN TORQUE (FT.–LBS.) | 6 | 19 | 50 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

All threaded products are American Standard thread, free fit class 2. GoldGalv® hardware finish is standard for all Superstrut® products. This is a multi-process finish of electro-plated zinc, followed by gold-colored trivalent chromium to give excellent corrosion resistance and a superior paint base. See **pages B-106–B-107** for a complete description of the GoldGalv® hardware finish.

***Note**: Standard Spring and Springless Nuts are supplied with a silver electro-galvanized (EG) finish. These items are not visible in a gold system and are universal with other systems' finishes and colorations.*





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# Threaded Products and Hardware



## A-100 Regular Spring Nut

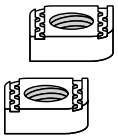


Sizes: ¼", 5⁄16", ⅜", ½", ⅝", ¾" & ⅞"

Nut is square over ½" size.

For all "A" and "C" series channel and inserts.

## AB-100 Springless Nut



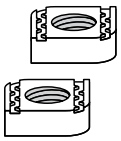
Sizes: ¼", 5⁄16", ⅜", ½", ⅝" & ¾"

Nut is square over ½" size.

For use with all channels.

Silver Electroplated Finish.

## AC-100 Springless Nut

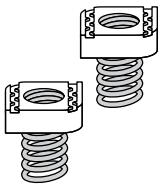


Sizes: ¼", ⅜", ½", ⅝" & ¾"

Nut is square over ½" size.

For all "A", "C", "E" and "H" series channel and inserts.

## B-100 Short Spring Nut



Sizes: ¼", 5⁄16", ⅜" & ½"

Nut is square over ½" size. For all "B" series channel and inserts.

## CM-100 Nylon Cone Nut



Sizes: ¼", ⅜" & *½"

For all 1⅝" channel.

*Will not fit "B" series channel.

GoldGalv® Finish

## E-142 Hex Head Cap Screw



Sizes: ¼" x 1", ¼" x 1½", ⅜" x 1", ⅜" x 1½", ½" x 15⁄16" & ½" x 1½"

See price sheet for additional sizes.

## E-145 Standard Hex Nut



Sizes: ¼", ⅜", ½", ⅝", ¾", ⅞" & 1"

GoldGalv® Finish.

## E-146 Standard Square Nut



Sizes: ¼", 5⁄16", ⅜", ½" & ⅝"

GoldGalv® Finish.

## E-147 Flat Steel Washer



Sizes: ¼", 5⁄16", ⅜", ½", ⅝", ¾" & ⅞"

GoldGalv® Finish.

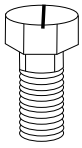
## E-148 Lock Washer



Sizes: ¼", ⅜", ½" & ⅝"

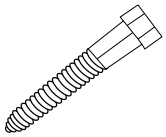
GoldGalv® Finish.

## E-149 Slotted Hex Indented Head Machine Screw



Sizes: ¼" x ¾", ¼" x 1", 5⁄16" x 1¼" & ⅜" x 1¼"

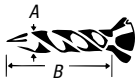
## E-150-S Lag Bolt Screw



Size: ⅜" & ½"

Drill Size: ¼" & 11⁄32"

## E-151-D Wood Screw Drive

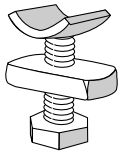



Size A: ¼"

Size B: 2"

Max. Rec. Load: 100 lbs.

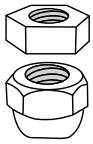
## ES-142 Seismic Stiffener Nut



Size: ES-142-½ x 1½"

Bolt Dia.: ½"

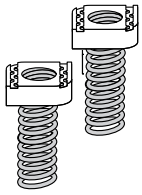
## ES-145 Swivel Nut and Jam Nut Combinations



Sizes: ⅜" & ½"

GoldGalv® Finish.

## H-100 Long Spring Nut

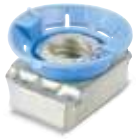


Sizes: ⅜", ½" & ⅝"

Nut is square over ½" size.

For all "E" and "H" series channel and inserts.

## UC-100 Universal Nylon Cone Nut



Sizes: ¼", ⅜" & ½"

For all 1⅝" & 1½" channels. May be used with ALL strut depths. Can be used for CM-100, A-100, B-100 & AB-100 Series.

GoldGalv® Finish.

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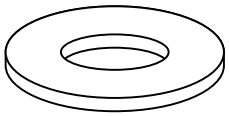
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# Threaded Products and Hardware

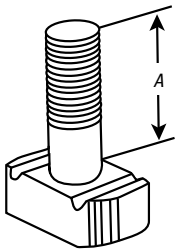
## Fender Washer



EF-147

| CAT. NO. | SIZE (IN.) | DIA. (IN.) | HOLE STD. (IN.) | STD. CTN. |
|---|---|---|---|---|
| EF147 1/4 | ¼ | 1¼ | 5/16 | 100 |
| EF-147-3/8 | ⅜ | 1½ | 7/16 | 100 |
| EF-147-1/2 | ½ | 2 | 9/16 | 100 |

## Springless Stud Nut

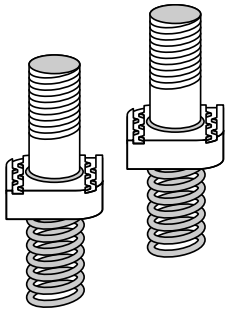



A-177 to A-180

| CAT. NO. | BOLT DIA. (IN.) | LENGTH A (IN.) | STD. CTN. |
|---|---|---|---|
| A177 1/4 1 | ¼ | 1 | 50 |
| A-177-1/4 X 1-1/4 | ¼ | 1¼ | 250 |
| A-179-3/8 X 1 | ⅜ | 1 | 250 |
| A-179-3/8 X 1-1/4 | ⅜ | 1¼ | 50 |
| A-180-1/2 X 1* | ½ | 1 | 250 |
| A-180-1/2 X 1-1/4* | ½ | 1¼ | 250 |

** Cannot be used with "B" Series channel.*

## Regular Spring Stud Nut



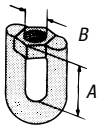
A-182 to A-185

| CAT. NO. | BOLT DIA. (IN.) | LENGTH A (IN.) | STD. CTN. |
|---|---|---|---|
| A182 1/4 1 | ¼ | 1 | 250 |
| A-182-1/4 X 1-1/4 | ¼ | 1¼ | 250 |
| A-184-3/8 X 1 | ⅜ | 1 | 50 |
| A-184-3/8 X 1-1/4 | ⅜ | 1¼ | 50 |
| A-185-1/2 X 1 | ½ | 1 | 50 |
| A-185-1/2 X 1-1/4 | ½ | 1¼ | 50 |

*For all "A" and "C" series channels.*

*Standard Finish – GoldGalv®, unless otherwise stated.*

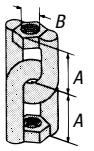
## Swivel Eye




E-120

| CAT. NO. | A (IN.) | B (IN.) | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|---|
| E120 3/8 | 1⅜ | ⅜ | 1,000 | 25 |
| E120 1/2 | 1½ | ½ | 1,800 | 25 |

## Swivel Joint

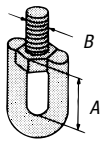



E-122

| CAT. NO. | A (IN.) | B (IN.) | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|---|
| E122 3/8 | 1⅜ | ⅜ | 1,000 | 25 |
| E-122-1/2 | 1½ | ½ | 1,800 | 10 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

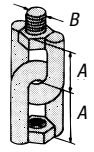
## Swivel Eye with Stud




E-130

| CAT. NO. | A (IN.) | B (IN.) | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|---|
| E130 3/8 | 1⅜ | ⅜ | 1,000 | 25 |
| E-130-1/2 | 1½ | ½ | 1,800 | 25 |

## Swivel Joint with Stud




E-131

| CAT. NO. | A (IN.) | B (IN.) | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|---|
| E131 3/8 | 1⅜ | ⅜ | 1,000 | 25 |
| E-131-1/2 | 1½ | ½ | 1,800 | 10 |

*Standard Finish – GoldGalv®, unless otherwise stated.*



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United States
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

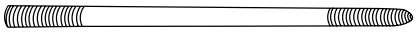
Technical Services
Tel: 888.862.3289

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# Threaded Products and Hardware



## E-151 — Coach Screw Rod



- Black available upon request
- Machine-threaded opposite end, carbon steel
- Order by Cat. No., rod size and rod length

| CAT. NO. | ROD SIZE (IN.) | STANDARD ROD LENGTHS | STD. CTN. |
|---|---|---|---|
| E-151-3/8 | ⅜ | 4, 6, 8, 10, 12 | 100 |
| E-151-1/2 | ½ | 4, 6, 8, 10 | 100 |

## H104-EG Hanger Rod, Continuous Thread — SilverGalv®



| CAT. NO. | SIZE | WT./LBS. PER 100 PCS. |
|---|---|---|
| H104 1/4X6-EG | | 73 |
| H104 1/4X10-EG | ¼"–20 | 124 |
| H104 1/4X12-EG | | 148 |
| H104 3/8X6-EG | | 172 |
| H104 3/8X10-EG | ⅜"–16 | 293 |
| H104 3/8X12-EG | | 348 |
| H104 1/2X6-EG | | 313 |
| H104 1/2X10-EG | ½"–13 | 530 |
| H104 1/2X12-EG | | 648 |
| H104 5/8X6-EG | | 510 |
| H104 5/8X10-EG | ⅝"–11 | 850 |
| H104 5/8X12-EG | | 1,020 |

*Suffix indicates rod size and length.*

## H104 Hanger Rod, Continuous Thread — GoldGalv®

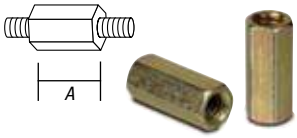


*H-104 Series Rod*

| CAT. NO. | SIZE | WT./LBS. PER 100 PCS. |
|---|---|---|
| H104 1/4X6 | | 73 |
| H104 1/4X10 | ¼"–20 | 124 |
| H104 1/4X12 | | 148 |
| H104 3/8X6 | | 172 |
| H104 3/8X10 | ⅜"–16 | 293 |
| H104 3/8X12 | | 348 |
| H104 1/2X6 | | 313 |
| H104 1/2X10 | ½"–13 | 530 |
| H104 1/2X12 | | 648 |
| H104 5/8X6 | | 510 |
| H104 5/8X10 | ⅝"–11 | 850 |
| H104 5/8X12 | | 1,020 |

*Suffix indicates rod size and length.*

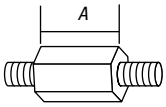
## Standard Rod Coupling




| CAT. NO. | ROD SIZE (IN.) | A (IN.) | STD. CTN. |
|---|---|---|---|
| H119-1/4 | ¼ | ⅞ | 50 |
| H119-5/16 | 5/16 | ⅞ | 50 |
| H119-3/8 | ⅜ | 1⅛ | 50 |
| H119-1/2 | ½ | 1¼ | 50 |
| H119-5/8 | ⅝ | 2⅛ | 50 |
| H119-3/4 | ¾ | 2¼ | 50 |
| H119-7/8 | ⅞ | 2½ | 50 |
| H119-1 | 1 | 2¼ | 50 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

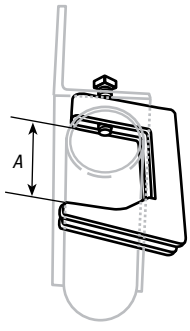
## Reducing Rod Coupling




| CAT. NO. | ROD SIZE (IN.) | A (IN.) | STD. CTN. |
|---|---|---|---|
| H119-1/4X3/8 | ¼–⅜ | 1½ | 50 |
| H119-3/8X1/2 | ⅜–½ | 1¼ | 50 |
| H119-1/2X5/8 | ½–⅝ | 1¼ | 50 |
| H119-5/8X3/4 | ⅝–¾ | 1½ | 50 |
| H119-3/4X7/8 | ¾–⅞ | 1¾ | 50 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

## U-571, U-572 Conduit Clamp




*U-571, U-572*

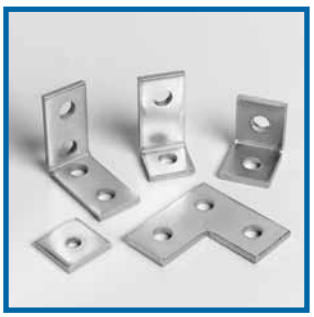
| CAT. NO. | CONDUIT SIZE (IN.) | MAX. FLANGE THICKNESS (IN.) | DIM. A (IN.) | STD. CTN. |
|---|---|---|---|---|
| U-571 | ½ | 1 | 1¾ | 25 |
| U-571 | ¾ | ¾ | 1¾ | 25 |
| U-571 | 1 | ½ | 1¾ | 25 |
| U-572 | ¾ | 1½ | 2½ | 25 |
| U-572 | 1 | 1¼ | 2½ | 25 |
| U-572 | 1¼ | 1 | 2½ | 25 |
| U-572 | 1½ | ⅝ | 2½ | 25 |

*Standard Finish – GoldGalv® brand.*

*For attaching ½" thru 1½" conduit to beam, channel, angle or column. Secures conduit to the support parallel or at right angles to it.*

*5/16" set screw, 12 ga. material.*

# Fittings and Brackets — Series 200





## Material

Superstrut® fittings and brackets are manufactured from hot rolled carbon steel.

## Dimensions

The following standard dimensions apply to all fittings except as indicated on the individual drawings.

- Hole spacing: 13⁄16" from end of fittings
- Hole spacing: 1 7⁄8" centers
- Hole size: 9⁄16" diameter
- Material: 1 5⁄8" wide
- Material: 1⁄4" thickness

## Application Instructions

Parts drawings illustrate a typical use for the fitting, and in many cases other uses for the part are appropriate.

## Design Data

Ratings vary when used with 12 or 14 gauge channel and are shown for each channel material.

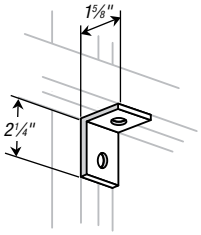
GoldGalv® hardware finish is standard for all Superstrut® products. This is a multi-process finish of electro-plated zinc, followed by gold-colored trivalent chromium to give excellent corrosion resistance and a superior paint base. See **pages B-106–B-107** for complete description of the GoldGalv® hardware finish. GoldGalv® hardware will be furnished if no other finish is specified.

## Nuts and Bolts Required

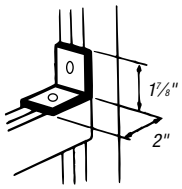
Unless otherwise noted, nuts and bolts for use with fittings and brackets should be ordered separately.

The standard bolt for the 9⁄16" hole is a 1⁄2" hex head cap screw 15⁄16" long. The 15⁄16" length may be used with all series channel.

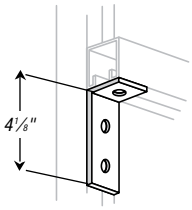
Standard Finish – GoldGalv®, unless otherwise stated.



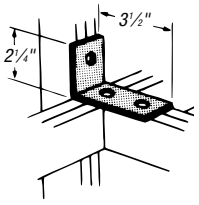

CAT. NO. AB201



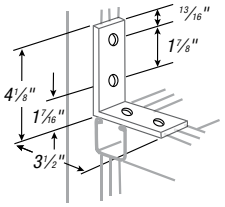

CAT. NO. AB202



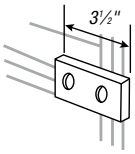

CAT. NO. AB203



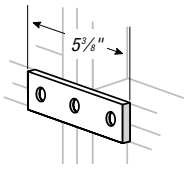

CAT. NO. AB204



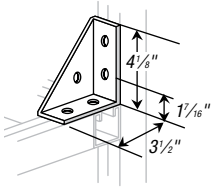

CAT. NO. AB205



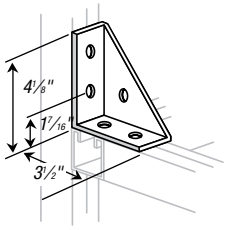

CAT. NO. AB206



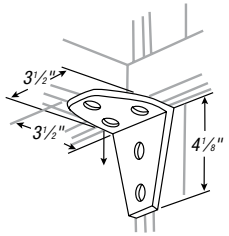

CAT. NO. AB207



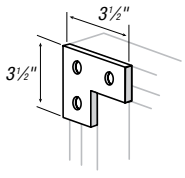

CAT. NO. AB213



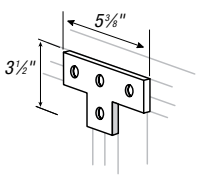

CAT. NO. AB214



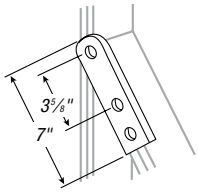

CAT. NO. AB216




CAT. NO. AB219




CAT. NO. AB220




CAT. NO. AB240

## Standard Dimensions

- Hole Spacing: 13⁄16" From End
- Hole Spacing: 1 7⁄8" Centers
- Hole Size : 9⁄16" Diameter
- Material: 1 5⁄8" Width
- Material: 1⁄4" Thick

*Standard Finish – GoldGalv®, unless otherwise stated.*
*Add EG suffix for SilverGalv® Finish*



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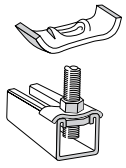
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Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

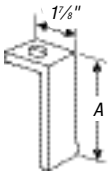
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# Fittings and Brackets



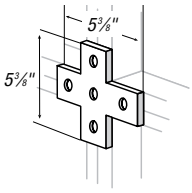


**CAT. NO. AB-242**
*For use with either ⅜" or ½" hanger rod*

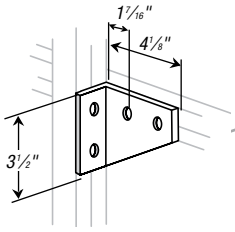



**CAT. NO. AB252**

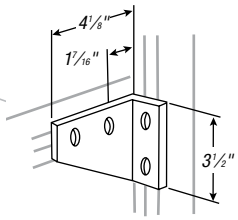
| CAT. NO. | A (IN.) | STD. CTN. |
|---|---|---|
| AB252 1 | 3⅞ | 10 |
| AB252 2 | 5⅞ | 10 |
| AB252 3 | 7⅞ | 10 |
| AB252 4 | 9⅞ | 10 |



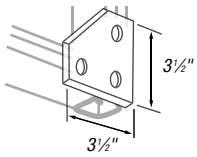

**CAT. NO. AB253**



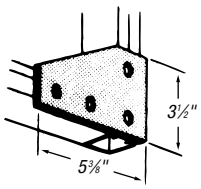

**CAT. NO. AB254 L**



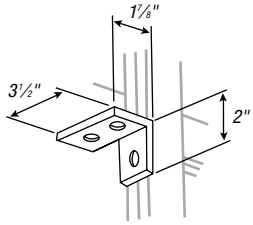

**CAT. NO. AB254 R**



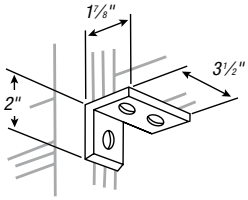

**CAT. NO. AB255**



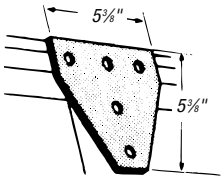

**CAT. NO. AB257**



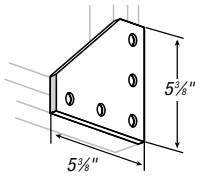

**CAT. NO. AB260 L**



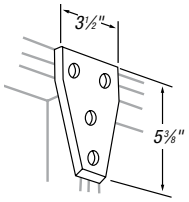

**CAT. NO. AB260 R**



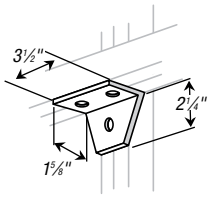

**CAT. NO. AB261**



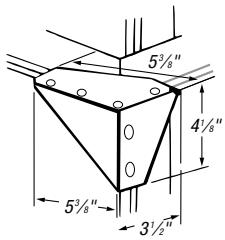

**CAT. NO. AB263**



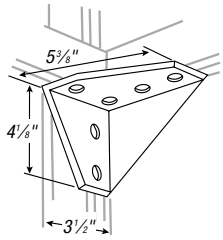

**CAT. NO. AB265**



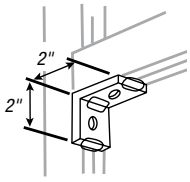

**CAT. NO. AB274**



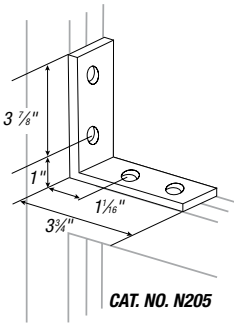

**CAT. NO. AB284 L**



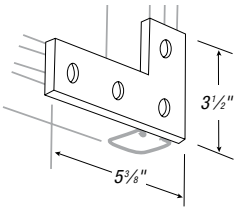

**CAT. NO. AB284 R**



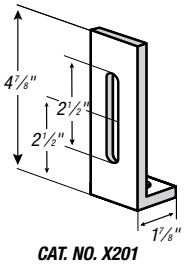

**CAT. NO. AB299**



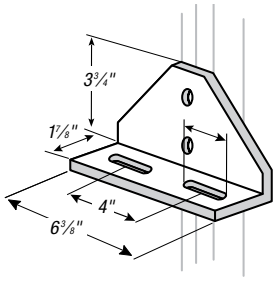

**CAT. NO. N205**



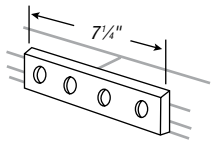

**CAT. NO. N-219**



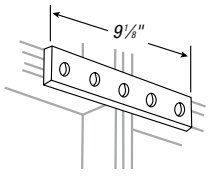

**CAT. NO. X201**



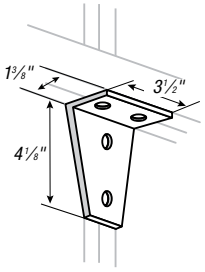

**CAT. NO. X204**
*Slot size is ⅝" x 1½"*



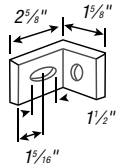

**CAT. NO. X207**




**CAT. NO. X208**




**CAT. NO. X289**




**CAT. NO. X299**

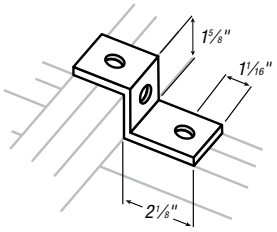
## Standard Dimensions

- Hole Spacing: ¹³⁄₁₆" From End
- Hole Spacing: 1⅞" Centers
- Hole Size : ⅝" Diameter
- Material: 1⅝" Width
- Material: ¼" Thick

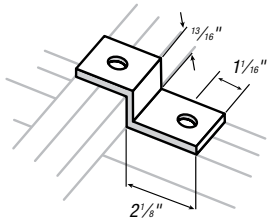
*Standard Finish – GoldGalv®, unless otherwise stated.*
*Add EG suffix for SilverGalv® Finish*

# Fittings and Brackets

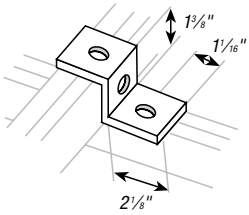
## Z Shape Fittings



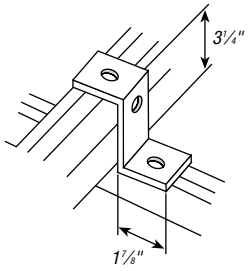

**CAT. NO. A209**
*For attaching "A" series channel.*



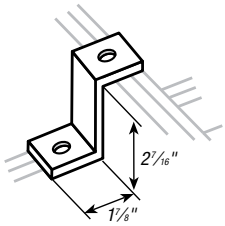

**CAT. NO. B209**
*For attaching "B" series channel.*




**CAT. NO. C209**
*For attaching "C" series channel.*




**CAT. NO. CZ209**
*For attaching "A" back to back.*



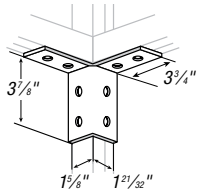

**CAT. NO. EZ209**
*For attaching "E" series channel.*

### Standard Dimensions

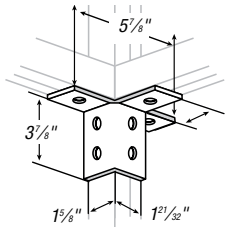
- Hole Spacing: 1⅜16" From End
- Hole Spacing: 1⅞" Centers
- Hole Size: 1" Diameter
- Material: 1⅝" Width
- Material: ¼" Thick

*Standard Finish – GoldGalv®, unless otherwise stated.*
*Add EG suffix for SilverGalv® Finish*

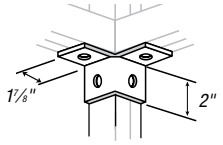
## Wing Shape Fittings



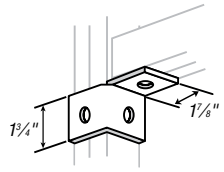

**CAT. NO. A217**



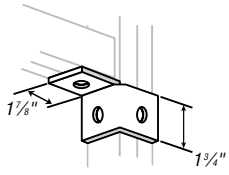

**CAT. NO. A218**



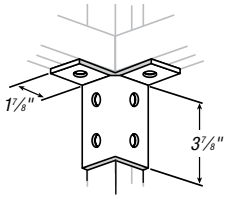

**CAT. NO. AW204**



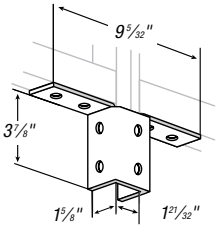

**CAT. NO. AW205 L**



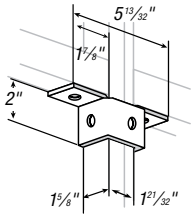

**CAT. NO. AW205-R**



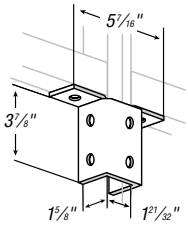

**CAT. NO. AW214**



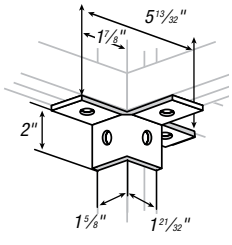

**CAT. NO. AW219**



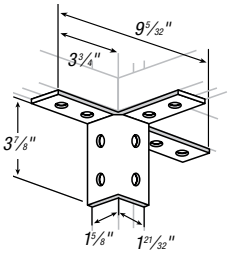

**CAT. NO. AW220**




**CAT. NO. AW224**




**CAT. NO. AW226**




**CAT. NO. AW228**

### Standard Dimensions

- Hole Spacing: 1⅜16" From End
- Hole Spacing: 1⅞" Centers
- Hole Size: 1" Diameter
- Material: 1⅝" Width
- Material: ¼" Thick

*Standard Finish – GoldGalv®, unless otherwise stated.*
*Add EG suffix for SilverGalv® Finish*



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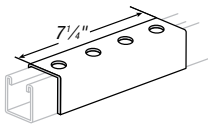
**United States**
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

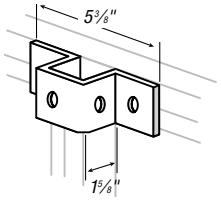
www.tnb.com

# Fittings and Brackets

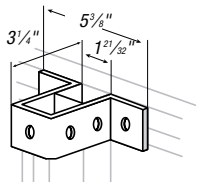
## U Shape Fittings



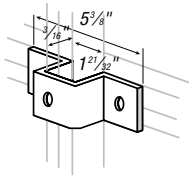

**CAT. NO. A208**
*Does not include strut nut or bolts. For "A" series channel.*



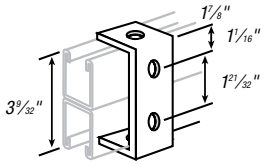

**CAT. NO. A210**
*For attaching "A" series channel*



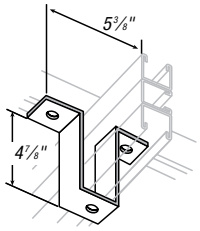

**CAT. NO. A211**
*For attaching "A" series channel.*



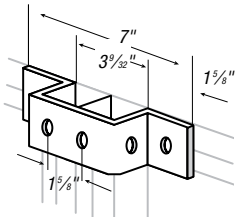

**CAT. NO. B210**



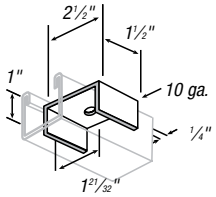

**CAT. NO. AB245**



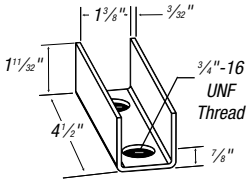

**CAT. NO. AN211**



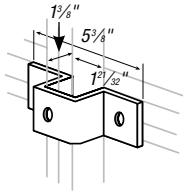

**CAT. NO. A212**



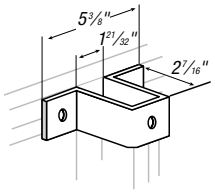

**CAT. NO. AB-288**




**CAT. NO. A-213**




**CAT. NO. C210**
*For attaching "C" series channel.*



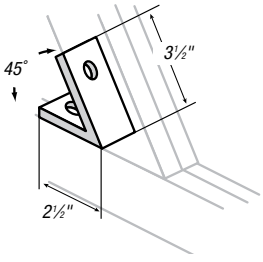

**CAT. NO. E210**
*For attaching "E" series channel.*

### Standard Dimensions

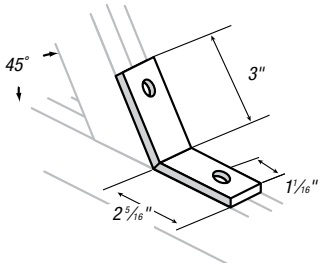
- Hole Spacing: 1 3/16" From End
- Hole Spacing: 1⅞" Centers
- Hole Size: 1" Diameter
- Material: 1⅝" Width
- Material: ¼" Thick

*Standard Finish – GoldGalv®, unless otherwise stated.*
*Add EG suffix for SilverGalv® Finish*

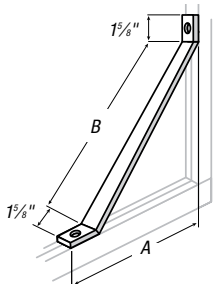
## Angular Fittings




**CAT. NO. AB225**




**CAT. NO. AB227**



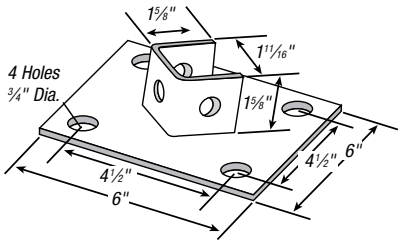

**CAT. NO. AB-239**

| CAT. NO. | A (IN.) | B (IN.) | STD. CTN. |
|---|---|---|---|
| AB239 1 | 7 13/16 | 8½ | 15 |
| AB-239-2 | 13¾ | 17 | 10 |
| AB-239-3 | 19¾ | 25½ | 10 |

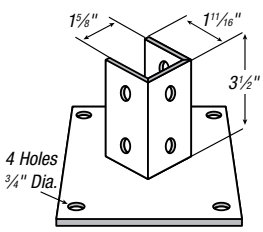
*Standard Finish – GoldGalv®, unless otherwise stated.*
*Add EG suffix for SilverGalv® Finish*

## Fittings and Brackets

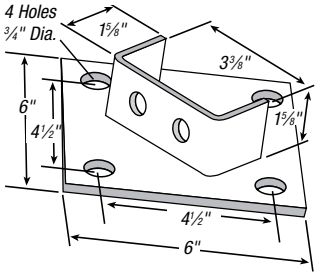
# Post Bases



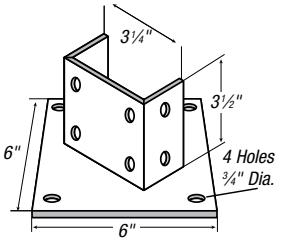

CAT. NO. AP-231



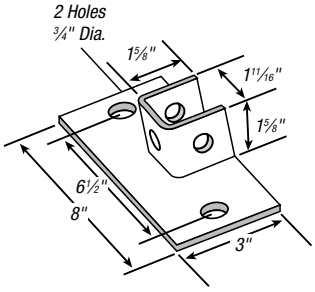

CAT. NO. AP-232



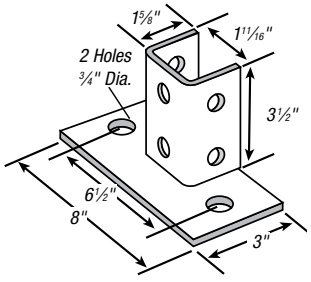

CAT. NO. AP-234



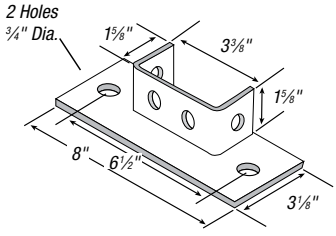

CAT. NO. AP-235



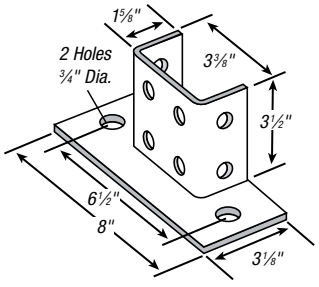

CAT. NO. AP-231FL



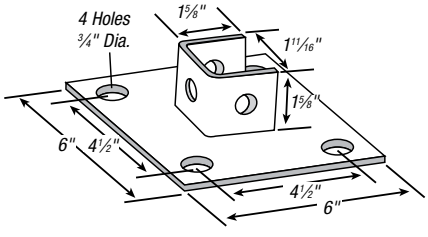

CAT. NO. AP-232FL



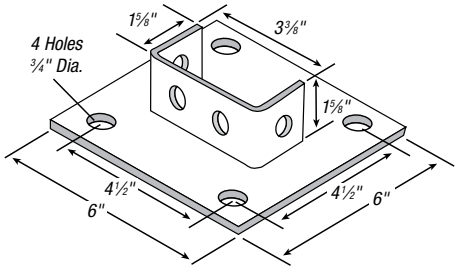

CAT. NO. AP-234FL



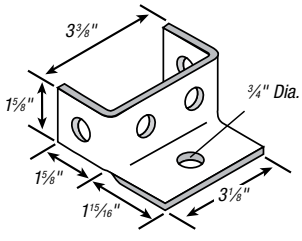

CAT. NO. AP-235FL



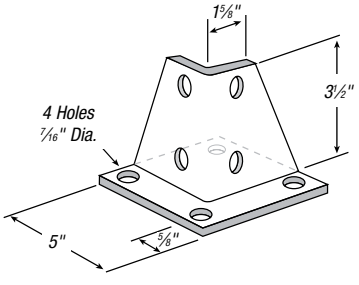

CAT. NO. AP-231SQ



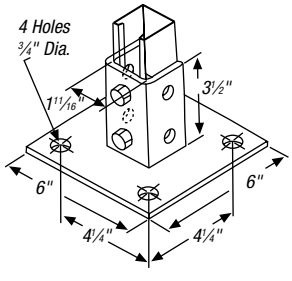

CAT. NO. AP-234SQ



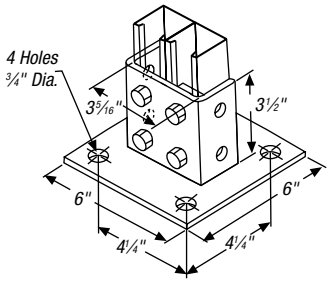

CAT. NO. AW-239




CAT. NO. AP-206




CAT. NO. AP-232SQ




CAT. NO. AP-235SQ

*Standard Finish – GoldGalv®, unless otherwise stated.*
*Add EG suffix for SilverGalv® Finish*



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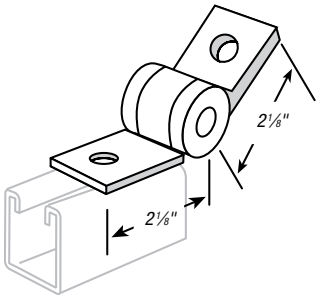
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Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

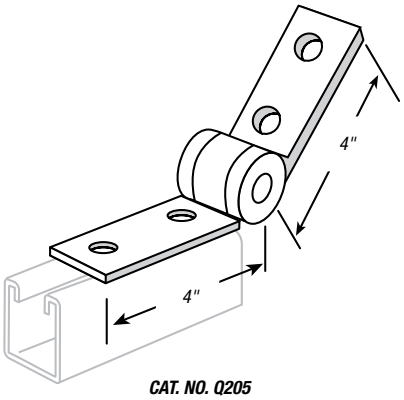
www.tnb.com

# Special Application Fittings

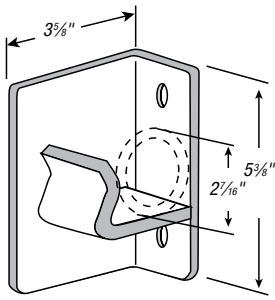




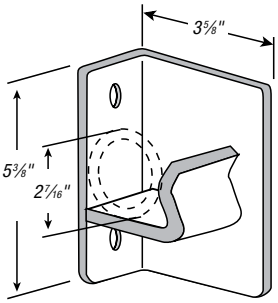

**CAT. NO. Q202**



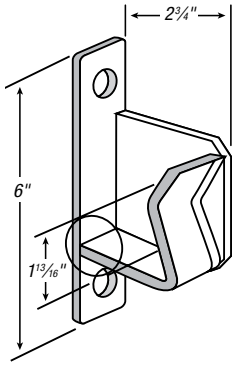

**CAT. NO. Q205**



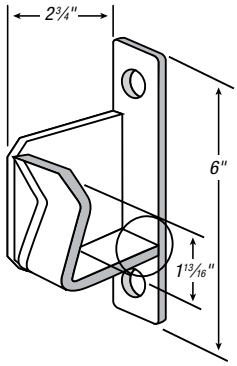

**CAT. NO. Q255**
*For 2" standard pipe.*
*Load 1,500 lbs.*



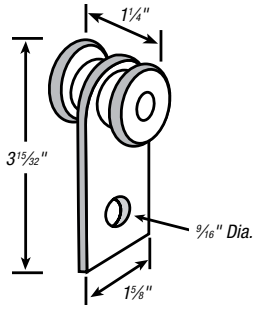

**CAT. NO. Q256**
*For 2" standard pipe.*
*Load 1,500 lbs.*



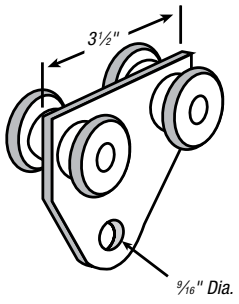

**CAT. NO. Q253**
*For 1¼" standard pipe.*
*Load 1,500 lbs.*




**CAT. NO. Q254**
*For 1¼" standard pipe.*
*Load 1,500 lbs.*




**CAT. NO. TR292**
*Frictionless needle bearings.*
*Design load: 500 lbs.*
*Safety factor of 5.*




**CAT. NO. TR294**
*Frictionless needle bearings.*
*Design load: 1,000 lbs.*
*Safety factor of 5.*

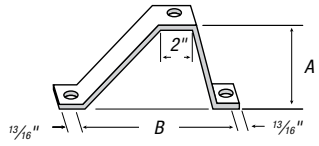
## Standard Dimensions

- Hole Spacing: ¹³⁄16" From End
- Hole Spacing: 1⅞" Centers
- Hole Size : ⅜16" Diameter
- Material: 1⅝" Width
- Material: ¼" Thick

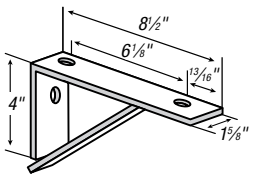
*Standard Finish – GoldGalv®, unless otherwise stated.*
*Add EG suffix for SilverGalv® Finish*

## Fittings and Brackets

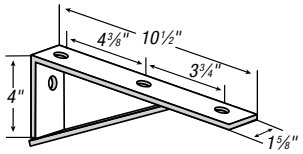
# Special Application Fittings *(continued)*



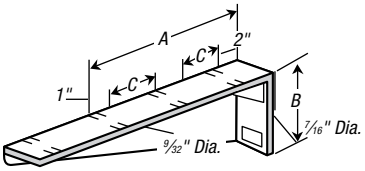

***AN-270***



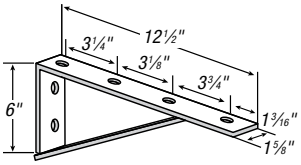

***S204***
*Design Uniform Load/lbs.*
*A-1,200 650*
*A-1,400 500*



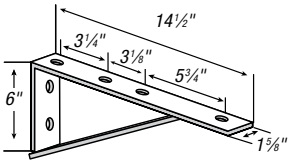

***S205***
*Design Uniform Load/lbs.*
*A-1,200 650*
*A-1,400 500*



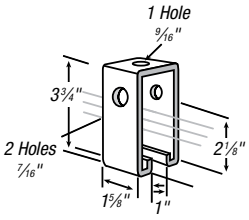

***S-201-L and R***
*R as shown — L opposite hand.*
*12 ga. steel. Design Uniform Load/lbs.*
*A-1,200 250*
*A-1,400 200*



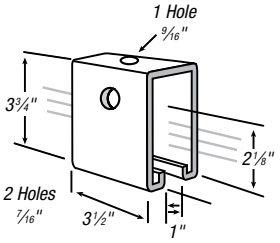

***S217***
*Design Uniform Load/lbs.*
*A-1,200 750*
*A-1,400 650*




***S218***
*Design Uniform Load/lbs.*
*A-1,200 750*
*A-1,400 650*




***TS-272***
*Track Support*
*Requires ⅜" x 2½" bolt and nut (not included).*
*Design load: 1,000 lbs.*




***TS273***
*Track Support*
*For uses over channel splice. Requires ⅜" x 2½" bolt and nut (not included).*
*Design load: 2,000 lbs.*

*Standard Finish – GoldGalv®, unless otherwise stated.*
*Add EG suffix for SilverGalv® Finish*

### Standard Dimensions

- Hole Spacing: 13/16" From End
- Hole Spacing: 1⅞" Centers
- Hole Size: 9/16" Diameter
- Material: 1⅝" Width
- Material: ¼" Thick

| CAT. NO. | A (IN.) | B (IN.) | C (IN.) | STD. CTN. |
|---|---|---|---|---|
| **S201-L6** or **R6** | 6 | 1 15/16 | 3 | 25 |
| **S201-L8** or **R8** | 8 | 2 1/16 | 5 | 25 |
| **S201L10** or **R10** | 10 | 2 15/16 | 7 | 5 |
| **S201-L12** or **R12** | 12 | 3 1/16 | 3 | 5 |
| **S201-L14** or **R14** | 14 | 3 15/16 | 4 | 5 |
| **S201-L16** or **R16** | 16 | 4 1/16 | 5 | 15 |
| **S201-L18** or **R18** | 18 | 4 15/16 | 6 | 5 |
| **S201-L20** or **R20** | 20 | 5 1/16 | 7 | 10 |

| CAT. NO. | A (IN.) | B (IN.) | STD. CTN. |
|---|---|---|---|
| **AN-270-1** | 2⅜ | 6 | 10 |
| **AN-270-2** | 4⅜ | 8 | 10 |
| **AN-270-3** | 6⅜ | 10 | 10 |
| **AN-270-4** | 8⅜ | 12 | 15 |
| **AN-270-5** | 10⅜ | 14 | 10 |



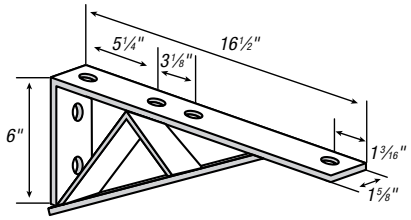
Thomas&Betts

**United States**
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

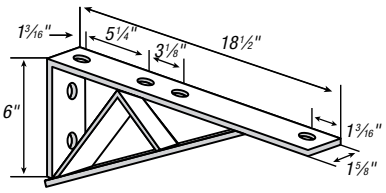
**Technical Services**
Tel: 888.862.3289

www.tnb.com

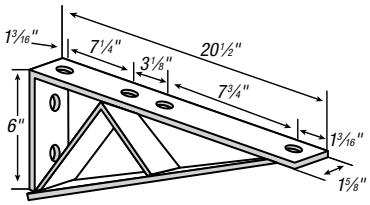
# Brackets



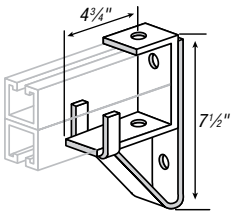

***S222***
*Design Uniform Load/lbs.*
*A-1,200 1,000*
*A-1,400 750*



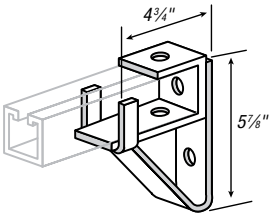

***S226***
*Design Uniform Load/lbs.*
*A-1,200 1,000*
*A-1,400 750*



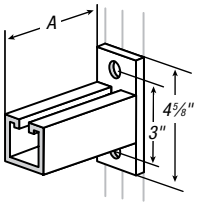

***S236***
*Design Uniform Load/lbs.*
*A-1,200 800*
*A-1,400 650*



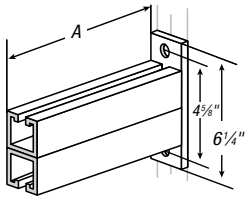

***S248***
*Design Moment*
*(channel upright as shown)*
*When supported by*
*A-1,200 10,800 inch lbs.*
*A-1,400 7,550 inch lbs.*
*Applies to fitting only, not to the arm.*
*For*
*A-1,200*
*A-1,400*



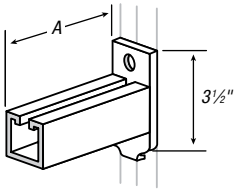

***S247***
*Design Moment*
*(channel upright as shown)*
*When supported by*
*A-1,200 5,250 inch lbs.*
*A-1,400 3,650 inch lbs.*
*Applies to fitting only, not to the arm.*
*For*
*A-1,200 B-1,202*
*A-1,400 B-1,402*




***S-250***
*May be installed inverted with no change in load ratings. Strut section made from half slot channel.*
*Sizes: 6", 12", 18" & 24"*




***S-251***
*Strut section made from half slot channel.*
*Sizes: 12", 18", 24", 30" & 36"*




***S-256***
*When installed in inverted position reduce load rating 40%.*
*Strut section made from half slot channel.*
*Sizes: 6", 12", 18" & 24"*

| CAT. NO. | A (IN.) | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|
| **S250 6** | 6 | 1,500 | 1 |
| **S-250-12** | 12 | 800 | 1 |
| **S-250-18** | 18 | 550 | 1 |
| **S-250-24** | 24 | 400 | 1 |

| CAT. NO. | A (IN.) | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|
| **S-251-12** | 12 | 1,650 | 1 |
| **S-251-18** | 18 | 1,050 | 1 |
| **S-251-24** | 24 | 800 | 1 |
| **S-251-30** | 30 | 650 | 1 |
| **S-251-36** | 36 | 500 | 1 |

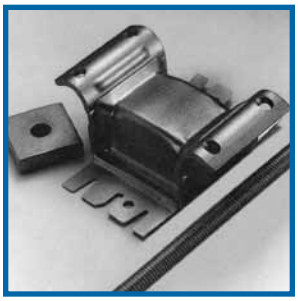
| CAT. NO. | A (IN.) | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|
| **S256 6** | 6 | 1,000 | 1 |
| **S-256-12** | 12 | 500 | 1 |
| **S-256-18** | 18 | 300 | 1 |
| **S-256-24** | 24 | 250 | 1 |

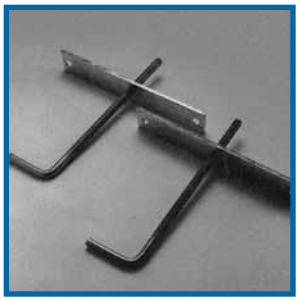
*Standard Finish GoldGalv®, unless otherwise stated.*
*Add EG suffix for SilverGalv® Finish*

# Concrete Inserts (Series 300/400)

Standard lengths 10 ft. and 20 ft. length tolerance 3/16". Assemblies available in any length from 12" to 20 ft. Consult factory.

Insert with end caps and foam filler strip installed.





### Material:

B-302 and C-302 Insert Channel — 12 ga. steel.
B-804 and C-804 End Caps — 12 ga. steel.
Superstrut® continuous insert channel is cold formed from 12 gauge hot-rolled strip steel in two basic sizes as follows:

**CAT. NO. B-302**

1 5/8" x 13/16" dim. 7/8" slot

**CAT. NO. C-302**

1 5/8" x 1 3/8" dim. 7/8" slot

### Finishes

Product is available in GoldGalv® pre-galvanized (PG), hot-dipped galvanized (HDG) and stainless steel (SS). Contact your T&B Sales team for delivery and pricing.

Standard lengths are 10 ft. and 20 ft. Product is supplied with foam filler and end caps to prevent seepage of concrete into channel.

### Application

For casting into concrete walls, floors or ceilings to provide attachment anywhere along the continuous slot.

### Design Data

Load ratings as shown have a safety factor of 3 in 3,000 lb. hard rock concrete. Where "good" concrete does not exist, the load ratings shall not apply.

GoldGalv® hardware finish is standard for all Superstrut® products. This is a multi-process finish of electro-plated zinc, followed by gold-colored trivalent chromium to give excellent corrosion resistance and a superior paint base. See **pages B-106–B-107** for a complete description of the GoldGalv® hardware finish. GoldGalv® hardware will be furnished if no other finish is specified.

*Standard Finish – GoldGalv®, unless otherwise stated.*

### Design Load lbs.

2,000 lbs. per foot in 3,000 lbs. hard rock concrete with a safety factor of 2.

**NOTE:** B-302 and C-302 are furnished with:

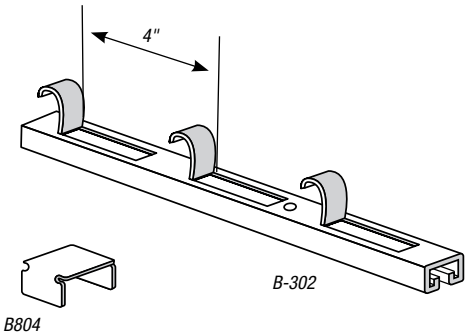
**A.** Concrete safe tape applied to interior of channel to cover holes.

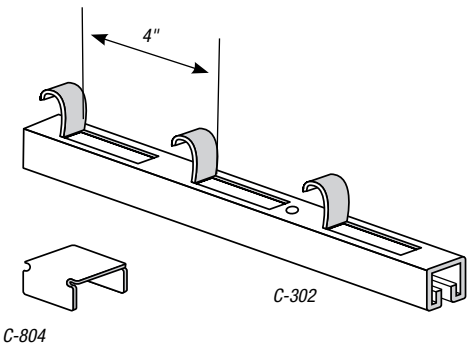
**B.** Styrene insert between tape and 7/8" continuous opening.

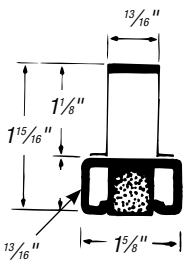
**C.** Two end caps on either side of strut to prevent concrete seepage.

| CAT. NO. | DESCRIPTION |
|---|---|
| **B-302*** | Insert channel 12 ga. steel — 13/16" depth |
| **C-302*** | Insert channel 12 ga. steel — 1 3/8" depth |
| **B804** | End cap in B Series Concrete Insert |
| **C-804** | End cap in C Series Concrete Insert |

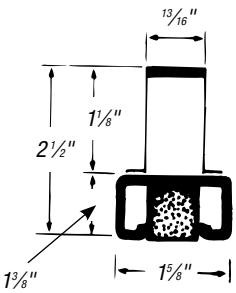
**Add suffix -10 for 10' lengths and -20 for 20' lengths*




B-302




C-302



Thomas&Betts

**United States**
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

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# Concrete Inserts



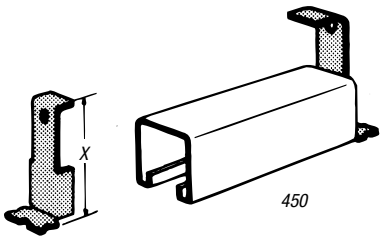
## 450 — End Cap

| CAT. NO. | FOR CHANNEL | X (IN.) | MATERIAL | STD. CTN. |
|---|---|---|---|---|
| C-450TB | C-1,200 | 3 | 12 ga. | 100 |

*Does not come in pairs, order number of total pieces required.*

*Inserts may be assembled from short pieces of channel by use of end caps.*

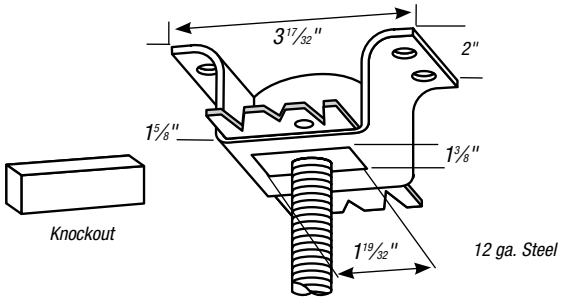
*Order closure strip separately.*



450

## 452-TB — Spot Insert — Top is Deep Drawn Cup

- An insert with a knockout saves covering the opening. Accommodates hanger rod sizes from ¼" through ⅞" by means of an AB-102 insert nut
- Design load: 1,350 lbs. in 3,000 lb. hard rock concrete with a safety factor of 3
- Order AB-102 nut separately

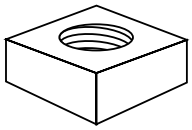


452TB

## AB-102 — Unhardened Square Nut

| CAT. NO. | SIZE (IN.) | STD. CTN. |
|---|---|---|
| AB102 1/4 | ¼ | 50 |
| AB-102-3/8 | ⅜ | 100 |
| AB-102-1/2 | ½ | 100 |
| AB-102-5/8 | ⅝ | 50 |
| AB-1002-3/4 | ¾ | 50 |
| AB-102-7/8 | ⅞ | 50 |

*For use with Spot Insert Cat. No. 452.*


AB-102

## C475 — Metal Deck Ceiling Bolt

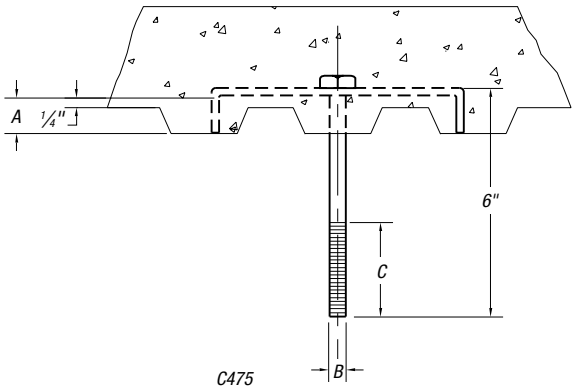
Metal Deck Ceiling Bolts are used with our Figure 123. Rod Couplings ordered separately. Made special to customer order.

**Material:** Steel

**Finish:** Standard Finish – GoldGalv®
Black (add suffix "-B")
Electro-Galvanized (add suffix "-EG")

**Ordering:** Specify size, dimension "A", catalog number and finish.

| CAT. NO. | WT. EACH | A (IN.) | B (IN.) | C (IN.) | MAX. LOAD (LBS.) |
|---|---|---|---|---|---|
| C475 3/8 | .75 | Specify | ⅜ | 1 | 610 |
| C475 1/2 | .97 | | ½ | 1¼ | 1,130 |
| C475 5/8 | 1.11 | | ⅝ | 1½ | 1,810 |
| C475 3/4 | 1.42 | | ¾ | 1¾ | 2,710 |
| C475 7/8 | 2.00 | | ⅞ | 2 | 3,770 |
| C475 1 | 6 | | 1 | 2¼ | 4,960 |



C475

# Superstrut® Beam Clamps



### Materials

Most products are manufactured from hot-rolled carbon steel bars or hot-rolled strip steel. Pipe rollers are cast iron. Products which are copper placed carry the letter "T" in the prefix.

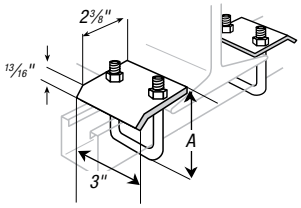
### Design Loads

Where design loads are indicated, they provide for a safety factor of 3 in conformance with the "AMERICAN STANDARD CODE FOR PRESSURE PIPING."

GoldGalv® hardware finish is standard for all Superstrut® products. This is a multi-process finish of electro-plated zinc, followed by gold-colored trivalent chromium to give excellent corrosion resistance and a superior paint base. See **pages B-106–B-107** for a complete description of the GoldGalv® hardware finish. GoldGalv® hardware will be furnished if no other finish is specified.

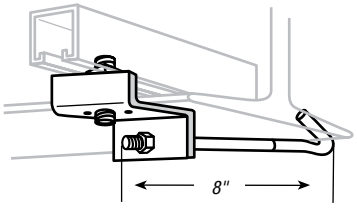
## Beam Clamps for Mounting Channel



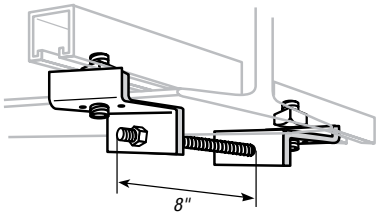



***CAT. NO. U501, U502***
*Furnished complete.*
*Design load U501 – 2,150 lbs.*
*U502 - 3,000 lbs.*

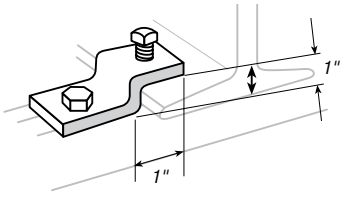
| CAT. NO. | FOR CHANNEL | A (IN.) | STD. CTN. |
|---|---|---|---|
| U501 | A-1200 A-1400<br>B-1200 B-1400<br>C-1200 B-1402 | 3 3/16 | 20 |
| U502 | A-1202 A-1402<br>C-1202 H-1200 | 4 13/16 | 20 |




***U504***

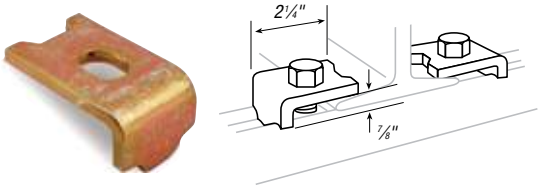



***U505***




***U510***
*½" x 1½" set screw included.*
*Order separately one ½" x 1½" hex head cap screw and ½" channel nut.*

| Channel | Design Load lbs. |
|---|---|
| A-1,200 | 1,000 |
| A-1,400 | 800 |




***512-U***
*Order separately one ½" x 1½" hex head cap screw and ½" channel nut.*

| Channel | Design Load lbs. |
|---|---|
| A-1,200 | 1,000 |
| A-1,400 | 800 |



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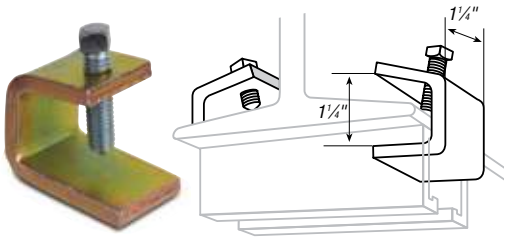
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**Technical Services**
Tel: 888.862.3289

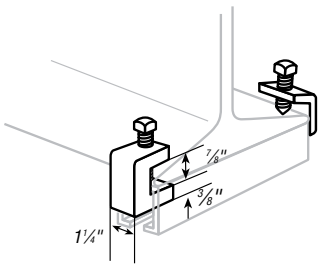
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# Beam Clamps

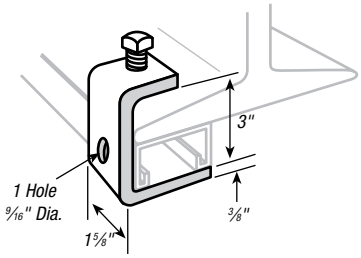




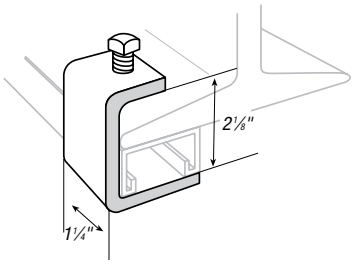

**U514**
*⅜" x 1½" set screw included.*
*Design load 750 lbs./per pair.*



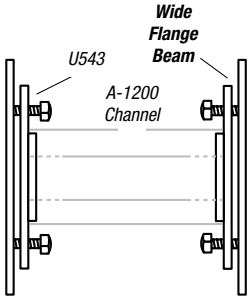

**U514A**
*⅜" x 1½" set screw included.*
*Design load 1,650 lbs./per pair.*

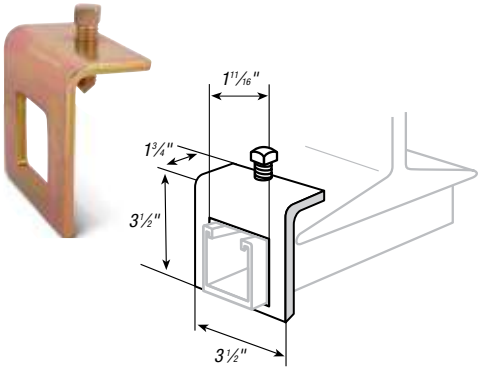



**U515**
*For all "A" series channel.*
*½" x 1½" set screw included.*
*Design load 800 lbs.*




**U515B**
*For all "B" series channel.*
*½" x 1½" set screw included.*
*Design load 800 lbs.*



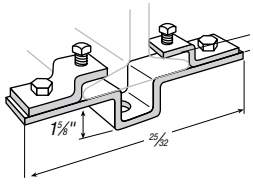




**A-597**
*Standard Finish — GoldGalv® brand.*
*Channel Series A*
*Design load 800 lbs./ea.*

| CAT. NO. | FLANGE WIDTH* (IN.) | A (IN.) | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|---|
| U-520 | 2⅜–4½ | 8¾ | 2,000 | 10 |
| U-521 | 3¾–5¾ | 10 | 1,300 | 10 |
| U-522 | 5⅜–7⅜ | 11⅞ | 900 | 10 |

*When ordering specify flange width.

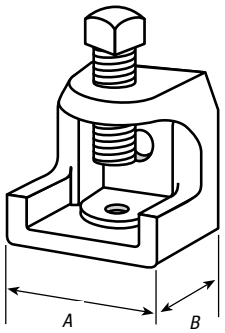
*Standard Finish – GoldGalv®, unless otherwise stated.*




**U520, U-521 & U-522**
*Standard Finish – GoldGalv® brand.*
*Nuts, cap screws and set screws included.*

# Beam Clamps

## Beam Clamps — Malleable Iron, Silver Electroplated Finish




| CAT. NO. | BASE SIZE (IN.) A | BASE SIZE (IN.) B | JAW OPENING (IN.) | TAPPING OF BASE AND BACK HOLES | SET SCREW LOAD RATING‡ | TORQUE IN INCH-LBS. | STD. CTN. |
|---|---|---|---|---|---|---|---|
| **500-SC** | 1 | 1¼ | 1 5/16 | ¼–20 | 250 | 60 | 50 |
| **501** | 1½ | 1⅝ | ⅞ | 5/16–18 | 500 | 60 | 50 |
| **502** | 2 | 2 | 1 | ⅜–16 | 750 | 120 | 50 |
| **503-SC** | 2⅝ | 2½ | 1 | ½–13 | 1,250 | 250 | 20 |
| **507** | 2½ | 2⅜ | 1⅜ | ½–13 | 1,250 | 250 | 20 |
| **508** | 2½ | 2⅜ | 2⅛ | ½–13 | 1,250 | 250 | 10 |
| **509** | 1 | 1¼ | 1 5/16 | 10–24 | 150 | 60 | 100 |
| **510** | 2 7/32 | 1⅛ | ⅝ | ¼–20 | 250 | 40 | 100 |
| **511-SC** | 2 7/32 | 1⅛ | ⅝ | 10–24 | 150 | 40 | 100 |

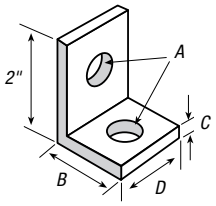
‡*Safety Factor of 3.*

*Load Ratings based on bottom hole of Beam Clamp.*

*CSA File No. LR-52208.*

*Also available in 316 stainless steel.*

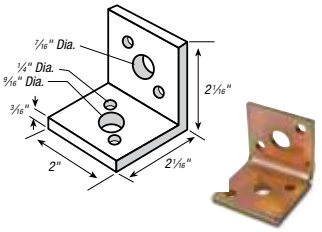
## U-540 — Side Hanger Clip




| CAT. NO. | A (IN.) | B (IN.) | C (IN.) | D (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **540 3/8** | 7/16 | 1⅞ | ¼ | ⅞ | 25 |
| **540 1/2 EC** | 9/16 | 1⅞ | ¼ | 1⅝ | 25 |
| **540-5/8** | 11/16 | 2½ | ⅜ | 2 | 25 |
| **540-3/4** | 13/16 | 2½ | ⅜ | 2 | 25 |

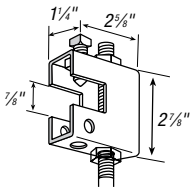
*Finishes – GoldGalv® brand or Black (B)*

## U-542 — Side Hanger Clip

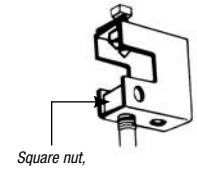



| CAT. NO. | ROD SIZE | DESIGN LOAD (LBS.) |
|---|---|---|
| **544** | ⅜" | 610 |
| | ½" | 1,000 |

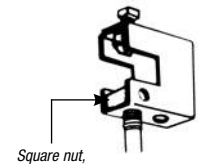
*Finishes – GoldGalv® brand or Black (B) Standard Finish – GoldGalv®, EG, HD, & SS available.*



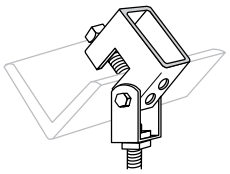

***U562***
*Beam Clamp*
*½" set screw included.*
*Rod Size: ½"*
*Design load 500 lbs.*



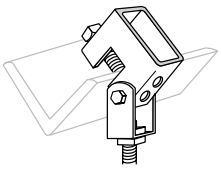

***U562***
*Beam Clamp Optional Use*
*½" set screw included.*
*Rod size: ½"*
*Design load 800 lbs.*
*For 20° swivel application, use ES-145-1/2 nut.*



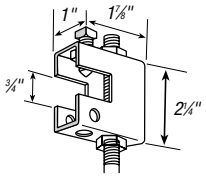

***U563***
*Beam Clamp Optional Use*
*⅜" set screw included.*
*Rod size: ⅜"*
*Design load 400 lbs.*



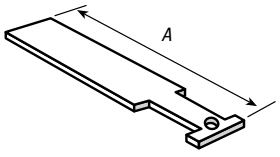
***US563***
*Beam Clamp with Swing Hanger*
*⅜" set screw included.*
*Rod sizes: ⅜"*
*Design load 540 lbs.*



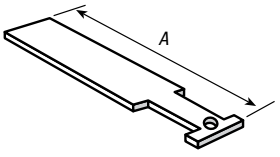
***US562***
*Beam Clamp with Swing Hanger*
*½" screw included.*
*Rod size: ½"*
*Design load 800 lbs.*




***U563***
*Beam Clamp*
*⅜" set screw included.*
*Rod size: ⅜"*
*Design load 250 lbs.*




***U-568***
*Beam Clamp Safety Strap*
*Standard Finish – GoldGalv® brand*
*For U-563 beam clamp.*




***U-568***
*Beam Clamp Safety Strap*
*Standard Finish – GoldGalv® brand*
*For U-562 beam clamp.*



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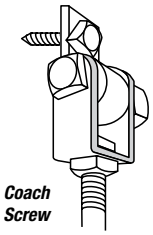
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# Beam Clamps

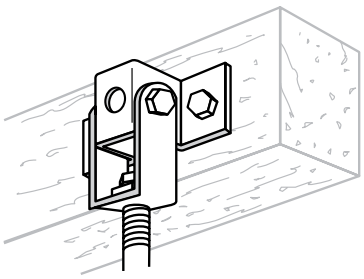


## S-541 — Swing Connector



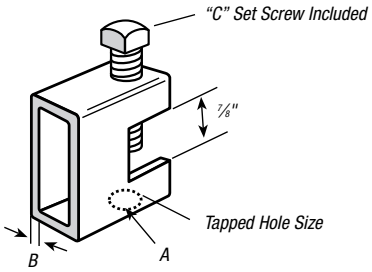

*Standard Finish – GoldGalv® brand*
*Rod Size: ⅜"*
*For use with wood beam.*
*⅜" x 1¾" bolt, nut and clevis included.*

## U-577 — Clevis & Swing Connector



*Rod Size: ½"*
*Standard Finish – GoldGalv® brand*
*For use with wood beam.*

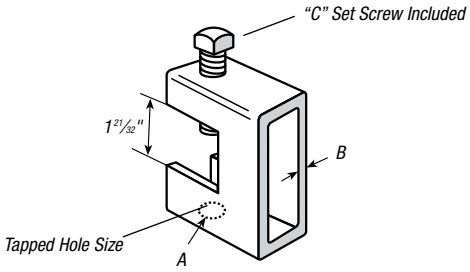
## U-560 — Heavy-Duty Beam Clamp




| CAT. NO. | DIMENSIONS (IN.) A | B | C | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|---|---|
| U560 1/4 | ¼ | ⅛ | ⅜ x 1½ | 1,050 | 25 |
| U-560-3/8 | ⅜ | ⅛ | ⅜ x 1½ | 1,050 | 25 |
| U-560-1/2 | ½ | ¼ | ½ x 1½ | 2,650 | 25 |
| U-560-5/8 | ⅝ | ¼ | ½ x 1½ | 2,650 | 25 |

*Channel Angle Connector. Standard Finish — GoldGalv®.*
*Available in Electro-Galvanized (EG) finish.*
*Integral pilot, prevents twist.*

## U-564 — Heavy-Duty Beam Clamp




| CAT. NO. | DIMENSIONS (IN.) A | B | C | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|---|---|
| U-564-3/8 | ⅜ | ¼ | ⅜ x 2¼ | 1,300 | 25 |
| U-564-1/2 | ½ | ¼ | ½ x 2¾ | 3,150 | 15 |
| U564 5/8 | ⅝ | ¼ | ½ x 2¾ | 3,150 | 25 |

*Available in Electro-Galvanized (EG) finish.*

# Beam Clamps

## E-231 — Structural Steel Clamp

| CAT. NO. | DIMENSIONS (IN.) A | B | C | WT. LBS./C |
|---|---|---|---|---|
| ***⅜" or ½" Rod*** | | | | |
| ***E-231-3/8** | 2½ | 1 | ⅞ | 31 |
| ****E-231-1/2** | 3 | 1 9/32 | 15/16 | 53 |

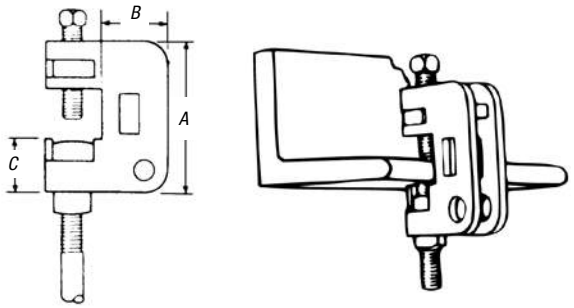
*Assembly requires two H-116-C (⅜") or two H-116-D (½") square nuts to attach hanger rod.*

*½" steel.*

** Load rating of 500 lbs. with a safety factor of 3.*

*** Load rating of 800 lbs. with a safety factor of 3.*

*Standard Finish – GoldGalv®, unless otherwise stated.*




## E-232 — Clamp with Swing Connector

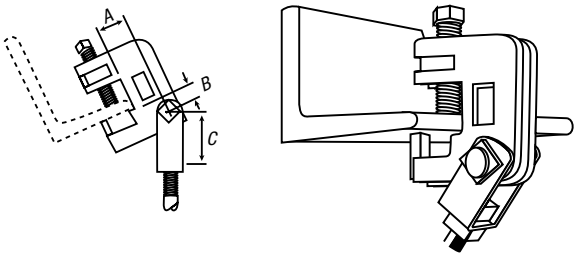
- E-231 clamp with swing connector
- Affords a convenient method of attaching to angled beams

| CAT. NO. | DIAMETER FOR ROD (IN.) | DIMENSIONS (IN.) A | B | C | WT. LBS./C |
|---|---|---|---|---|---|
| ***⅜" or ½" Rod*** | | | | | |
| ***E-232-3/8** | ⅜ | 9/16 | 7/16 | 1 | 48 |
| ****E-232-1/2** | ½ | ⅞ | 29/64 | 1⅝ | 76 |

** Load rating of 400 lbs. with a safety factor of 3.*

*** Load rating of 550 lbs. with a safety factor of 3.*

*GoldGalv® finish.*



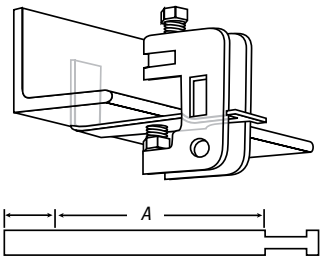

## E-233 — Anchor Clip

- Clamps to I-beams, channels, angles and column
- Two sizes are available, one for ⅜" and the other for ½" hanger rod
- Each takes flanges up to .8" thickness

| CAT. NO. | ROD SIZE (IN.) | MAX. BEAM WIDTH "A" (IN.) | FOR USE WITH | WT. LBS./C |
|---|---|---|---|---|
| **E-233-3/8-6** | ⅜ | 6 | E-231-3/8 or | 20 |
| **E-233-3/8-10** | ⅜ | 10 | E-232-3/8 | 33 |
| **E-233-1/2-6** | ½ | 6 | E-231-1/2 or | 26 |
| **E-233-1/2-10** | ½ | 10 | E-232-1/2 | 37 |

*Anchor Clips should be used when clamps are subject to excessive vibration. To obtain the correct size clips, add 1 inch to the flange width. If length required is not standard, order next largest standard length.*

*GoldGalv® finish.*




*For use with E-231 and E-232 clamps when hanger rod is not in straight through position.*



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# Beam Clamps

## E-160 — Adjustable Beam Clamp

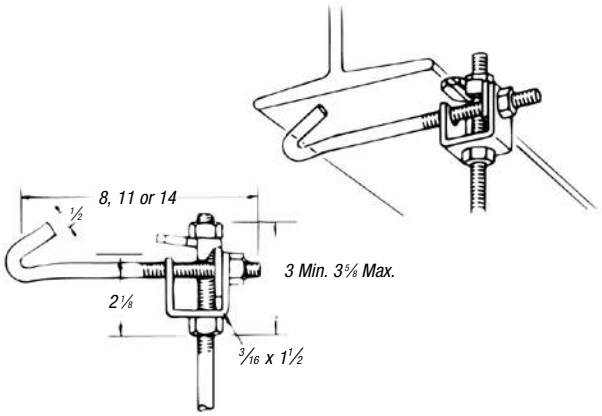
- Clamps to I-beam where edge of beam flange does not exceed .8" thickness
- Hook rod is furnished in three lengths to fit beam flanges up to 6", 9" or 12" widths

| CAT. NO. ½" HANGER RODS | BEAM FLANGE WIDTH (IN.) | WT. LBS./C |
|---|---|---|
| ***½" Rod*** | | |
| **E-160-1/2-6** | 2½ to 6 | 115 |
| **E-160-1/2-9** | 5½ to 9 | 125 |
| **E-160-1/2-12** | 8½ to 12 | 154 |

*Load rating 800 lbs. with a safety factor of 3.*

*Assembly requires hanger rod of the proper length and size plus two H-114-D nuts 3⁄16" steel and ½" hook rod.*

*GoldGalv® finish.*

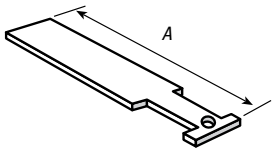



## U-568 Beam Clamps

| CAT. NO. | BEAM FLANGE WIDTH (IN.) | A (IN.) | STD. CTN. |
|---|---|---|---|
| **U568 1** | 6 | 8 | 50 |
| **U-568-2** | 9 | 11 | 50 |
| **U-568-3** | 6 | 9 | 25 |
| **U-568-4** | 9 | 12 | 50 |
| **U-568-5** | 12 | 15 | 50 |
| **U-568-6** | 6 | 9 | 25 |
| **U-568-7** | 9 | 12 | 25 |
| **U-568-8** | 12 | 15 | 25 |

*16 ga. material.*

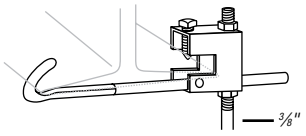
*Standard Finish – GoldGalv®, unless otherwise stated.*




***U-568***
*Beam Clamp Safety Strap*
*Standard Finish — GoldGalv® brand.*
*For U-560 and U-564 beam clamp.*

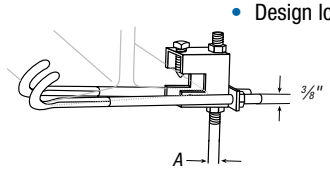
## U569 — Beam Clamp

- Standard finish — GoldGalv®
- Maximum flange width 5"
- Design load 400 lbs.




## U570 — Beam Clamp with Safety Rod

- Standard finish — GoldGalv®
- Flange width 4" min. – 8" max.
- Sizes — ½" (for use with ⅜" rod, see U569)
- Design load 650° F – 500 lbs.




## C-775L — Clamp with Lock Nut

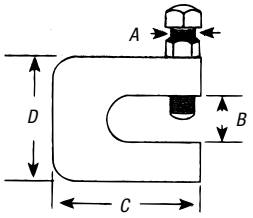
| CAT. NO. | ROD SIZE (IN.) | DIMENSIONS (IN.) A | B | C | D | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|---|---|---|---|
| **C775L 3/8** | ⅜ | ⅜ | ¾ | 2⅜ | 2⅜ | 400 | 100 |
| **C-775L-1/2** | ½ | ⅜ | ¾ | 2⅜ | 2⅜ | 500 | 100 |
| **C-775L-5/8** | ⅝ | ½ | ¾ | 2⁵⁄16 | 2⅜ | 550 | 50 |
| **C-775L-3/4** | ¾ | ⅝ | ¾ | 2⁵⁄16 | 2⅜ | 630 | 50 |
| **C-775L-7/8** | ⅞ | ¾ | 1 | 3⅜16 | 3 | 1,200 | 25 |

*Standard Finishes - GoldGalv® brand, Black (B), Stainless Steel (SS) and Electro-Galvanized (EG).*

*Carbon Steel.*



*C-775L*

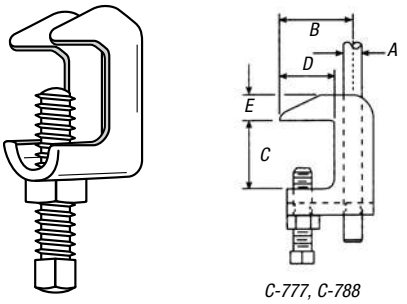


# Beam Clamps

## C-777 — Steel Top Beam Clamp & C-778 — Steel Wide JawTop Beam Clamp

| CAT. NO. | ROD SIZE A (IN.) | PIPE SIZE | DIMENSIONS (IN.) B | C | D | E | F | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|
| C777 3/8 | 3/8 | 1/2–4 | 1 3/16 | 3/4 | 1 | 7/16 | 1 | 900 | 100 |
| C-777-1/2 | 1/2 | 5–8 | 1 1/2 | 3/4 | 1 | 9/16 | 1 1/4 | 2,430 | 50 |
| C-778-3/8 | 3/8 | 1/2–4 | 1 3/16 | 1 1/4 | 1 | 7/16 | 1 | 900 | 100 |
| C-778-1/2 | 1/2 | 5–8 | 1 1/2 | 1 1/4 | 1 | 9/16 | 1 1/4 | 2,430 | 50 |

*Standard Finish – GoldGalv®, Black (B) and Electro-Galvanized (EG).*

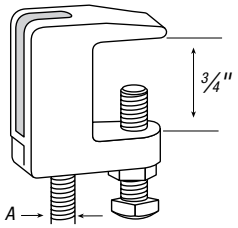


C-777, C-788

## M-777 — Steel Top Beam Clamp

- Junior Top Beam C-Clamp
- Standard finish is Gold-Galv®
- Available in Electro-Galvanized (EG) or Black (B) Malleable Iron
- Provides clamping under roof installations with bar joist construction (max. joist thickness 5/8")
- Order by Cat. No., rod size

| ROD SIZE A (IN.) | DESIGN LOAD LBS. |
|---|---|
| 3/8 | 350 |
| 1/2 | 470 |
| 5/8 | 550 |
| 3/4 | 700 |
| 7/8 | 1,000 |

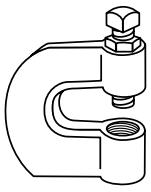


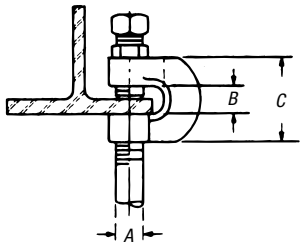
M-777

## M-775L — Clamp with Lock Nut

| CAT. NO. | ROD SIZE A (IN.) | B (IN.) | C (IN.) | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|---|---|
| M-775L-3/8 | 3/8 | 3/4 | 1 3/4 | 400 | 100 |
| M-775L-1/2 | 1/2 | 3/4 | 1 3/4 | 400 | 100 |
| M-775L-5/8 | 5/8 | 3/4 | 2 | 440 | 50 |
| M-775L-3/4 | 3/4 | 3/4 | 2 | 500 | 50 |

*Available in Electro-Galvanized (EG) or Black (B).*

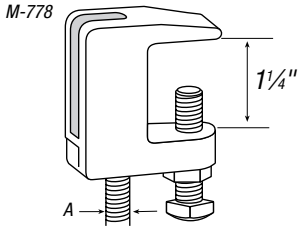

M-775L




## M-778 — Steel Wide Jaw Top Clamp

- Top Beam C-Clamp
- Rod Size: 3/8", 1/2", 5/8" and 3/4"
- Available in Electro-Galvanized (EG) or Black (B) Malleable Iron
- Provides clamping under roof installations with bar joist type construction
- Order by Cat. No. and rod size

| ROD SIZE A (IN.) | DESIGN LOAD LBS. |
|---|---|
| 3/8 | 400 |
| 1/2 | 500 |
| 5/8 | 850 |
| 3/4 | 900 |






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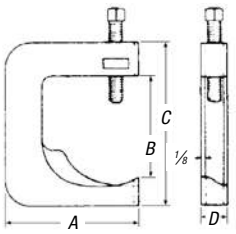
# Beam Clamps

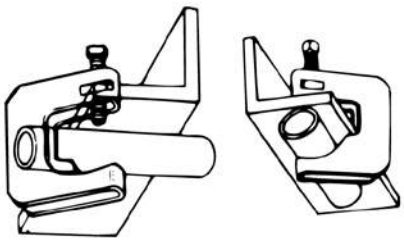
## C-247, C-248 & C-249 — Steel Conduit Clamps

- A versatile clamp for attaching conduit to any type of beam, channel, angle or column
- Designed to hold the conduit snug against the support with conduit either parallel or at right angle to it
- The case-hardened set screw bites into the structural member for maximum security
- ⅛" steel

| CONDUIT SIZE | MAX. BEAM C-247 | FLANGE C-248 | THICKNESS C-249 |
|---|---|---|---|
| ½ | ⅝ | 1 | |
| ¾ | 7/16 | ¾ | 1½ |
| 1 | | ½ | 1¼ |
| 1¼ | | 1 | |
| 1½ | | | ⅝ |
| Dim. A | 2¼ | 2 9/16 | 3¼ |
| Dim. B | 1⅜ | 1¾ | 2½ |
| Dim. C | 2¾ | 3 | 4 |
| Dim. D | 9/16 | 9/16 | ⅝ |
| Per Carton | 100 | 50 | 50 |
| Wt. in lbs./C | 33 | 36 | 59 |

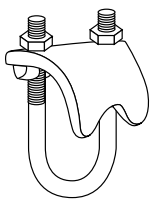
*Standard Finish – GoldGalv®, unless otherwise stated.*



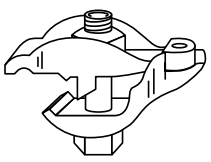



## Pipe Supports

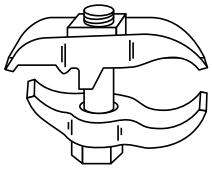
Three types of pipe clamps are available to provide right angle, vertical and parallel attachment to a beam. Types RC, EC and PC are malleable iron clamps with an edge that grips the structural member for maximum holding power when tightened.



- RC Clamp — Malleable Iron
- RCS Clamp — Steel
- For mounting pipe or conduit at right angles to the beam
- Use SS316 suffix for 316 Stainless Steel
- Use HDG suffix for hot-dip galvanized



- EC Clamp — Malleable Iron
- For mounting pipe or conduit vertically across the beam
- Use SS316 suffix for 316 Stainless Steel
- Use HDG suffix for hot-dip galvanized



- PC Clamp — Malleable Iron
- For mounting pipe or conduit parallel to the beam
- Use SS316 suffix for 316 Stainless Steel
- Use HDG suffix for hot-dip galvanized

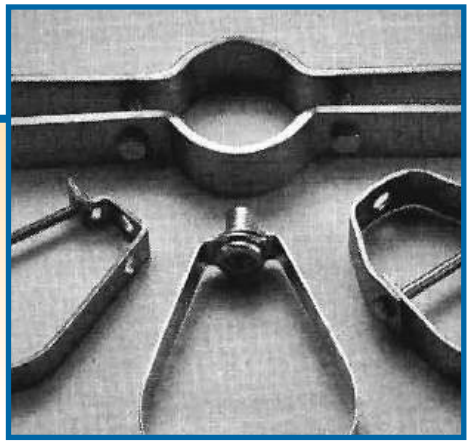
Type RCS clamps are all steel, providing two bearing surfaces for strong attachment for mounting pipe or conduit at right angles to the beam.

All parts are electrogalvanized, including the threads. The clamps are designed for clamping to a wide variety of beam thicknesses and tapers. Can be installed using only a wrench.

| CAT. NO. & SIZE | DIMENSIONS (IN.) O.D. OF CONDUIT OR PIPE | DIMENSIONS (IN.) NOM. CONDUIT PIPE SIZE | STD. CTN. |
|---|---|---|---|
| **RCS-1/2** | .840 | ½ | 50 |
| **RCS-3/4** | 1.050 | ¾ | 50 |
| **RCS-1** | 1.315 | 1 | 50 |
| **RCS-1-1/4** | 1.660 | 1¼ | 50 |
| **RCS-1-1/2** | 1.900 | 1½ | 50 |
| **RCS-2** | 2.375 | 2 | 50 |
| **RC-3/8** | .675 | ⅜ | 50 |
| **RC-1/2** | .840 | ½ | 50 |
| **RC-3/4** | 1.050 | ¾ | 50 |
| **RC-1** | 1.315 | 1 | 50 |
| **RC-1-1/4** | 1.660 | 1¼ | 50 |
| **RC-1-1/2** | 1.900 | 1½ | 50 |
| **RC-2-SC** | 2.375 | 2 | 50 |
| **RC-2-1/2** | 2.875 | 2½ | 25 |
| **RC-3** | 3.500 | 3 | 25 |
| **RC-3-1/2** | 4.000 | 3½ | 25 |
| **RC-4-SC** | 4.500 | 4 | 20 |

| CAT. NO. & SIZE | DIMENSIONS (IN.) O.D. OF CONDUIT OR PIPE | DIMENSIONS (IN.) NOM. CONDUIT PIPE SIZE | STD. CTN. |
|---|---|---|---|
| **EC-1/2** | .840 | ½ | 50 |
| **EC-3/4** | 1.050 | ¾ | 50 |
| **EC-1** | 1.315 | 1 | 25 |
| **EC-1-1/4** | 1.660 | 1¼ | 25 |
| **EC-1-1/2** | 1.900 | 1½ | 25 |
| **EC-2** | 2.375 | 2 | 25 |
| **EC-2-1/2** | 2.875 | 2½ | 10 |
| **EC-3** | 3.500 | 3 | 10 |
| **PC-3/8** | .675 | ⅜ | 50 |
| **PC 1/2** | .840 | ½ | 50 |
| **PC-3/4** | 1.050 | ¾ | 50 |
| **PC-1** | 1.315 | 1 | 50 |
| **PC-1-1/4** | 1.660 | 1¼ | 25 |
| **PC-1-1/2** | 1.900 | 1½ | 25 |
| **PC-2** | 2.375 | 2 | 25 |
| **PC-2-1/2** | 2.875 | 2½ | 25 |
| **PC-3** | 3.500 | 3 | 10 |
| **PC-3-1/2** | 4.00 | 3½ | 10 |
| **PC-4** | 4.500 | 4 | 10 |

# Excellent Corrosion Resistance and a Superior Paint Base



GoldGalv® hardware finish is standard for all Superstrut® products. This is a multi-process finish of electro-plated zinc, followed by gold-colorized trivalent chromium to give excellent corrosion resistance and a superior paint base. See **pages B-106–B-107** for a complete description of the GoldGalv® hardware finish. GoldGalv® hardware will be furnished if no other finish is specified.

### Materials

Most products are manufactured from hot-rolled carbon steel bars or hot-rolled strip steel. Pipe rollers are cast iron. Products which are copper plated carry the letter "T" in the prefix.

### Design Loads

Where design loads are indicated, they provide for a safety factor of 3 in conformance with the "AMERICAN STANDARD CODE FOR PRESSURE PIPING."

### Hanger Design

Pipe hangers are of advanced design and afford a new and better way of ordinary use.

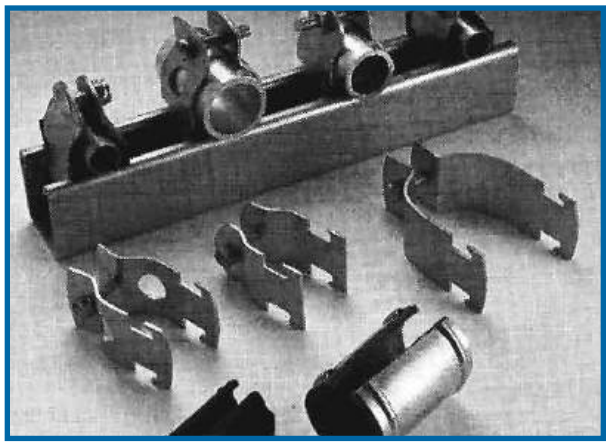
### Standard Dimensions

The following, except where noted, apply to all beam clamp fittings.

Hole Size: 9/16" diameter

Material: 1 5/8" wide

Material: 1/4" thick



### ASTM G-87-84 Corrosion Test Results

| FINISH | INITIAL RED RUST | 50% RED RUST | 100% RED RUST |
|---|---|---|---|
| ***Test Series I: Light-Duty Adjustable Clevis Hanger*** | | | |
| GoldGalv® | 120 hours | 216 hours | *Never obtained |
| Copper Plated | 24 hours | 48 hours | 72 hours |
| ***Test Series II: O.D. Pipe Straps*** | | | |
| GoldGalv® | 168 hours | 192 hours | 240 hours |
| Copper plated | 24 hours | 48 hours | 168 hours |

**Test series ended after 360 hours.*

*Standard Finish – GoldGalv®, unless otherwise stated.*

### GoldGalv® Outperforms Copper Plated

In a test conforming to ASTM G-87-84, also known as the Kesternich Test, Superstrut's GoldGalv® electrogalvanized zinc trivalent chromium finish achieved superior corrosion resistance in comparison to copper plated.

Performed and certified by an independent testing laboratory, the stringent Kesternich test is equivalent to an acid rain environment. The test procedure exposes subject material to condensed moisture containing harsh sulfur dioxide (S02) which accelerates the aging process. During the series of test time cycles, the material is thoroughly inspected for signs and progression of damaging red rust.

The first test series conducted included various light-duty adjustable clevis hangers assembled to copper tubing. The GoldGalv® finish exhibited five times the red rust resistance as compared to copper plated.

The second test series was performed on various O.D. pipe straps attached to copper tubing and continuous slot channel. GoldGalv® achieved greater red dust resistance by seven times over copper plating.

Once tests were completed, all copper tubes were split open and inspected for signs of electrolysis. The copper tubes showed minimal deterioration as a result of the test and no indication of electrolysis occurrence when attached to material with GoldGalv® finish.



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# The new standard for heavy-duty applications.

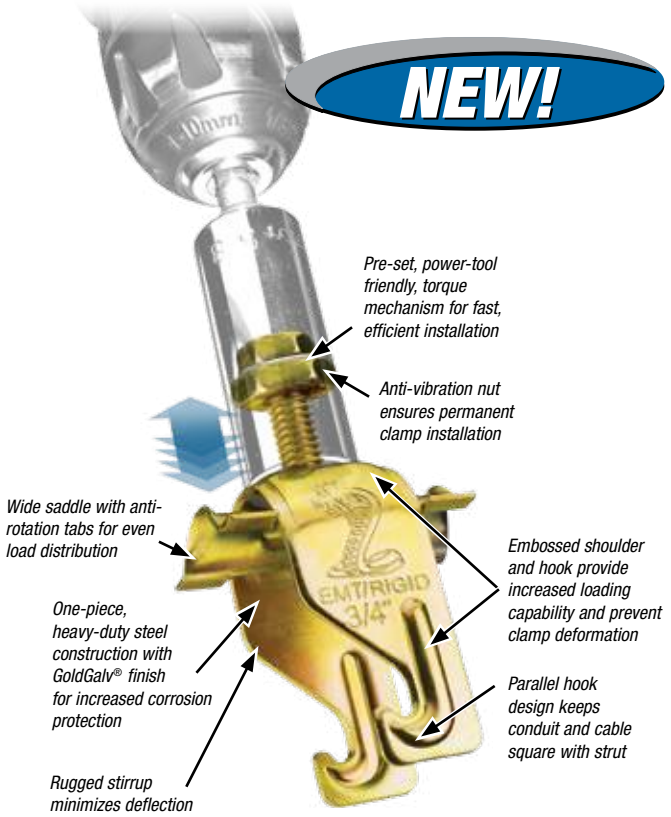
## LOC-KING™ Cobra® One-Piece Cable and Pipe Clamp

The LOC-KING™ Cobra® heavy-duty pipe and cable clamp adds two new design innovations to the heavy-duty features of the original King Cobra® clamp.

First, a pre-set torque mechanism takes the guesswork out of installation, ensuring optimum torque and eliminating excess pressure on cables. Since the torque is pre-set, LOC-KING™ Cobra® clamps are ideally suited for use with power tools, making installation faster and more efficient than ever.

Second, the incorporation of an anti-vibration nut means that once installed, LOC-KING™ Cobra® clamps remain securely installed, even in high-vibration environments.

- Designed to be used on tray cable, Teck cable, metal-clad cable and armored cable
- Power-tool compatible for fast and efficient installation
- Pre-set torque mechanism takes the guesswork out of installation, delivering optimum torque even when using power tools
- Pre-set torque prevents over-tightening and excess pressure
- Anti-vibration nut ensures permanent installation, even in high-vibration environments
- Superior design load capabilities for heavy-duty applications: 350 lbs. for ½"–2½" trade sizes; 450 lbs. for 3"–4" trade sizes






Position LOC-KING™ Cobra® clamp.



Using a power tool fitted with a ⅝" (16mm) socket, tighten lock nut...



...until it 'blocks' and will no longer turn. Installation is complete.



See Ratings in the Table Below

***Note:*** *When pre-set torque engages, lock-nut separates from bolt head and stops firmly against clamp body.*

| CAT. NO. | FOR EMT AND RIGID CONDUIT TRADE SIZES | CABLE O.D. RANGE (IN.) | ARROW #1 LOAD RATING* | ARROW #2 SLIP RATING** | ARROW #3 PULL RATING** | QUANTITY PER BOX |
|---|---|---|---|---|---|---|
| **LKCPC050** | ½ | .650–.890 | 350 lbs. | 50 lbs. | 50 lbs. | 100 |
| **LKCPC075** | ¾ | .860–1.110 | 350 lbs. | 50 lbs. | 50 lbs. | 100 |
| **LKCPC100** | 1 | 1.100–1.400 | 350 lbs. | 50 lbs. | 50 lbs. | 100 |
| **LKCPC125** | 1¼ | 1.400–1.725 | 350 lbs. | 50 lbs. | 50 lbs. | 50 |
| **LKCPC150** | 1½ | 1.690–1.980 | 350 lbs. | 50 lbs. | 50 lbs. | 50 |
| **LKCPC200** | 2 | 1.980–2.576 | 350 lbs. | 50 lbs. | 50 lbs. | 50 |
| **LKCPC250** | 2½ | 2.576–3.060 | 350 lbs. | 50 lbs. | 50 lbs. | 25 |
| **LKCPC300** | 3 | 3.060–3.626 | 450 lbs. | 50 lbs. | 50 lbs. | 25 |
| **LKCPC350** | 3½ | 3.626–4.126 | 450 lbs. | 50 lbs. | 50 lbs. | 25 |
| **LKCPC400** | 4 | 4.126–4.626 | 450 lbs. | 50 lbs. | 50 lbs. | 25 |

** Safety Factor of 4* *** Safety Factor of 1*

## Pipe Straps, Conduit Clamps and Hangers

# The new specification standard for heavy-duty industrial applications.

NEW!

## King Cobra® Cable and Pipe Clamp with GoldGalv® Finish



- Superior design load capabilities for industrial applications: 350 lbs. for ½" to 2½" trade sizes; 450 lbs. for 3" to 4" trade sizes
- Durable one-piece heavy-duty steel construction — designed specifically for use in industrial applications
- Embossed shoulder and hooks increase loading capability and durability, preventing deformation of clamps
- Rugged stirrup provides increased strength for heavier loads, minimizing deflection
- Wider saddle design with anti-rotation tabs distributes load evenly over a larger surface area, preventing jacket damage
- Increased corrosion protection* — GoldGalv® (yellow zinc trivalent) finish stands up to harsh industrial applications
- Parallel hook design keeps conduit and cable square with strut
- Heavy-duty 5/16" hex bolt
- One clamp size works on equal trade sizes for both EMT and rigid conduit, simplifying clamp specification

** Compared to conventional electrogalvanization.*

| CAT. NO. | FOR EMT AND RIGID CONDUIT TRADE SIZE (IN.) | CABLE O.D. RANGE (IN.) | STATIC LOAD LIMIT (LB) SAFETY FACTOR = 4 | STD. CTN. |
|---|---|---|---|---|
| *GoldGalv® Finish* | | | | |
| **KCPC050** | ½ | .650–.890 | 350 | 100 |
| **KCPC075** | ¾ | .860–1.110 | 350 | 100 |
| **KCPC100** | 1 | 1.100–1.400 | 350 | 100 |
| **KCPC125** | 1¼ | 1.400–1.725 | 350 | 50 |
| **KCPC150** | 1½ | 1.690–1.980 | 350 | 50 |
| **KCPC200** | 2 | 1.980–2.576 | 350 | 50 |
| **KCPC250** | 2½ | 2.576–3.060 | 350 | 25 |
| **KCPC300** | 3 | 3.060–3.626 | 450 | 25 |
| **KCPC350** | 3½ | 3.626–4.126 | 450 | 25 |
| **KCPC400** | 4 | 4.126–4.626 | 450 | 25 |

*Standard Finish — GoldGalv®*

## Cobra® One-Piece Cable and Pipe Clamp

**Takes a bite out of your installation time!**



- One-piece heavy-duty construction ready to install right out of the box, no need to break apart and reassemble, no screws or bolts to drop
- Installs quickly and securely using one hand
- Universal bolt head accepts a range of tools
- Eliminates the guesswork from clamp selection — one catalog number attaches equal trade sizes of EMT and rigid conduit
- Parallel hook design keeps conduits and cable square with strut
- Reconfigure wiring without complete disassembly. Remove cables easily without disturbing neighboring clamps



| CAT. NO. | FOR EMT AND RIGID CONDUIT TRADE SIZE (IN.) | CABLE O.D. RANGE (IN.) | STATIC LOAD LIMIT (LB) SAFETY FACTOR = 4 | STD. CTN. |
|---|---|---|---|---|
| *EG Silver Finish* | | | | |
| **CPC025** | ¼ | .312–.600 | 200 | 100 |
| **CPC050** | ½ | .650–.890 | 200 | 100 |
| **CPC075** | ¾ | .860–1.110 | 200 | 100 |
| **CPC100** | 1 | 1.100–1.400 | 200 | 100 |
| **CPC125** | 1¼ | 1.400–1.725 | 200 | 50 |
| **CPC150** | 1½ | 1.690–1.980 | 200 | 50 |
| **CPC200** | 2 | 1.980–2.576 | 200 | 50 |
| **CPC250** | 2½ | 2.576–3.060 | 350 | 25 |
| **CPC300** | 3 | 3.060–3.626 | 350 | 25 |
| **CPC350** | 3½ | 3.626–4.126 | 350 | 25 |
| **CPC400** | 4 | 4.126–4.626 | 350 | 25 |

*Stainless Steel: add suffix SS6.*



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## Pipe Straps, Conduit Clamps and Hangers

# Pre-assembled for easy handling and sorting.

# Superstrut® Pipe Straps

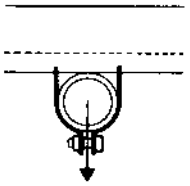
Superstrut® Pipe Straps are designed to be twist inserted anywhere along the slot side of the channel. Pipes can be placed as closely as pipe couplings permit.



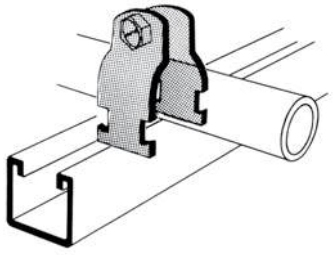
**Some unique features of the straps include:**

- Bolt head is combination slot and hex head for flexibility of attachment
- Square nut is captivated on the shoulder for easy one-handed tightening
- Straps are interchangeable with 1½" strut for broader application
- Straps are shipped assembled so counting and sorting are easier
- Pipe or conduit sizes are shown on the strap for easy identification
- All Superstrut® Straps are preassembled for easy handling and sorting

*Design Loads*



## 700 — Superstrut® Straps for EMT



| CAT. NO. | EMT SIZE (IN.) | O.D. SIZE (IN.) | STEEL STRAP THICKNESS | DESIGN LOAD (LBS.) | STD. CTN. |
|---|---|---|---|---|---|
| 700 3/8-STR | ⅜ | .577 | 14 ga. | 750 | 100 |
| 700-1/2-STR | ½ | .706 | 14 ga. | 750 | 100 |
| 700-3/4-STR | ¾ | .922 | 14 ga. | 750 | 100 |
| 700-1-STR | 1 | 1.163 | 14 ga. | 750 | 100 |
| 700-1-1/4-STR | 1¼ | 1.510 | 14 ga. | 750 | 50 |
| 700-1-1/2-STR | 1½ | 1.740 | 12 ga. | 800 | 50 |
| 700-2-STR | 2 | 2.197 | 12 ga. | 800 | 50 |

*Standard Finish – GoldGalv®*

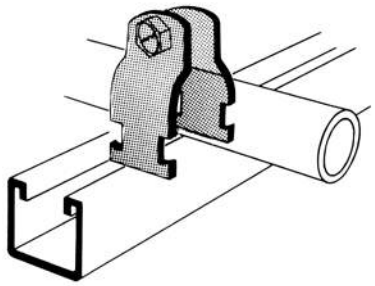
## 701 — Superstrut® Straps for O.D. Tubing

| CAT. NO. | TUBING O.D. (IN.) | STEEL STRAP THICKNESS | DESIGN LOAD (LBS.) | STD. CTN |
|---|---|---|---|---|
| 701-1/4 | ¼ | 14 ga. | 750 | 100 |
| 701-3/8 | ⅜ | 14 ga. | 750 | 100 |
| 701-1/2-STR | ½ | 14 ga. | 750 | 100 |
| 701-5/8 | ⅝ | 14 ga. | 750 | 100 |
| 701-3/4 | ¾ | 14 ga. | 750 | 100 |
| 701-7/8 | ⅞ | 14 ga. | 750 | 100 |
| 701-1-STR | 1 | 14 ga. | 750 | 50 |
| 701-1-1/8 | 1⅛ | 14 ga. | 1,000 | 100 |
| 701-1-1/4 | 1¼ | 14 ga. | 1,000 | 25 |
| 701-1-3/8 | 1⅜ | 14 ga. | 1,000 | 100 |
| 701-1-1/2 | 1½ | 14 ga. | 1,000 | 25 |
| 701-1-5/8 | 1⅝ | 14 ga. | 1,000 | 100 |
| 701-1-3/4 | 1¾ | 12 ga. | 1,000 | 25 |
| 701-1-7/8 | 1⅞ | 12 ga. | 1,000 | 50 |
| 701-2 | 2 | 12 ga. | 1,000 | 50 |
| 701-2-1/8 | 2⅛ | 12 ga. | 1,300 | 50 |
| 701-2-1/4 | 2¼ | 12 ga. | 1,300 | 25 |
| 701-2-3/8 | 2⅜ | 12 ga. | 1,300 | 25 |
| 701-2-1/2 | 2½ | 12 ga. | 1,300 | 25 |
| 701-2-5/8 | 2⅝ | 12 ga. | 1,300 | 50 |

*(continued on following page)*

# Pipe Straps, Conduit Clamps and Hangers

## 701 — Superstrut® Straps for O.D. Tubing *(continued)*



| CAT. NO. | TUBING O.D. (IN.) | STEEL STRAP THICKNESS | DESIGN LOAD (LBS.) | STD. CTN |
|---|---|---|---|---|
| 701-2-3/4 | 2¾ | 12 ga. | 1,300 | 25 |
| 701-2-7/8 | 2⅞ | 12 ga. | 1,300 | 25 |
| 701-3 | 3 | 12 ga. | 1,300 | 25 |
| 701-3-1/8 | 3⅛ | 12 ga. | 1,300 | 25 |
| 701-3-1/4 | 3¼ | 12 ga. | 1,300 | 25 |
| 701-3-3/8 | 3⅜ | 12 ga. | 1,300 | 25 |
| 701-3-1/2 | 3½ | 12 ga. | 1,300 | 25 |
| 701-3-5/8 | 3⅝ | 11 ga. | 1,650 | 25 |
| 701-3-3/4 | 3¾ | 11 ga. | 1,650 | 25 |
| 701-3-7/8 | 3⅞ | 11 ga. | 1,650 | 25 |
| 701-4 | 4 | 11 ga. | 1,650 | 25 |
| 701-4-1/8 | 4⅛ | 11 ga. | 1,650 | 25 |
| 701-4-1/4 | 4¼ | 11 ga. | 1,650 | 25 |
| 701-4-3/8 | 4⅜ | 11 ga. | 1,650 | 25 |
| 701-4-1/2 | 4½ | 11 ga. | 1,650 | 10 |
| 701-4-5/8 | 4⅝ | 11 ga. | 1,650 | 10 |
| 701-4-3/4 | 4¾ | 11 ga. | 1,650 | 10 |
| 701-4-7/8 | 4⅞ | 11 ga. | 1,650 | 10 |
| 701-5 | 5 | 11 ga. | 1,650 | 25 |
| 701-5-1/8 | 5⅛ | 11 ga. | 1,650 | 10 |
| 701-5-1/4 | 5¼ | 11 ga. | 1,650 | 10 |
| 701-5-3/8 | 5⅜ | 11 ga. | 1,650 | 10 |
| 701-5-1/2 | 5½ | 11 ga. | 1,650 | 10 |
| 701-5-5/8 | 5⅝ | 10 ga. | 1,650 | 10 |
| 701-5-3/4 | 5¾ | 10 ga. | 1,650 | 10 |
| 701-5-7/8 | 5⅞ | 10 ga. | 1,650 | 10 |
| 701-6 | 6 | 10 ga. | 1,650 | 10 |
| 701-6-1/8 | 6⅛ | 10 ga. | 1,650 | 10 |
| 701-6-1/4 | 6¼ | 10 ga. | 1,650 | 10 |
| 701-6-3/8 | 6⅜ | 10 ga. | 1,650 | 10 |
| 701-6-1/2 | 6½ | 10 ga. | 1,650 | 10 |
| 701-6-5/8 | 6⅝ | 10 ga. | 1,650 | 10 |
| 701-6-3/4 | 6¾ | 10 ga. | 1,650 | 10 |
| 701-6-7/8 | 6⅞ | 10 ga. | 1,650 | 10 |
| 701-8 | 8 | 10 ga. | 1,650 | 10 |

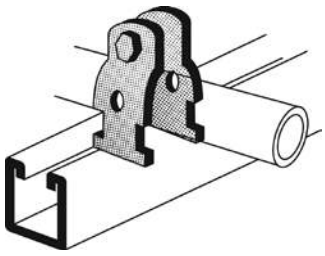
## 702 — Superstrut® Straps for Rigid Conduit, IMC and Pipe

- For Rigid or IMC Conduit, Pipe and Electric Metal Tubing (EMT)

| CAT. NO. | RIGID CONDUIT OR PIPE SIZE (IN.) | O.D. SIZE (IN.) | STEEL STRAP THICKNESS | DESIGN LOAD (LBS.) | STD. CTN. |
|---|---|---|---|---|---|
| 702-3/8 | ⅜ | .675 | 14 ga. | 750 | 100 |
| 702-1/2 | ½ | .840 | 14 ga. | 750 | 100 |
| 702-3/4 | ¾ | 1.050 | 14 ga. | 750 | 100 |
| 702-1 | 1 | 1.315 | 14 ga. | 750 | 100 |
| 702-1-1/4 | 1¼ | 1.660 | 14 ga. | 800 | 50 |
| 702-1-1/2 | 1½ | 1.900 | 12 ga. | 800 | 50 |
| 702-2-STR | 2 | 2.375 | 12 ga. | 800 | 50 |
| 702-2-1/2 | 2½ | 2.875 | 12 ga. | 1,000 | 50 |
| 702-3 | 3 | 3.500 | 12 ga. | 1,650 | 50 |
| 702-3-1/2 | 3½ | 4.000 | 11 ga. | 1,650 | 25 |
| 702-4 | 4 | 4.500 | 11 ga. | 1,650 | 25 |
| 702-4-1/2 | 4½ | 5.000 | 11 ga. | 1,650 | 25 |
| 702-5 | 5 | 5.563 | 11 ga. | 1,650 | 25 |
| 702-6 | 6 | 6.625 | 11 ga. | 1,650 | 10 |
| 702-8 | 8 | 8.625 | 11 ga. | 1,650 | 10 |
| 702-10 | 10 | 10.750 | 10 ga. | 1,650 | 25 |
| 702-12 | 12 | 12.750 | 10 ga. | 1,650 | 25 |

*Standard Finish – GoldGalv® brand. For Electro-Galvanized (Silver), add EG suffix.*

## 703 — Universal Clamp



| CAT. NO. | PIPE O.D. (IN.) | STEEL STRAP THICKNESS | DESIGN LOAD (LBS.) | STD. CTN. |
|---|---|---|---|---|
| 703-1/2 | .706–.840 | 16 ga. | 400 | 100 |
| 703-3/4 | .932–1.050 | 14 ga. | 550 | 100 |
| 703 1 | 1.163–1.315 | 14 ga. | 550 | 100 |
| 703-1-1/4 | 1.508–1.660 | 14 ga. | 800 | 50 |
| 703-1-1/2 | 1.738–1.900 | 14 ga. | 800 | 50 |
| 703-2 | 2.195–2.375 | 14 ga. | 800 | 50 |

*Standard Finish – GoldGalv®*



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## Pipe Straps, Conduit Clamps and Hangers

### Angled for easy tightening!

# Angler® Pipe and Conduit Clamp





**Universal Series — for EMT, IMC, Rigid and Standard Pipe**

| CAT. NO. | SIZE (IN.) | STRAP THICKNESS | DESIGN LOAD (LBS.) | INSTALL TORQUE (IN. LBS.) | STD. CTN. |
|---|---|---|---|---|---|
| *GoldGalv® Finish* | | | | | |
| C 109 1/2 | ½ | 14 ga. | 400 | 40 | 100 |
| C 109 3/4 | ¾ | 14 ga. | 500 | 40 | 100 |
| C 109 1 | 1 | 14 ga. | 500 | 40 | 100 |
| C 109 1 1/4 | 1¼ | 14 ga. | 500 | 40 | 100 |
| C 109 1 1/2 | 1½ | 12 ga. | 800 | 60 | 50 |
| C 109 2 | 2 | 12 ga. | 800 | 60 | 50 |
| C 109 2 1/2 | 2½ | 12 ga. | 800 | 60 | 50 |
| C 109 3 | 3 | 12 ga. | 800 | 60 | 50 |
| C 109 3 1/2 | 3½ | 11 ga. | 1,200 | 60 | 25 |
| C 109 4 | 4 | 11 ga. | 1,200 | 60 | 25 |
| *SilverGalv® Finish* | | | | | |
| C 109 1/2 EG | ½ | 14 ga. | 400 | 40 | 100 |
| C 109 3/4 EG | ¾ | 14 ga. | 500 | 40 | 100 |
| C 109 1 EG | 1 | 14 ga. | 500 | 40 | 100 |
| C 109 1 1/4 EG | 1¼ | 14 ga. | 500 | 40 | 100 |
| C 109 1 1/2 EG | 1½ | 12 ga. | 800 | 60 | 50 |
| C 109 2 EG | 2 | 12 ga. | 800 | 60 | 50 |
| C 109 2 1/2 EG | 2½ | 12 ga. | 800 | 60 | 50 |
| C 109 3 EG | 3 | 12 ga. | 800 | 60 | 50 |
| C 109 3 1/2 EG | 3½ | 11 ga. | 1,200 | 60 | 25 |
| C 109 4 EG | 4 | 11 ga. | 1,200 | 60 | 25 |

**Rigid Series — for Rigid Conduit and Standard Pipe**

| CAT. NO. | SIZE (IN.) | STRAP THICKNESS | DESIGN LOAD (LBS.) | INSTALL TORQUE (IN. LBS.) | STD. CTN. |
|---|---|---|---|---|---|
| *GoldGalv® Finish* | | | | | |
| C 109R 1/2 | ½ | 14 ga. | 600 | 40 | 100 |
| C 109R 3/4 | ¾ | 14 ga. | 600 | 40 | 100 |
| C 109R 1 | 1 | 14 ga. | 600 | 40 | 100 |
| C 109R 1 1/4 | 1¼ | 14 ga. | 600 | 40 | 100 |
| C 109R 1 1/2 | 1½ | 12 ga. | 800 | 60 | 50 |
| C 109R 2 | 2 | 12 ga. | 800 | 60 | 50 |
| C 109 2 1/2 | 2½ | 12 ga. | 800 | 60 | 50 |
| C 109 3 | 3 | 12 ga. | 800 | 60 | 50 |
| C 109 3 1/2 | 3½ | 11 ga. | 1,200 | 60 | 25 |
| C 109 4 | 4 | 11 ga. | 1,200 | 60 | 25 |
| *SilverGalv® Finish* | | | | | |
| C 109R 1/2 EG | ½ | 14 ga. | 600 | 40 | 100 |
| C 109R 3/4 EG | ¾ | 14 ga. | 600 | 40 | 100 |
| C 109R 1 EG | 1 | 14 ga. | 600 | 40 | 100 |
| C 109R 1 1/4 EG | 1¼ | 14 ga. | 600 | 40 | 100 |
| C 109R 1 1/2 EG | 1½ | 12 ga. | 800 | 60 | 50 |
| C 109R 2 EG | 2 | 12 ga. | 800 | 60 | 50 |
| C 109 2 1/2 EG | 2½ | 12 ga. | 800 | 60 | 50 |
| C 109 3 EG | 3 | 12 ga. | 800 | 60 | 50 |
| C 109 3 1/2 EG | 3½ | 11 ga. | 1,200 | 60 | 25 |
| C 109 4 EG | 4 | 11 ga. | 1,200 | 60 | 25 |

*Hex head size ⅜" for ½" to 1¼" sizes, ½" for 1½" to 4" sizes.*

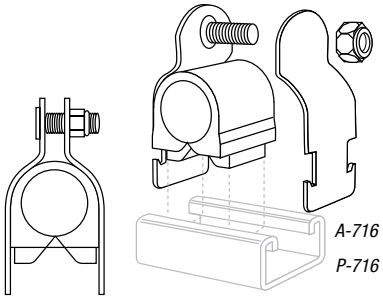
*Material: Stamped Steel.*

*Pipe sizes 2½" to 4" utilize the same clamps for the Rigid Series and the Universal Series.*

## A-716 — Snap•Guard® Cushioned Clamp Tube Series

## P-716 — Pipe Series

- Assembly consisting of GoldGalv® finish steel clamp with bolt/locknut and cushion
- Secure pipes, tubes and hoses for fluid conductors
- Installation is easy and requires no more time than a simple pipe clamp installation
- Cushion absorbs the shocks and associated vibrations from fluid surges in tubes, pipes and hoses
- Can handle temperatures from -40° F to 300° F
- Cushioned Clamp assemblies are available individually bagged



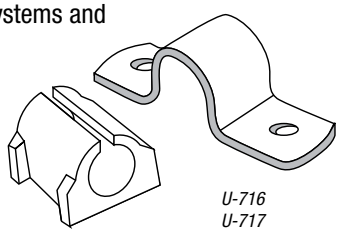
*A-716*
*P-716*

| O.D. TUBING SIZES | | STANDARD PIPE SIZES | | |
|---|---|---|---|---|
| ASSEMBLY CAT. NO. | TUBE O.D. (IN.) | ASSEMBLY CAT. NO. | NOMINAL PIPE SIZE (IN.) | STD. CTN. |
| A-716-1/4 | ¼ | P-716-1/4 | ¼ | 25 |
| A-716-3/8 | ⅜ | P-716-3/8 | ⅜ | 25 |
| A-716-1/2 | ½ | P-716-1/2 | ½ | 25 |
| A-716-5/8 | ⅝ | P-716-3/4 | ¾ | 25 |
| A-716-3/4 | ¾ | P-716-1 | 1 | 25 |
| A-716-7/8 | ⅞ | P-716-1-1/4 | 1¼ | 25 |
| A-716-1 | 1 | P-716-1-1/2 | 1½ | 10 |
| A-716-1-1/8 | 1⅛ | P-716-2 | 2 | 10 |
| A-716-1-1/4 | 1¼ | P716-2-1/2 | 2½ | 10 |
| A-716-1-3/8 | 1⅜ | P-716-3 | 3 | 10 |
| A-716-1-1/2 | 1½ | P-716-3-1/2 | 3½ | 10 |
| A-716-1-5/8 | 1⅝ | P-716-4 | 4 | 10 |
| A-716-1-3/4 | 1¾ | — | — | 10 |
| A-716-1-7/8 | 1⅞ | — | — | 10 |
| A-716-2 | 2 | — | — | 10 |
| A-716-2-1/8 | 2⅛ | — | — | 10 |
| A-716-2-3/8 | 2⅜ | — | — | 10 |
| A-716-2-5/8 | 2⅝ | — | — | 10 |
| A-716-3-1/8 | 3⅛ | — | — | 10 |
| A716-4-1/8 | 4⅛ | — | — | 10 |

*Standard Finishes – GoldGalv® brand. Available in Stainless Steel — use SS suffix. (i.e) A-716-1SS, Electro-Galvanized (Silver) — use EG suffix. (i.e) A-716-1EG*

## U-716, U-717 — Two-Hole Cushioned Clamp

- Guides, protects and uniformly spaces line runs. Low-cost, time-saving method of attaching tubing and hose to equipment
- Cushion is built to withstand the effects of most oils, chemical and industrial cleaning compounds, in temperatures from -50° F to 275° F. Interlock edge ensures cushion remains in place
- Clamp available in steel with the GoldGalv® hardware finish
- Attached with two standard fasteners to any flat surface, this clamp eliminates the use of special channels, providing a savings in both space requirements and cost
- Cushioned clamps reduce vibration, shock and noise in fluid systems and eliminate electrolysis



*U-716*
*U-717*

| ASSEMBLY CAT. NO. | COPPER AND STEEL TUBING O.D. (IN.) | COPPER WATER PIPE (NOM.) (IN.) | NOMINAL PIPE SIZE (IN.) | STD. CTN. |
|---|---|---|---|---|
| U716 1/4 | ¼ | — | — | 25 |
| U-716-3/8 | ⅜ | ¼ | — | 25 |
| U-716-1/2 | ½ | ⅜ | ¼ | 25 |
| U-716-5/8 | ⅝ | ½ | ⅜ | 25 |
| U-716-3/4 | ¾ | ⅝ | — | 25 |
| U-716-7/8 | ⅞ | ¾ | ½ | 25 |
| U-716-1 | 1 | — | — | 25 |
| U-716-1-1/8 | 1⅛ | 1 | — | 25 |
| U-716-1-1/4 | 1¼ | — | — | 10 |
| U-716-1-3/8 | 1⅜ | 1¼ | — | 10 |
| U-716-1-1/2 | 1½ | — | — | 10 |
| U-716-1-5/8 | 1⅝ | 1½ | — | 10 |
| U-716-1-3/4 | 1¾ | — | — | 10 |
| U-716-1-7/8 | 1⅞ | — | 1½ | 10 |
| U-716-2 | 2 | — | — | 10 |
| U-716-2-1/8 | 2⅛ | — | — | 10 |
| U-716-2-3/8 | 2⅜ | — | — | 10 |
| U-717-3/4 | — | — | ¾ | 25 |
| U-717-1 | — | — | 1 | 10 |
| U-717-1-1/4 | — | — | 1¼ | 10 |

*Standard Finish – GoldGalv®*



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# Pipe Straps, Conduit Clamps and Hangers



## C-716 — Isolator for Copper Tubing

**Features:**

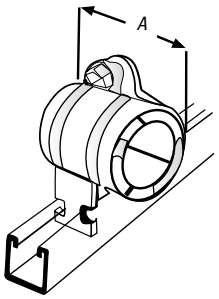
Designed for use with Superstrut® channel and pipe straps and Superstrut® C-711 Hangers, and may also be used with all standard flatbar or malleable iron hangers.

**Materials:**

Manufactured from one-piece steel shell with reinforcing ribs for stiffening and alignment. Padding is of processed non-conducting hairfelt and is cemented to the metal. Design of ribs creates a hinge so isolator may be opened and closed to install.

**Application:**

To provide a means to effectively isolate copper tubing from its supports to prevent the transmission of sound and vibration.




| CAT. NO. | SIZE (IN.) | NOMINAL PIPE SIZE (IN.) | HANGER, C-711 OR PIPE STRAP, 702 | WIDTH A (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| C716 1/2 | ½ | ½ | ¾ | 2⅜ | 100 |
| C-716-3/4 | ¾ | ¾ | ¾ | 2⅜ | 100 |
| C-716-1 | 1 | 1 | 1 | 2⅜ | 100 |
| C-716-1-1/4 | 1¼ | 1¼ | 1¼ | 2⅜ | 50 |
| C-716-1-1/2 | 1½ | 1½ | 1½ | 2⅜ | 50 |
| C-716-2 | 2 | 2 | 2½ | 2⅜ | 50 |
| C-716-2-1/2 | 2½ | 2½ | 3 | 2 15/32 | 50 |
| C-716-3 | 3 | 3 | 3½ | 2⅜ | 50 |
| C-716-3-1/2 | 3½ | 3½ | 4 | 4¼ | 30 |
| C-716-4 | 4 | 4 | 5 | 4¼ | 20 |

*Order by Cat. No. and size.*

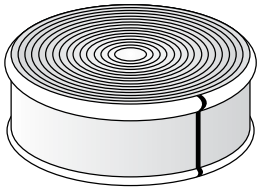
*Standard Finish – GoldGalv®*

## S716 — Cushioned Strip — For Isolation and Vibration Applications

For use with 701 O.D. tubing and pipe clamp. To determine 701 clamp size, add ¼" to O.D. tube size to allow for the cushioned strip material.

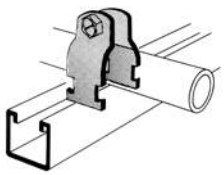
¼" markings for fast measuring and cutting. Measurement chart is printed on back of carton. 20 feet included in each carton.

Prevent metal-to-metal contact with the cushioned strip material. It aids in sound insulation, shock absorption and protects against corrosion, distortion and abrasion. Cushioned strip material is designed for optimal use between -30° F and 300° F. Cushioned strip material combined with the Superstrut® 701 pipe strap can handle clamping assignments from ¼" to 6.

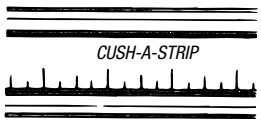


*S716*

*Sold in a carton of 20 feet.*



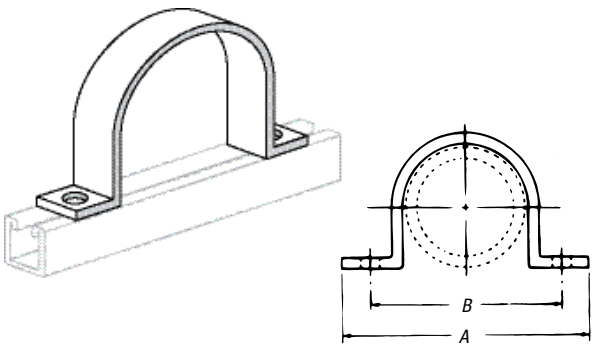
*Order 701 clamp separately.*







## C-708-U — Short Strap for Channel or Wall Mounting




| CAT. NO. | DIMENSIONS (IN.) PIPE SIZE | A | B | HOLE SIZE | STOCK SIZE | DESIGN LOAD LBS. | STD. CTN. |
|---|---|---|---|---|---|---|---|
| C-708-U-1/2 | ½ | 2⅞ | 2 | 9/32 | ⅛ x 1⅝ | 650 | 50 |
| C-708-U-3/4 | ¾ | 3 1/16 | 2 3/16 | 9/32 | ⅛ x 1⅝ | 650 | 50 |
| C-708-U-1 | 1 | 3⅜ | 2½ | 9/32 | ⅛ x 1⅝ | 650 | 50 |
| C-708-U-1-1/4 | 1¼ | 3 11/16 | 2 3/16 | 9/32 | ⅛ x 1⅝ | 650 | 25 |
| C-708-U-1-1/2 | 1½ | 3 5/16 | 3 1/16 | 9/32 | ⅛ x 1⅝ | 650 | 25 |
| C-708-U-2 | 2 | 5¾ | 4⅛ | 7/16 | ¼ x 1⅝ | 650 | 25 |
| C-708-U-2-1/2 | 2½ | 6 3/16 | 4 9/16 | 7/16 | ¼ x 1⅝ | 1,000 | 25 |
| C-708-U-3 | 3 | 6 3/16 | 5 3/16 | 7/16 | ¼ x 1⅝ | 1,000 | 25 |
| C-708-U-3-1/2 | 3½ | 7 5/16 | 5 11/16 | 7/16 | ¼ x 1 15/32 | 1,000 | 25 |
| C-708-U-4 | 4 | 7 13/16 | 6 5/16 | 7/16 | ¼ x 1 15/32 | 1,200 | 25 |
| C-708-U-5 | 5 | 8⅞ | 7¼ | 7/16 | ¼ x 1 15/32 | 1,200 | 10 |
| C-708-U-6 | 6 | 9 15/16 | 8 5/16 | 7/16 | ¼ x 1⅝ | 1,200 | 10 |

*Carbon Steel.*

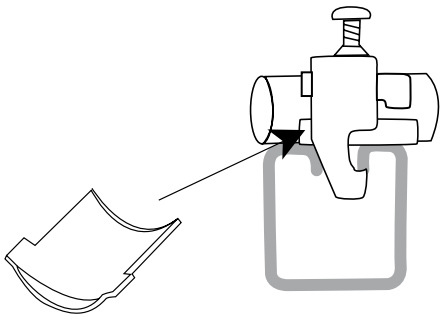
*Standard Finish – GoldGalv®*

# Pipe Straps, Conduit Clamps and Hangers

## CB118 — Counter Bed

| CAT. NO. | STD. CTN. |
|---|---|
| *Counter Bed* | |
| CB118-047PG | 100 |
| CB118-055PG | 100 |
| CB118-070PG | 100 |
| CB118-090PG | 100 |
| CB118-110PG | 100 |

| CAT. NO. | STD. CTN. |
|---|---|
| *Counter Bed* | |
| CB118-140PG | 100 |
| CB118-175PG | 100 |
| CB118-200PG | 100 |
| CB118-250PG | 100 |
| CB118-300PG | 100 |

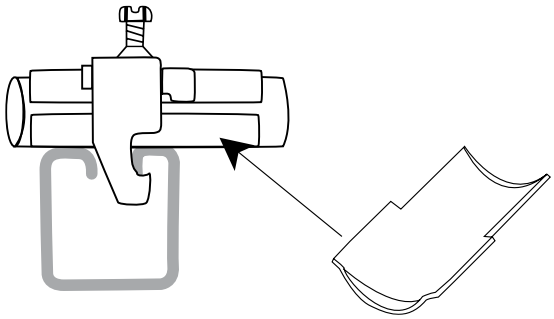


*CB118*
*Counter Bed*

## EB118 — Extended Bed

| CAT. NO. | STD. CTN. |
|---|---|
| *Extended Bed* | |
| EB118-047PG | 100 |
| EB118-055PG | 100 |
| EB118-070PG | 100 |
| EB118-090PG | 100 |
| EB118-110PG | 100 |

| CAT. NO. | STD. CTN. |
|---|---|
| *Extended Bed* | |
| EB118-140PG | 100 |
| EB118-175PG | 1 |
| EB118-200PG | 1 |
| EB118-250PG | 1 |
| EB118-300PG | 1 |



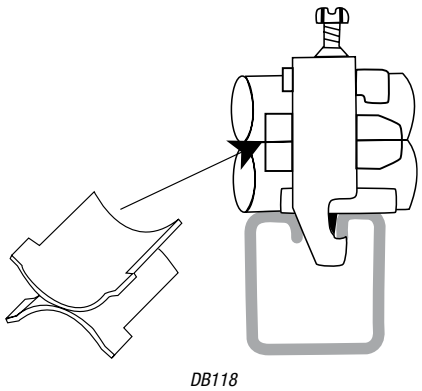
*EB118*
*Extended Bed*

## DB118 — Double Bed

| CAT. NO. | STD. CTN. |
|---|---|
| *Double Bed* | |
| DB118-047PG | 1 |
| DB118-055PG | 1 |

***Note**: Not sold in pairs.*

| CAT. NO. | STD. CTN. |
|---|---|
| *Double Bed* | |
| DB118-070PG | 1 |
| DB118-090PG | 1 |



*DB118*
*Double Bed*



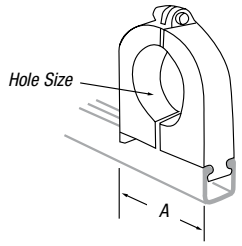
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## C-755 — Porcelain Cable Clamps



C-755

| CAT. NO. | HOLE SIZE (IN.) | A (IN.) | STD. CTN. |
|---|---|---|---|
| C-755-1A | 3/8 | 1 9/16 | 10 |
| C-755-1B | 1/2 | 1 9/16 | 10 |
| C-755-1C | 5/8 | 1 9/16 | 10 |
| C-755-2 | 3/4 | 2 5/32 | 10 |
| C-755-2A | 7/8 | 2 5/32 | 10 |
| C-755-2B | 1 | 2 5/32 | 10 |
| C-755-2C | 1 1/8 | 2 5/32 | 10 |
| C-755-3 | 1 1/4 | 2 5/8 | 10 |
| C-755-3A | 1 3/8 | 2 5/8 | 10 |
| C-755-3B | 1 1/2 | 2 5/8 | 10 |
| C-755-3C | 1 5/8 | 2 5/8 | 10 |
| C-755-4 | 1 3/4 | 3 5/8 | 10 |
| C-755-4A | 1 7/8 | 3 5/8 | 10 |
| C-755-4B | 2 | 3 5/8 | 10 |
| C-755-4C | 2 1/8 | 3 5/8 | 10 |
| C-755-5 | 2 1/4 | 4 1/4 | 10 |
| C-755-5A | 2 3/8 | 4 1/4 | 10 |
| C-755-5B | 2 1/2 | 4 1/4 | 10 |
| C-755-5C | 2 5/8 | 4 1/4 | 10 |
| C-755-6 | 2 5/8 | 4 5/8 | 10 |
| C-755-6A | 2 7/8 | 4 5/8 | 10 |
| C-755-6B | 3 | 4 5/8 | 10 |
| C-755-6C | 3 1/8 | 4 5/8 | 10 |
| C-755-7 | 3 1/4 | 5 13/16 | 10 |
| C-755-7A | 3 3/8 | 5 13/16 | 10 |
| C-755-7B | 3 1/2 | 5 13/16 | 10 |
| C-755-7C | 3 5/8 | 5 13/16 | 10 |
| C-755-8 | 3 5/8 | 6 7/8 | 5 |
| C-755-8A | 3 7/8 | 6 7/8 | 5 |
| C-755-8B | 4 | 6 7/8 | 5 |
| C-755-8C | 4 1/8 | 6 7/8 | 5 |
| C-755-8D | 4 1/4 | 6 7/8 | 5 |
| C-755-8E | 4 3/8 | 6 7/8 | 5 |
| C-755-8F | 4 1/2 | 6 7/8 | 5 |

*Finish – GoldGalv® brand with bronze hardware.*

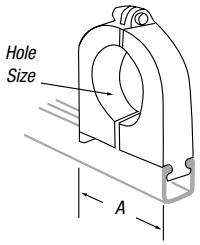
*Also fits 1 1/2" wide channel.*

## C-755 — TPE Cable Clamps

An easy-to-use one-piece insulator made from Sarlink 4339D, a flame-retardant, high hardness grade TPE polymer that is UL Listed. The tapered flange of the insulator ensures complete isolation and protection of the cable. Options include a Stainless Steel Clamp and hardware or an Electro-Galvanized Clamp with Everdur nut and bolt.



- Non-breakable TPE material
- Exceptional chemical resistance
- Dielectric strength of 640 volts per mil
- Stainless Steel Clamps Type 304 or 316
- Electro-Galvanized Steel Clamps with Everdur Nut and Bolt
- Flame-retardant TPE insulator
- Excellent UV resistance




| CAT. NO. | HOLE SIZE (IN.) | A (IN.) |
|---|---|---|
| C755 1ATP | 3/8 | 1.36 |
| C-755-1B-TP | 1/2 | 1.36 |
| C-755-1C-TP | 5/8 | 1.36 |
| C-755-2-TP | 3/4 | 1.86 |
| C-755-2A-TP | 7/8 | 1.86 |
| C-755-2B-TP | 1 | 1.86 |
| C-755-2C-TP | 1 1/8 | 1.86 |
| C-755-3-TP | 1 1/4 | 2.36 |
| C-755-3A-TP | 1 3/8 | 2.36 |
| C-755-3B-TP | 1 1/2 | 2.36 |
| C-755-3C-TP | 1 5/8 | 2.36 |
| C-755-4-TP | 1 3/4 | 2.86 |
| C-755-4A-TP | 1 7/8 | 2.86 |
| C-755-4B-TP | 2 | 2.86 |
| C-755-4C-TP | 2 1/8 | 2.86 |
| C-755-5-TP | 2 1/4 | 3.36 |
| C-755-5A-TP | 2 3/8 | 3.36 |

| CAT. NO. | HOLE SIZE (IN.) | A (IN.) |
|---|---|---|
| C-755-5B-TP | 2 1/2 | 3.36 |
| C-755-5C-TP | 2 5/8 | 3.36 |
| C-755-6-TP | 2 3/4 | 3.86 |
| C-755-6A-TP | 2 7/8 | 3.86 |
| C-755-6B-TP | 3 | 3.86 |
| C-755-6C-TP | 3 1/8 | 3.86 |
| C-755-7-TP | 3 1/4 | 4.36 |
| C-755-7A-TP | 3 3/8 | 4.36 |
| C-755-7B-TP | 3 1/2 | 4.36 |
| C-755-7C-TP | 3 5/8 | 4.36 |
| C-755-8-TP | 3 3/4 | 4.86 |
| C-755-8A-TP | 3 7/8 | 4.86 |
| C-755-8B-TP | 4 | 4.86 |
| C-755-8C-TP | 4 1/8 | 4.86 |
| C-755-8D-TP | 4 1/4 | 5.24 |
| C-755-8E-TP | 4 3/8 | 5.24 |
| C-755-8F-TP | 4 1/2 | 5.24 |

# Pipe Straps, Conduit Clamps and Hangers

## HS Series Two-Hole Pipe Strap



| CAT. NO. | PIPE SIZE (IN.) | STD. CTN. |
|---|---|---|
| HS901 | ½ | 500 |
| HS902 | ¾ | 500 |
| HS903 | 1 | 500 |
| HS904 | 1¼ | 250 |
| HS905 | 1½ | 250 |
| HS906 | 2 | 125 |
| HS907 | 2½ | 125 |
| HS908 | 3 | 100 |
| HS909 | 3½ | 75 |
| HS910 | 4 | 50 |

*Standard Finish — Galvanized.*
*Carbon steel.*
*Specify pipe size and catalog number.*
*For stainless steel, add suffix SS.*

## HS Series One-Hole Pipe Straps

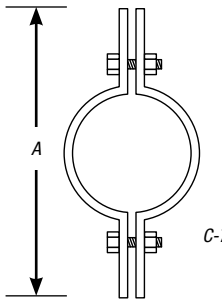


| CAT. NO. | PIPE SIZE (IN.) | STD. CTN. |
|---|---|---|
| HS100 | ⅜ | 500 |
| HS101 | ½ | 500 |
| HS102 | ¾ | 500 |
| HS103 | 1 | 500 |
| HS104 | 1¼ | 250 |
| HS105 | 1½ | 250 |
| HS106 | 2 | 50 |
| HS107 | 2½ | 25 |
| HS108 | 3 | 25 |
| HS109 | 3½ | 25 |
| HS110 | 4 | 25 |

*For stainless steel, add suffix SS.*

## C-720, C-720SS — Extension Riser Clamp

Designed for the support or steadying of vertical pipe risers. It is made of carbon steel and is designed to hold tight to the pipe, transmitting the load to the structure through the ears on each end. When possible, the clamp should be placed under a coupling, hub or lugs welded to the pipe.




*C-720, C-720SS*

| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | A (IN.) | WT. EACH |
|---|---|---|---|---|
| C-720-1/2 | ½ | 255 | 9 | 1.00 |
| C-720-3/4 | ¾ | 255 | 8⅞ | 1.08 |
| C-720-1 | 1 | 255 | 8⅞ | 1.08 |
| C-720-1-1/4 | 1¼ | 255 | 10 | 1.86 |
| C-720-1-1/2 | 1½ | 255 | 10¼ | 1.22 |
| C-720-2 | 2 | 255 | 10¼ | 1.30 |
| C-720-2-1/2 | 2½ | 390 | 11¼ | 1.74 |
| C-720-3 | 3 | 530 | 11⅜ | 1.98 |
| C-720-3-1/2 | 3½ | 670 | 12⅞ | 2.14 |
| C-720-4 | 4 | 810 | 12⅞ | 2.28 |
| C-720-5 | 5 | 1,160 | 13¾ | 3.60 |
| C-720-6 | 6 | 1,570 | 14¾ | 3.68 |
| C-720-8 | 8 | 2,500 | 18½ | 7.26 |
| C720 10 | 10 | 2,500 | 20¾ | 11.00 |
| C-720-12 | 12 | 2,700 | 22¾ | 15.94 |
| C-720-14 | 14 | 2,700 | 24 | 17.36 |
| C-720-16 | 16 | 2,900 | 26 | 29.68 |
| C-720-18 | 18 | 2,900 | 28 | 31.64 |
| C-720-20 | 20 | 2,900 | 30 | 34.84 |
| C-720-24 | 24 | 2,900 | 34 | 50.00 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

### Specifications

- Material: Carbon Steel
- Compliance:Federal Specification A-A-1192A Type 8, MSS-SP-69 (Type 8) and BSPSS-BS3974.
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"),Electro-Galvanized (add suffix "-EG").

***Note:*** *This product is not designed to be supported with rods. Install using the maximum suggested torque values shown in the Technical Section of this catalog.*



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# Pipe Straps, Conduit Clamps and Hangers

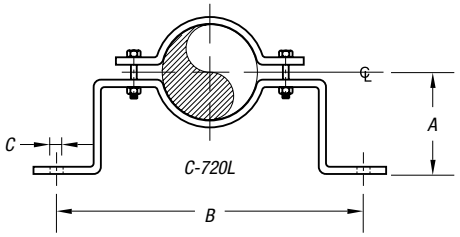


## C-720L — Offset Pipe Clamp

The Offset Pipe Clamp is used on pipe lines running at a fixed distance from a wall or floor. The standard clearance is two inches from the O.D. of pipe to the face of the surface. Non-standard clearances can be fabricated upon request.

### Specifications

- Material: Carbon Steel
- Load Rating: Up to 650° F (343° C)
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify pipe size, catalog number and finish




| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | A (IN.) | B (IN.) | C (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|
| C-720L-1/2 | ½ | 190 | 2 7/16 | 8½ | 7/16 | 1.1 |
| C-720L-3/4 | ¾ | 190 | 2¾ | 8¾ | 7/16 | 1.3 |
| C-720L-1 | 1 | 190 | 2⅞ | 9¼ | 7/16 | 1.4 |
| C-720L-1-1/4 | 1¼ | 190 | 3 1/16 | 9¾ | 7/16 | 1.5 |
| C-720L-1-1/2 | 1½ | 190 | 3 3/16 | 10 | 7/16 | 1.6 |
| C-720L-2 | 2 | 420 | 3½ | 11¼ | 9/16 | 2.8 |
| C-720L-2-1/2 | 2½ | 420 | 3¾ | 11¾ | 9/16 | 2.9 |
| C-720L-3 | 3 | 420 | 4 1/16 | 12⅞ | 9/16 | 3.2 |
| C-720L-4 | 4 | 610 | 4 9/16 | 13⅞ | 9/16 | 4.2 |
| C-720L-5 | 5 | 610 | 5 1/16 | 15⅝ | 11/16 | 6.5 |
| C-720L-6 | 6 | 870 | 5⅝ | 16¾ | 11/16 | 7.2 |
| C-720L-8 | 8 | 870 | 6⅝ | 18¾ | 11/16 | 8.3 |
| C-720L-10 | 10 | 1,050 | 7⅜ | 21½ | 13/16 | 12.4 |
| C-720L-12 | 12 | 1,200 | 8⅜ | 24⅞ | 13/16 | 21.0 |

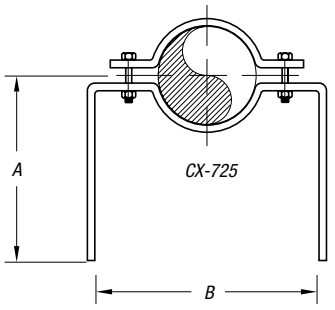
*Standard Finish – GoldGalv®, unless otherwise stated.*

## CX-725 — Extended Offset Pipe Clamp

Designed to attach directly to piping where the exact distance between the structure and the pipe cannot be determined until the piping is in place. The extended legs can be modified in the field to suit the location. Legs of longer lengths can be furnished on order.

### Specifications

- Material: Carbon Steel
- Finish: Standard Finish – Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify pipe size, catalog number and finish



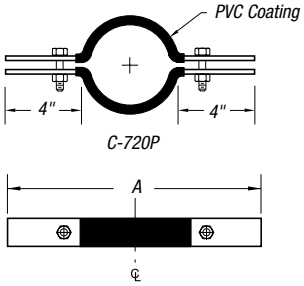

| CAT. NO. | PIPE SIZE (IN.) | A (IN.) | B (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|
| CX-725-3/8 | ⅜ | 12 | 3¾ | 1.85 |
| CX-725-1/2 | ½ | 12 | 3¾ | 1.85 |
| CX-725-3/4 | ¾ | 12 | 4¾ | 1.85 |
| CX-725-1 | 1 | 12 | 5½ | 2.34 |
| CX-725-1-1/4 | 1¼ | 12 | 5⅞ | 2.40 |
| CX-725-1-1/2 | 1½ | 12 | 6⅛ | 2.45 |
| CX-725-2 | 2 | 12 | 7 | 3.13 |
| CX-725-2-1/2 | 2½ | 12 | 7½ | 4.21 |
| CX-725-3 | 3 | 12 | 7⅞ | 4.47 |
| CX-725-4 | 4 | 12 | 10½ | 4.90 |
| CX-725-5 | 5 | 12 | 12¼ | 4.90 |
| CX-725-6 | 6 | 12 | 13 | 5.32 |
| CX-725-8 | 8 | 12 | 15¼ | 11.20 |
| CX-725-10 | 10 | 12 | 18¼ | 13.50 |
| CX-725-12 | 12 | 12 | 20¾ | 22.00 |
| CX-725-14 | 14 | 12 | 21 | 35.00 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

## C-720P — PVC-Coated Riser Clamp

The C-720P is normally used for the support of uninsulated vertical piping where no movement will occur. PVC coating the contact surface prevents galvanic corrosion with the pipe. Please use our C-720 for carbon steel piping or CT-720 for copper tubing requirements.

***Note:*** *This product is not designed to be supported with rods. Install using the maximum suggested torque values shown in the Technical Section of this catalog.*




### Specifications

- Material: Carbon Steel
- Compliance: Federal Specification A-A-1192A Type 8, MSS-SP-69 T 1400° F/600° C
- Finish: Polyvinyl Chloride
- Ordering: Specify pipe size and catalog number

| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | A (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|
| C720P-1/2 | ½ | 225 | 9⅜ | 1.30 |
| C-720P-3/4 | ¾ | 225 | 9⅜ | 1.36 |
| C-720P-1 | 1 | 225 | 9⅝ | 1.38 |
| C-720P-1-1/4 | 1¼ | 225 | 10 | 1.95 |
| C-720P-1-1/2 | 1½ | 225 | 10⅜ | 2.01 |
| C-720P-2 | 2 | 225 | 10¾ | 2.17 |
| C-720P-2-1/2 | 2½ | 390 | 11¼ | 2.29 |
| C-720P-3 | 3 | 530 | 12 | 2.50 |
| C-720P-4 | 4 | 810 | 13½ | 3.42 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

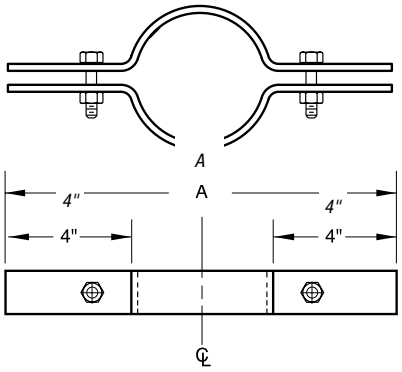
## CT-720 — Copper Riser Clamp

Normally used for the support of uninsulated vertical tubing where no movement will occur. Please use C-720 for carbon steel piping or C-720P for plastic coating requirements.

***Note:*** *This product is not designed to be supported with rods. Install using the maximum suggested torque values shown in the Technical Section of this catalog.*

### Specifications

- Material: Carbon Steel
- Compliance: Federal Specification A-A-1192A Type 8, MSS-SP-69 Type 8
- Finish: Copper
- Ordering: Specify tubing size and catalog number




*CT-720*

| CAT. NO. | TUBE SIZE (IN.) | MAX. LOAD (LBS.) | A (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|
| **CT-720-1/2** | ½ | 220 | 9 3/16 | .70 |
| **CT-720-3/4** | ¾ | 220 | 9 3/16 | .74 |
| **CT720 1** | 1 | 220 | 9½ | .75 |
| **CT-720-1-1/4** | 1¼ | 220 | 9¾ | .77 |
| **CT-720-1-1/2** | 1½ | 220 | 10⅛ | .80 |
| **CT-720-2** | 2 | 220 | 10½ | .84 |
| **CT-720-2-1/2** | 2½ | 390 | 11 | 1.60 |
| **CT-720-3** | 3 | 530 | 11⅝ | 1.80 |
| **CT-720-3-1/2** | 3½ | 530 | 12⅝ | 1.95 |
| **CT-720-4** | 4 | 530 | 13⅛ | 2.04 |
| **CT-720-5** | 5 | 810 | 14 | 3.50 |
| **CT-720-6** | 6 | 1,570 | 15 | 5.25 |

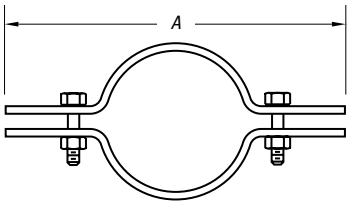
*Standard Finish – GoldGalv®, unless otherwise stated.*

## C-724 — Ductile Iron Pipe Clamp

Can be used to secure mechanical joint piping or socket fittings together to prevent separation under pressure either under or above ground, vertically or horizontally. If using in this fashion, two (2) W-724 Socket Clamp Washers and Figure 133 Rods are also required, but must be ordered separately. The C-724 may also be used to support and guide vertical ductile iron pipe.

### Specifications

- Materials: Carbon Steel
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify pipe size, catalog number and finish




*C-724*

| CAT. NO. | PIPE SIZE (IN.) | ACTUAL PIPE O.D. | A (IN.) | WASHER SIZE (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|---|
| **C-724-3** | 3 | 3.96 | 12¼ | ¾ | 9.00 |
| **C-724-4** | 4 | 4.8 | 13¾ | ¾ | 9.00 |
| **C-724-6** | 6 | 6.9 | 15¾ | ¾ | 10.70 |
| **C-724-8** | 8 | 9.05 | 18 | ¾ | 12.20 |
| **C-724-10** | 10 | 11.1 | 20⅛ | ¾ | 14.60 |
| **C-724-12** | 12 | 13.2 | 22⅞ | ¾ | 16.60 |
| **C-724-14** | 14 | 15.3 | 25½ | 1¼ | 41.90 |
| **C-724-16** | 16 | 17.4 | 28 | 1¼ | 61.90 |
| **C-724-18** | 18 | 19.5 | 33 | 1¼ | 65.10 |
| **C-724-20** | 20 | 21.6 | 35½ | 1½ | 92.20 |
| **C-724-24** | 24 | 25.8 | 40½ | 1½ | 122.70 |
| **C-724-30** | 30 | 32 | 48 | 1½ | 184.00 |

*Standard Finish – GoldGalv®, unless otherwise stated.*



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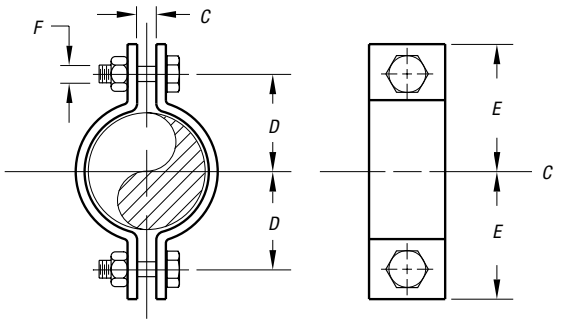
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## Pipe Straps, Conduit Clamps and Hangers

# C-725 — Two-Bolt Pipe Clamp

Designed to suspend cold or hot pipe lines where little or no insulation is required. The C-725 is usually used with an E-120-A Weldless Eyenut or E-157 Welded Eyerod. See Figure 298 heavy-duty Two-Bolt Clamp when higher loads are required. We will also design to meet special requirements such as special pipe sizes.

Rated Loads are for up to 750° F (399° C).



C-726

### Specifications

- Material: Carbon Steel
- Compliance: Federal Specification A-A-1192A Type 4, MSS-SP-69 Type 4 and BSPSS-BS3974
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify catalog number, finish and pipe size. Also, include any special requirements for C-725

| CAT. NO. | PIPE SIZE (IN.) | MAXIMUM LOAD 650° F/343° C | MAXIMUM LOAD 750° F/343° C | C (IN.) | ROD TAKE OUT D (IN.) | E (IN.) | F (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|---|
| C725 1/2 | ½ | 500 | 445 | ⅜ | 1⅛ | 1⅝ | ⅜ | .31 |
| C-725-3/4 | ¾ | 500 | 445 | ⅜ | 1¼ | 1¾ | ⅜ | .35 |
| C-725-1 | 1 | 500 | 445 | ⅜ | 1⅜ | 1⅞ | ⅜ | .39 |
| C-725-1-1/4 | 1¼ | 500 | 445 | ⅜ | 1⅝ | 2⅛ | ⅜ | .40 |
| C-725-1-1/2 | 1½ | 800 | 715 | ⅜ | 1¾ | 2¼ | ⅜ | .45 |
| C-725-2 | 2 | 1,040 | 930 | ½ | 2⅛ | 2⅝ | ½ | 1.23 |
| C-725-2-1/2 | 2½ | 1,040 | 930 | ⅝ | 2⅝ | 3⅛ | ½ | 1.33 |
| C-725-3 | 3 | 1,040 | 930 | ⅝ | 3 | 3½ | ½ | 1.53 |
| C-725-4 | 4 | 1,040 | 930 | ¾ | 3⅝ | 4⅜ | ½ | 2.20 |
| C-725-5 | 5 | 1,040 | 930 | ¾ | 4¼ | 5 | ½ | 2.39 |
| C-725-6 | 6 | 1,615 | 1,440 | ⅞ | 5¼ | 6¼ | ¾ | 5.87 |
| C-725-8 | 8 | 1,615 | 1,440 | 1 | 6⅜ | 7⅜ | ¾ | 6.95 |
| C-725-10 | 10 | 2,490 | 2,220 | 1 | 7⅝ | 8¾ | ⅞ | 14.39 |
| C-725-12 | 12 | 2,490 | 2,220 | 1⅛ | 8¾ | 10¼ | ⅞ | 16.73 |
| C-725-14 | 14 | 2,490 | 2,220 | 1⅛ | 9¼ | 10⅝ | ⅞ | 21.26 |
| C-725-16 | 16 | 2,490 | 2,220 | 1⅛ | 10¼ | 11⅝ | ⅞ | 23.39 |
| C-725-18 | 18 | 3,060 | 2,730 | 1¼ | 11⅜ | 13 | 1 | 32.96 |
| C-725-20 | 20 | 3,060 | 2,730 | 1⅜ | 12¾ | 14⅛ | 1⅛ | 36.74 |
| C-725-24 | 24 | 3,060 | 2,730 | 1½ | 15¼ | 16⅞ | 1⅛ | 52.96 |
| C-725-30 | 30 | 3,500 | 3,360 | 2 | 18½ | 20¾ | 1½ | 103.50 |

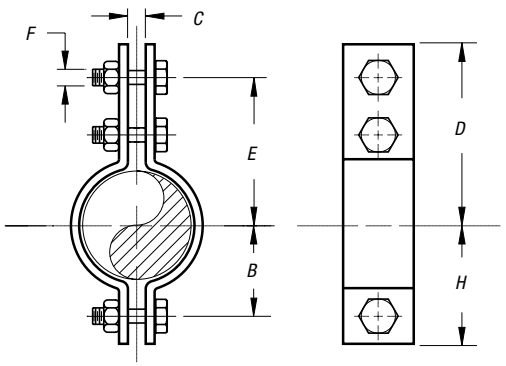
*Standard Finish – GoldGalv®, unless otherwise stated.*

## Pipe Straps, Conduit Clamps and Hangers

# C-726 — Three-Bolt Pipe Clamp

Designed for hot-insulated pipe lines up to 750° F. The spacer on the top inner bolt provides uniform space for the connecting eyerod or weldless eyenut. We will also design to meet special requirements such as special pipe sizes.

Rated Loads are for up to 750° F (399° C).




C-726

### Specifications

- Material: Carbon Steel
- Federal Specification A-A-1192A Type 3, MSS-SP-69 Type 3 and BSPSS-BS3974
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify catalog number, finish and pipe size. Also, include any special requirements

| CAT. NO. | PIPE SIZE (IN.) | MAXIMUM LOAD 650° F/343° C | MAXIMUM LOAD 750° F/399° C | B (IN.) | C (IN.) | D (IN.) | TAKE OUT E (IN.) | F (IN.) | H (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|
| C-726-1/2 | ½ | 950 | 845 | 1 | ⅝ | 2⅞ | 2¼ | ⅜ | 1⅝ | .61 |
| C-726-3/4 | ¾ | 950 | 845 | 1⅛ | ⅝ | 3¼ | 2½ | ⅜ | 1¾ | .66 |
| C-726-1 | 1 | 950 | 845 | 1½ | ⅝ | 3¾ | 2½ | ⅜ | 2¼ | .69 |
| C-726-1/4 | 1¼ | 950 | 845 | 1½ | ¾ | 3⅝ | 2⅞ | ⅜ | 2¼ | .75 |
| C-726-1-3/4 | 1¾ | 1,545 | 1,380 | 1¾ | 1 | 4⅞ | 4¼ | ⅝ | 2½ | 2.14 |
| C-726-2 | 2 | 1,545 | 1,380 | 2¼ | 1¼ | 5⅞ | 5¼ | ⅝ | 2¾ | 2.43 |
| C-726-2-3/4 | 2¾ | 1,545 | 1,380 | 2¼ | 1¼ | 6¼ | 5⅜ | ⅝ | 3 | 2.92 |
| C-726-3 | 3 | 1,545 | 1,380 | 2¾ | 1¼ | 6⅝ | 6 | ⅝ | 3½ | 3.19 |
| C-726-4 | 4 | 2,500 | 2,230 | 3⅜ | 1 | 7⅝ | 6½ | ¾ | 4½ | 7.12 |
| C-726-5 | 5 | 2,500 | 2,230 | 4 | 1¼ | 8¼ | 7 | ¾ | 5¼ | 7.96 |
| C-726-6 | 6 | 2,865 | 2,555 | 4¾ | 1¼ | 9⅝ | 8¼ | ⅞ | 6¼ | 11.85 |
| C-726-8 | 8 | 2,865 | 2,555 | 5¾ | 1¼ | 10⅝ | 9¼ | ⅞ | 7¼ | 13.59 |
| C-726-10 | 10 | 3,240 | 2,890 | 6⅞ | 1¼ | 12 | 10½ | 1 | 8¼ | 21.33 |
| C-726-12 | 12 | 3,240 | 2,890 | 8⅜ | 1½ | 13 | 11½ | 1 | 9⅞ | 23.65 |
| C-726-14 | 14 | 4,300 | 3,835 | 9¼ | 2 | 14⅜ | 12¾ | 1¼ | 10¾ | 38.78 |
| C-726-16 | 16 | 4,300 | 3,835 | 10 | 2 | 15⅝ | 14 | 1¼ | 11¾ | 42.89 |
| C-726-18 | 18 | 4,300 | 3,835 | 11⅝ | 2 | 16¾ | 15¼ | 1¼ | 13¼ | 46.35 |
| C-726-20 | 20 | 4,500 | 4,015 | 12⅜ | 2 | 17½ | 15⅞ | 1⅜ | 14 | 58.67 |
| C-726-24 | 24 | 5,490 | 4,900 | 14¾ | 2 | 19⅞ | 17⅞ | 1½ | 16⅜ | 89.32 |
| C-726-30 | 30 | 7,500 | 6,690 | 18½ | 1½ | 26⅜ | 23⅜ | 1½ | 21 | 140.89 |
| C-726-36 | 36 | 1,0500 | 9,360 | 22½ | 3 | 32¼ | 28¾ | 1¾ | 26 | 246.44 |

*Standard Finish – GoldGalv® unless otherwise stated.*



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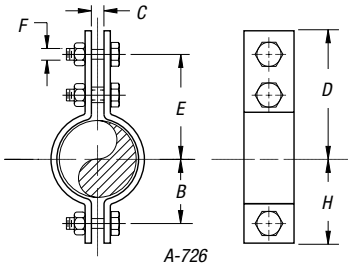
## Pipe Clamps — A-726, Alloy Three-Bolt Pipe Clamp

Designed for hot-insulated pipelines. The spacer on the top inner bolt provides uniform space for the connecting eyerod or weldless eyenut.

Temperature range: above 750° F (399° C) to 1050° F (566° C).

### Specifications

- Material: Chromium Molybdenum Steel, ASTM A-387 Grade 22
- Compliance: Federal Specification A-A-1192A Type 3, MSS-SP-69 Type 3 and BSPSS-BS3974
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify catalog number and pipe size



A-726

| CAT. NO. | PIPE SIZE (IN.) | MAXIMUM LOAD 950° F/510° C | 1000° F/538° C | 1050° F/566° C | B (IN.) | C (IN.) | D (IN.) | TAKE OUT E (IN.) | F (IN.) | H (IN.) | (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A-726-3/4 | ¾ | 870 | 600 | 440 | 1⅛ | ⅝ | 3 | 2½ | ⅜ | 1⅝ | 1.09 |
| A-726-1 | 1 | 870 | 600 | 440 | 1¼ | ⅝ | 3⅛ | 2⅝ | ⅜ | 1¾ | 1.14 |
| A-726-1-1/4 | 1¼ | 870 | 600 | 440 | 1½ | ¾ | 3¾ | 2⅞ | ⅜ | 2¼ | 1.23 |
| A-726-1-1/2 | 1½ | 1,400 | 1,000 | 700 | 1¾ | 1 | 4⅛ | 4⅛ | ⅝ | 2⅜ | 2.48 |
| A-726-2 | 2 | 1,400 | 1,000 | 700 | 2⅛ | 1 | 5⅞ | 5⅛ | ⅝ | 2¾ | 2.70 |
| A-726-2-1/2 | 2½ | 1,400 | 1,000 | 700 | 2¼ | 1 | 6⅛ | 5⅜ | ⅝ | 3 | 2.76 |
| A-726-3 | 3 | 1,400 | 1,000 | 700 | 2¾ | 1 | 6¾ | 6 | ⅝ | 3½ | 3.19 |
| A-726-4 | 4 | 2,300 | 1,600 | 1,100 | 3⅜ | 1 | 7⅝ | 6½ | ¾ | 4½ | 7.30 |
| A-726-5 | 5 | 2,300 | 1,600 | 1,100 | 4 | 1⅛ | 8⅛ | 7 | ¾ | 5⅛ | 7.96 |
| A-726-6 | 6 | 2,600 | 1,800 | 1,300 | 4¾ | 1¼ | 10 | 8⅝ | ⅞ | 6⅛ | 12.26 |
| A-726-8 | 8 | 2,600 | 1,800 | 1,300 | 5¾ | 1¼ | 11 | 9⅝ | ⅞ | 7⅛ | 14.04 |
| A-726-10 | 10 | 3,000 | 2,100 | 1,500 | 6⅞ | 1¼ | 12 | 10½ | 1 | 8¼ | 21.33 |
| A-726-12 | 12 | 3,000 | 2,100 | 1,500 | 8⅜ | 1½ | 13⅛ | 11⅝ | 1 | 9⅛ | 24.00 |
| A-726-14 | 14 | 3,900 | 2,800 | 2,000 | 9⅛ | 2 | 14⅛ | 12¾ | 1¼ | 10¾ | 38.78 |
| A-726-16 | 16 | 3,900 | 2,800 | 2,000 | 10 | 2 | 15⅛ | 14 | 1¼ | 11¾ | 43.13 |
| A-726-18 | 18 | 39 | 2,800 | 2,000 | 11⅝ | 2 | 16¾ | 15⅛ | 1¼ | 13¼ | 47.78 |
| A-726-20 | 20 | 5,000 | 3,200 | 2,000 | 12⅜ | 2 | 17½ | 15⅞ | 1⅛ | 14 | 58.67 |
| A-726-24 | 24 | 5,500 | 3,500 | 2,700 | 14¾ | 1½ | 19⅞ | 17⅞ | 1½ | 16⅜ | 90.82 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

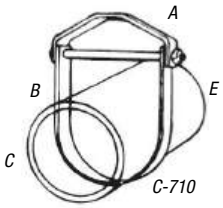
## Pipe Hangers — C-710, C-710F, C-710P, C-710SS

Designed to support non-insulated, stationary lines from above, allowing for approximately 1" to 1½" of vertical adjustment after the pipe is in place. The lower nut (not furnished) adjusts the pipe line to the proper elevation, the top nut (not furnished) prevents loosening due to vibration and must be tightened securely to assure proper hanger performance.

Rated Loads are for up to 650° F (343° C) for carbon steel. Maximum PVC temperature is 140° F (60° C).

### Specifications

- Material: Carbon Steel (Also available in Stainless Steel as C-710SS)
- Compliance: Federal Specification A-A-1192A Type 1, MSS-SP-69 Type 1, BSPSS-BS3974, UL and FM
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify catalog number, finish and pipe size



C-710

| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | A (IN.) | B (IN.) | C (IN.) | ROD TAKE OUT E (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|
| C-710-1/2 | ½ | 610 | ⅜ | 2¾ | 3⅛ | 1⅞ | .27 |
| C-710-3/4 | ¾ | 610 | ⅜ | 2⅛ | 2¾ | 1½ | .29 |
| C-710-1 | 1 | 610 | ⅜ | 3 | 3¾ | 2¼ | .33 |
| C-710-1-1/4 | 1¼ | 610 | ⅜ | 3⅛ | 4 | 2¼ | .36 |
| C-710-1-1/2 | 1½ | 610 | ⅜ | 3¼ | 4¼ | 2⅜ | .42 |
| C-710-2 | 2 | 610 | ⅜ | 3⅜ | 4⅝ | 3⅛ | .52 |
| C-710-2-1/2 | 2½ | 1,130 | ½ | 4⅛ | 5⅜ | 3⅛ | .61 |
| C-710-3 | 3 | 1,130 | ½ | 5 | 6¾ | 4⅛ | .90 |
| C-710-3-1/2 | 3½ | 1,130 | ½ | 4½ | 6⅝ | 3⅜ | .99 |
| C-710-4 | 4 | 1,430 | ⅝ | 5⅜ | 7¾ | 4⅜ | 1.40 |
| C-710-5 | 5 | 1,430 | ⅝ | 6 | 8⅞ | 5 | 2.10 |
| C-710-6 | 6 | 1,940 | ¾ | 7 | 10½ | 5⅞ | 3.00 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | A (IN.) | B (IN.) | C (IN.) | ROD TAKE OUT E (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|
| C-710-7 | 7 | 2,000 | ¾ | 7⅜ | 11¾ | 6½ | 5.42 |
| C-710-8 | 8 | 2,000 | ¾ | 8½ | 12¾ | 6¾ | 5.25 |
| C-710-10 | 10 | 3,600 | ⅞ | 10 | 15⅜ | 8¼ | 9.10 |
| C-710-12 | 12 | 3,800 | ⅞ | 11⅛ | 17½ | 9¼ | 11.75 |
| C-710-14 | 14 | 4,200 | 1 | 12½ | 19½ | 10⅝ | 14.25 |
| C-710-16 | 16 | 4,800 | 1 | 15 | 23 | 13⅛ | 20.75 |
| C-710-18 | 18 | 4,800 | 1¼ | 15¾ | 24¾ | 13¾ | 23.00 |
| C-710-20 | 20 | 4,800 | 1¼ | 17⅜ | 27⅜ | 15¼ | 41.50 |
| C-710-24 | 24 | 4,800 | 1¼ | 19⅜ | 31⅜ | 17½ | 50.00 |
| C-710-30 | 30 | 6,000 | 1¼ | 24¾ | 40¾ | 21¾ | 68.08 |
| C-710-36 | 36 | 9,500 | 1½ | 32⅞ | 50⅞ | 30 | 68.68 |

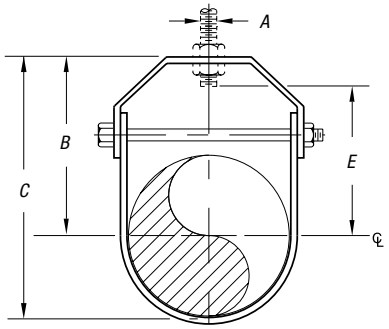
*Standard Finish – GoldGalv®, unless otherwise stated.*

## CL-710 — Light-Duty Clevis Hanger

Designed to support non-insulated, stationary lines from above, allowing for approximately 1" to 1½" of vertical adjustment after the pipe is in place. The lower nut (not furnished) adjusts the pipe line to the proper elevation, the top nut (not furnished) prevents loosening due to vibration and must be tightened securely to assure proper hanger performance.

### Specifications

- Material: Carbon Steel
- Compliance: Federal Specification A-A-1192A Type 1, MSS-SP-69 Type 1
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify catalog number, finish and pipe size




*CL-710*

| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | A (IN.) | B (IN.) | C (IN.) | E (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|
| **CL710 1/2** | ½ | 150 | ⅜ | 1⅞ | 2⅜ | ¾ | .27 |
| **CL-710-3/4** | ¾ | 250 | ⅜ | 2⅜ | 2⅞ | 1½ | .29 |
| **CL-710-1** | 1 | 250 | ⅜ | 2⅜ | 3⅜ | 1⅝ | .33 |
| **CL-710-1-1/4** | 1¼ | 250 | ⅜ | 2⅞ | 3¾ | 2⅛ | .36 |
| **CL-710-1-1/2** | 1½ | 250 | ⅜ | 3 | 4 | 2¼ | .42 |
| **CL-710-2** | 2 | 250 | ⅜ | 3½ | 4¾ | 2¾ | .52 |
| **CL-710-2-1/2** | 2½ | 350 | ½ | 4 | 5½ | 2⅞ | .81 |
| **CL-710-3** | 3 | 350 | ½ | 4¼ | 6⅛ | 3¼ | .90 |
| **CL-710-3-1/2** | 3½ | 350 | ½ | 4⅜ | 6½ | 3⅜ | .99 |
| **CL-710-4** | 4 | 400 | ⅝ | 5½ | 7⅛ | 4⅜ | 1.40 |

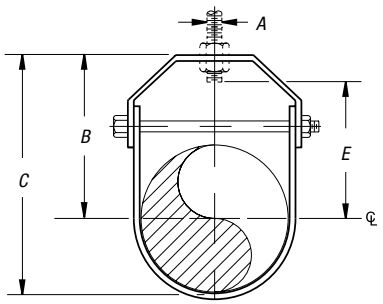
*Standard Finish – GoldGalv®, unless otherwise stated.*

## CTL-710 — Copper Clevis Hanger

Designed to support non-insulated, stationary copper tubing lines from above, allowing for approximately 1" to 1½" of vertical adjustment after the tubing is in place. The lower nut (not furnished) adjusts the pipe line to the proper elevation. The top nut (not furnished) prevents loosening due to vibration and must be tightened securely to assure proper hanger performance.

### Specifications

- Material: Carbon Steel
- Compliance: Federal Specification A-A-1192A Type 1, MSS-SP-69 Type 1 and BSPSS-BS3974. Rated Loads are for up to 650° F (343° C)
- Finish: Copper
- Ordering: Specify tubing size and catalog number




*CTL-710*

| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | A (IN.) | B (IN.) | C (IN.) | ROD TAKE OUT E (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|
| **CTL710 1/2** | ½ | 150 | ⅜ | 2⅞ | 3⅛ | 2¼ | .16 |
| **CTL-710-3/4** | ¾ | 250 | ⅜ | 2⅝ | 3 | 1⅞ | .16 |
| **CTL-710-1** | 1 | 250 | ⅜ | 2⅝ | 3⅛ | 1⅞ | .19 |
| **CTL-710-1-1/4** | 1¼ | 250 | ⅜ | 3⅛ | 3¾ | 2⅜ | .22 |
| **CTL-710-1-1/2** | 1½ | 250 | ⅜ | 3⅜ | 4⅛ | 2⅝ | .29 |
| **CTL-710-2** | 2 | 250 | ⅜ | 3⅜ | 4⅜ | 2⅝ | .32 |
| **CTL-710-2-1/2** | 2½ | 350 | ½ | 3⅝ | 4⅞ | 2⅝ | .72 |
| **CTL-710-3** | 3 | 350 | ½ | 3⅞ | 5⅜ | 2⅞ | .82 |
| **CTL-710-3-1/2** | 3½ | 350 | ½ | 4⅛ | 5⅞ | 3⅛ | .91 |
| **CTL-710-4** | 4 | 350 | ½ | 4½ | 6¼ | 3½ | 1.07 |
| **CTL-710-5** | 5 | 900 | ⅝ | 5 | 7¾ | 3⅞ | 1.76 |
| **CTL-710-6** | 6 | 900 | ⅝ | 5¾ | 8⅞ | 4⅝ | 1.92 |

*Standard Finish – GoldGalv®, unless otherwise stated.*



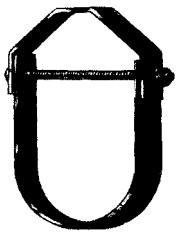
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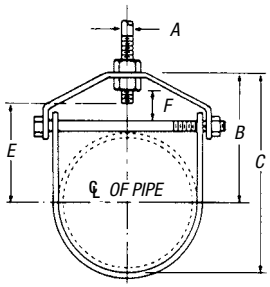
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## ETL-710 — Light-Duty Clevis Hanger






| CAT. NO. | TUBING SIZE (IN.) | MATERIAL SIZE | DIMENSIONS (IN.) | | | | | STD. CTN. |
|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | E | F | |
| ETL710 1/2 | ½ | 16 ga x ⅞ | ⅜ | 1 13/16 | 2 3/16 | 1¼ | 9/16 | 100 |
| ETL-710-3/4 | ¾ | 16 ga x ⅞ | ⅜ | 1¾ | 2¼ | 1¼ | 9/16 | 100 |
| ETL-710-1 | 1 | 16 ga x ⅞ | ⅜ | 1⅝ | 2 5/16 | 1⅛ | ½ | 100 |
| ETL-710-1-1/4 | 1¼ | 16 ga x ⅞ | ⅜ | 2 | 2¾ | 1⅛ | 11/16 | 100 |
| ETL-710-1-1/2 | 1½ | 16 ga x ⅞ | ⅜ | 2⅜ | 3⅛ | 1¼ | 1 | 100 |
| ETL-710-2 | 2 | 13 ga x ⅞ | ⅜ | 2 11/16 | 4 | 1½ | 11/16 | 100 |
| ETL-710-2-1/2 | 2½ | ⅛ x 1¼ | ½ | 3¼ | 4 11/16 | 2 | 1⅛ | 100 |
| ETL-710-3 | 3 | ⅛ x 1¼ | ½ | 3½ | 5 3/16 | 2¼ | 1 3/16 | 100 |
| ETL-710-3-1/2 | 3½ | ⅛ x 1¼ | ½ | 3¾ | 5 11/16 | 2½ | 1⅛ | 100 |
| ETL-710-4 | 4 | ⅛ x 1¼ | ½ | 4 5/16 | 6½ | 3 | 1 3/16 | 100 |
| ETL-710-5 | 5 | 3/16 x 1¼ | ⅝ | 5 | 7 11/16 | 3⅜ | 1 3/16 | 50 |
| ETL-710-6 | 6 | 3/16 x 1¼ | ⅝ | 5 11/16 | 8⅞ | 4⅛ | 1¼ | 50 |

*Standard Finish – GoldGalv®.*

*Carbon Steel.*

*Copper tube sized.*

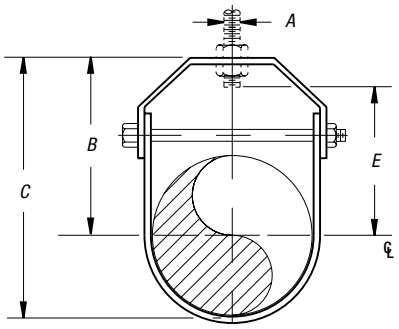
*For the suspension of stationary copper tubing lines. Order by Cat. No., tubing size.*

## CI-710 — Clevis Hanger for Ductile Iron and A.W.W.A. Cast Iron Pipe

Designed to support non-insulated, stationary ductile iron and A.W.W.A. cast iron lines from above, allowing for approximately 1" to 1½" of vertical adjustment after the pipe is in place. The lower nut (not furnished) adjusts the pipe line to the proper elevation. The top nut (not furnished) prevents loosening due to vibration and must be tightened securely to assure proper hanger performance.

### Specifications

- Material: Carbon Steel
- Compliance: MSS-SP-69 Type 1, A-A-1192A Type 1
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify pipe size, catalog number and finish




*CI-710*

| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | DIMENSIONS (IN.) | | | ROD TAKE OUT E (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|
| | | | A | B | C | | |
| CI-710-4 | 4 | 1,430 | ¾ | 5¾ | 8⅛ | 4⅜ | 2.08 |
| CI-710-6 | 6 | 1,940 | ⅞ | 7 | 10⅜ | 5½ | 2.78 |
| CI-710-8 | 8 | 2,000 | ⅞ | 9¼ | 13¾ | 7¾ | 4.47 |
| CI-710-10 | 10 | 3,600 | ⅞ | 10¼ | 15¾ | 8⅝ | 8.87 |
| CI-710-12 | 12 | 3,800 | ⅞ | 12⅝ | 19¼ | 11 | 12.0 |
| CI-710-14 | 14 | 4,200 | 1 | 14⅛ | 21¾ | 12¼ | 15.2 |
| CI-710-16 | 16 | 4,800 | 1 | 14⅞ | 23⅝ | 13 | 23.6 |
| CI-710-18 | 18 | 4,800 | 1¼ | 16½ | 26¼ | 14½ | 25.9 |
| CI-710-20 | 20 | 4,800 | 1¼ | 18¾ | 29½ | 16½ | 44.3 |
| CI-710-24 | 24 | 4,800 | 1¼ | 21⅞ | 34¾ | 19½ | 53.5 |

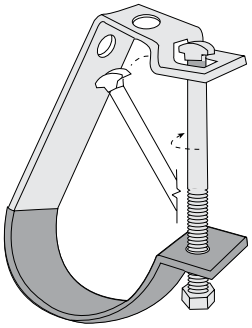
*Standard Finish – GoldGalv®, unless otherwise stated.*

# Pipe Straps, Conduit Clamps and Hangers

## C-711 — J Pipe Hanger

**Standard Finish – GoldGalv® brand**

Complies with Specification MSS SP 58, Type 5. Sizes through 5" conform to Ca. Code Title 24, Div. T22 for seismic restraint bracing.

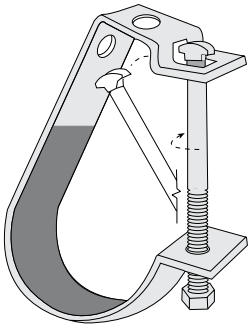


*Standard*

## C-711F — Felt-Lined J Pipe Hanger

**Standard Finish – GoldGalv® brand**

Available in sizes up to 8".

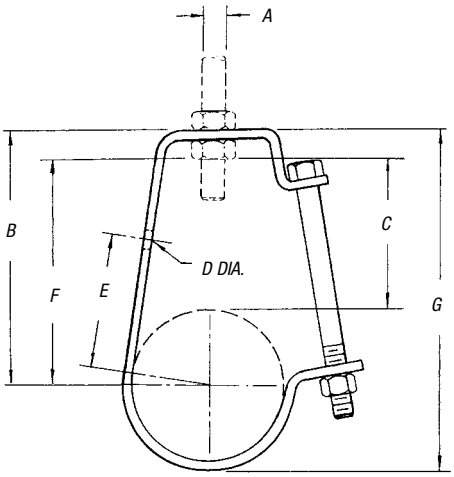


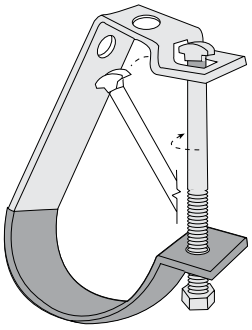
*Felt Lined*

## C-711P — Plastic-Coated J Pipe Hanger

**Standard Finish – GoldGalv® brand**

Isolates hanger from glass and other piping for corrosion or cushioning purposes. Available in sizes up to 4". Order by Cat. No. and pipe size. Hole provided for side mounting to wall as bracket.



*Plastic Coated*

| CAT. NO. | PIPE SIZE (IN.) | A ROD SIZE (IN.) | DIMENSIONS (IN.) B | C | D | E | F | BOLT SIZE (IN.) | G (IN.) | STOCK SIZE | MAX REC LOADS (LBS.) | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **C-711-1/2** | 1/2 | 3/8 | 2 5/8 | 1 3/4 | 7/16 | 1 1/2 | 1 15/16 | 1/4 | 3 5/32 | 12 ga x 3/4 | 400 | 50 |
| **C-711-3/4** | 3/4 | 3/8 | 2 7/8 | 1 7/8 | 7/16 | 1 11/16 | 2 1/8 | 1/4 | 3 1/2 | 12 ga x 3/4 | 400 | 50 |
| **C-711-1** | 1 | 3/8 | 2 15/16 | 1 15/16 | 7/16 | 1 13/16 | 2 5/16 | 1/4 | 3 11/16 | 12 ga x 3/4 | 400 | 50 |
| **C-711-1-1/4** | 1 1/4 | 3/8 | 3 1/4 | 2 | 7/16 | 2 1/16 | 2 5/8 | 1/4 | 4 1/8 | 12 ga x 3/4 | 400 | 50 |
| **C-711-1-1/2** | 1 1/2 | 3/8 | 3 9/16 | 2 3/16 | 7/16 | 2 7/16 | 2 7/8 | 1/4 | 4 5/8 | 12 ga x 3/4 | 400 | 50 |
| **C-711-2** | 2 | 3/8 | 3 11/16 | 2 1/8 | 7/16 | 2 9/16 | 3 1/16 | 1/4 | 5 | 12 ga x 3/4 | 400 | 50 |
| **C-711-2-1/2** | 2 1/2 | 1/2 | 4 7/16 | 2 7/16 | 9/16 | 3 3/16 | 3 5/8 | 3/8 | 6 | 12 ga x 1 1/4 | 500 | 25 |
| **C-711-3** | 3 | 1/2 | 4 13/16 | 2 9/16 | 9/16 | 3 1/2 | 4 1/16 | 3/8 | 6 21/32 | 12 ga x 1 1/4 | 500 | 25 |
| **C-711-3-1/2** | 3 1/2 | 1/2 | 5 1/8 | 2 5/8 | 9/16 | 3 3/4 | 4 3/8 | 3/8 | 7 5/16 | 3/16 x 1 1/4 | 500 | 25 |
| **C-711-4** | 4 | 5/8 | 6 1/8 | 3 3/16 | 9/16 | 4 5/8 | 5 3/16 | 3/8 | 8 9/16 | 3/16 x 1 1/4 | 550 | 10 |
| **C-711-5** | 5 | 5/8 | 6 3/4 | 3 1/4 | 9/16 | 5 1/16 | 5 3/8 | 3/8 | 9 23/32 | 3/16 x 1 1/4 | 550 | 10 |
| **C-711-6** | 6* | 3/4 | 7 3/4 | 3 9/16 | 9/16 | 5 13/16 | 6 5/8 | 3/8 | 11 1/4 | 3/16 x 1 3/4 | 600 | 10 |
| **C-711-8** | 8* | 7/8 | 9 3/16 | 3 15/16 | 9/16 | 6 15/16 | 8 | 3/8 | 13 11/16 | 3/16 x 1 3/4 | 760 | 8 |

**Hangers 6" and over have hole instead of slot.*



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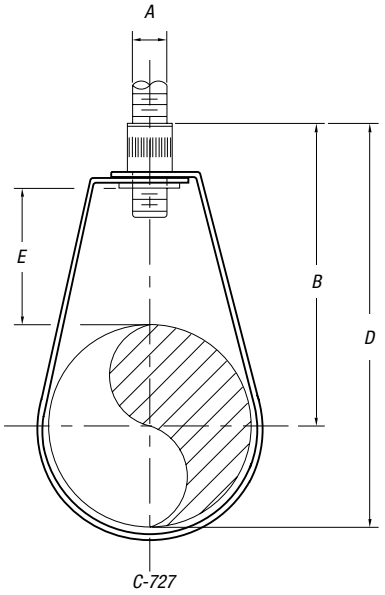
**United States**
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

www.tnb.com

# C-727 — Adjustable Swivel Ring

Designed for the support of non-insulated static pipe lines. The swivel nut is knurled to provide a gripping surface when adjusting the pipe elevation.




## Specifications

- Compliance: Federal Specification A-A-1192A Type 10, MSS SP-69 Type 10, UL Listed and FM Approved (¾" through 8"). We also offer Swivel Ring hangers that are for Copper Tubing (CT-727), PVC coated (C-727-P) and for NFPA requirements (C-727-NFPA) in this catalog
- Material: Carbon Steel
- Finish: Standard Finish – Pre-Galv,Electro-Galvanized (add suffix "-EG") Black (add suffix "-B")
- Ordering: Specify pipe size, catalog number and finish

| CAT. NO. | PIPE SIZE (IN.) | MAX LOAD (LBS.) | DIMENSIONS (IN.) A | B | D | E | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|
| C-727-1/2 | ½ | 300 | ⅜ | 2¾ | 3 1/16 | 1 7/16 | .09 |
| C-727-3/4 | ¾ | 300 | ⅜ | 2½ | 3 1/16 | 1⅛ | .10 |
| C-727-1 | 1 | 300 | ⅜ | 2½ | 3 3/16 | 1 | .10 |
| C-727-1-1/4 | 1¼ | 300 | ⅜ | 2 13/16 | 3 9/16 | 1 1/16 | .10 |
| C-727-1-1/2 | 1½ | 300 | ⅜ | 3⅛ | 3⅞ | 1 1/16 | .11 |
| C-727-2 | 2 | 300 | ⅜ | 3 5/16 | 4⅜ | 1⅛ | .12 |
| C-727-2-1/2 | 2½ | 600 | ½ | 3 11/16 | 5⅛ | 1¼ | .32 |
| C-727-3 | 3 | 600 | ½ | 4 | 5⅞ | 1⅛ | .35 |
| C-727-3-1/2 | 3½ | 600 | ½ | 4 5/16 | 6⅝ | 1½ | .39 |
| C-727-4 | 4 | 1,000 | ⅝ | 4 15/16 | 7⅛ | 1¼ | .43 |
| C-727-5 | 5 | 1,000 | ⅝ | 5⅝ | 8½ | 1⅜ | .65 |
| C-727-6 | 6 | 1,250 | ¾ | 6 11/16 | 10⅛ | 2 | 1.09 |
| C-727-8 | 8 | 1,800 | ⅞ | 8 5/16 | 12⅞ | 2⅝ | 1.24 |

*Standard Finish: Pre-Galv only.*

*Add "F" suffix for felt lining.*

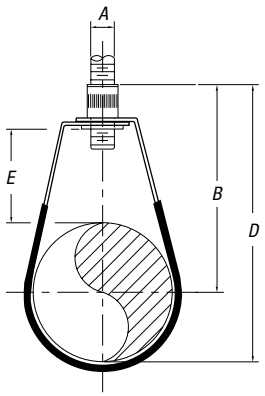
## C-727-P — PVC-Coated Adjustable Swivel Ring

Designed for the support of non-insulated static pipe lines and to protect the pipe from coming into direct contact with the hanger by having the contact surface PVC coated. The swivel nut is knurled to provide a gripping surface when adjusting the pipe elevation.

### Specifications

- Compliance: Federal Specification A-A-1192A Type 10, MSS SP-69 Type 10, UL Listed and FM Approved (¾" through 8")

  We also offer Swivel Ring hangers that are for Copper Tubing (CT-727) and for NFPA requirements (C-727-NFPA) in this catalog. Operating temperature should not exceed 140° F/60° C
- Material: Carbon Steel
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify pipe size and catalog number




*C-727-P*

| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | DIMENSIONS (IN.) A | B | D | E | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|
| C727P 1/2 | ½ | 300 | ⅜ | 2¾ | 3 1/16 | 1 7/16 | .11 |
| C-727-P-3/4 | ¾ | 300 | ⅜ | 2½ | 3 1/16 | 1⅛ | .13 |
| C-727-P-1 | 1 | 300 | ⅜ | 2½ | 3 3/16 | 1 | .13 |
| C-727-P-1-1/4 | 1¼ | 300 | ⅜ | 2 13/16 | 3 3/16 | 1 1/16 | .15 |
| C-727-P-1-1/2 | 1½ | 300 | ⅜ | 3⅛ | 3⅜ | 1 1/16 | .17 |
| C-727-P-2 | 2 | 300 | ⅜ | 3 5/16 | 4⅜ | 1⅛ | .18 |
| C-727-P-2-1/2 | 2½ | 600 | ½ | 3 11/16 | 5⅛ | 1¼ | .34 |
| C-727-P-3 | 3 | 600 | ½ | 4 | 5⅞ | 1⅛ | .39 |
| C-727-P-3-1/2 | 3½ | 600 | ½ | 4 5/16 | 6⅜ | 1½ | .42 |
| C-727-P-4 | 4 | 1,000 | ⅝ | 4 15/16 | 7⅛ | 1¼ | .48 |
| C-727-P-5 | 5 | 1,000 | ⅝ | 5⅝ | 8½ | 1⅜ | .69 |
| C-727-P-6 | 6 | 1,250 | ¾ | 6 1/16 | 10⅛ | 2 | 1.13 |
| C-727-P-8 | 8 | 1,800 | ⅞ | 8 5/16 | 12⅞ | 2⅝ | 1.29 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

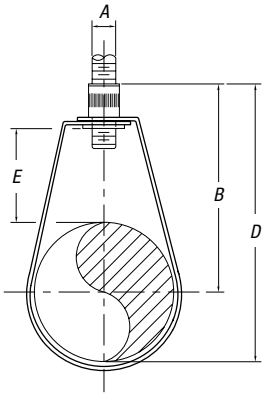
## C-727-NFPA — NFPA Swivel Ring

Designed for the support of non-insulated static pipe lines. The swivel nut is knurled to provide a gripping surface when adjusting the tubing elevation and is tapped to the reduced rod standards of NFPA.

### Specifications

- Compliance: Federal Specification A-A-1192A Type 10, MSS SP-69 Type 10, UL Listed and FM Approved (¾" through 8") and NFPA standards

  We also offer Swivel Ring hangers that are for standard commercial pipe (C-727), copper tubing (CT-727) and PVC coated (C-727-P) in this catalog
- Material: Carbon Steel
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify pipe size, catalog number and finish




*C-727-P*

| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | DIMENSIONS (IN.) A | B | D | E | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|
| C-727-NFPA-1/2 | ½ | 300 | ⅜ | 2¾ | 3 1/16 | 1 7/16 | .09 |
| C-727-NFPA-3/4 | ¾ | 300 | ⅜ | 2½ | 3 1/16 | 1⅛ | .10 |
| C-727-NFPA-1 | 1 | 300 | ⅜ | 2½ | 3 3/16 | 1 | .10 |
| C-727-NFPA-1-1/4 | 1¼ | 300 | ⅜ | 2 13/16 | 3 3/16 | 1 1/16 | .10 |
| C-727-NFPA-1-1/2 | 1½ | 300 | ⅜ | 3⅛ | 3⅜ | 1 1/16 | .11 |
| C-727-NFPA-2 | 2 | 300 | ⅜ | 3 5/16 | 4⅜ | 1⅛ | .12 |
| C-727-NFPA-2-1/2 | 2½ | 525 | ⅜ | 3 11/16 | 5 | 1¼ | .25 |
| C-727-NFPA-3 | 3 | 525 | ⅜ | 3¾ | 5 5/16 | 1⅛ | .30 |
| C-727-NFPA-3-1/2 | 3½ | 525 | ⅜ | 4 5/16 | 6 5/16 | 1½ | .33 |
| C-727-NFPA-4 | 4 | 650 | ⅜ | 4½ | 7 | 1⅜ | .41 |
| C-727-NFPA-5 | 5 | 1,000 | ½ | 5⅝ | 8⅜ | 2¼ | .58 |
| C-727-NFPA-6 | 6 | 1,000 | ½ | 6½ | 9 13/16 | 2 7/16 | .92 |
| C-727-NFPA-8 | 8 | 1,000 | ½ | 7 15/16 | 12¼ | 2⅝ | 1.16 |

*Standard Finish – GoldGalv®, unless otherwise stated.*



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Tel: 888.862.3289

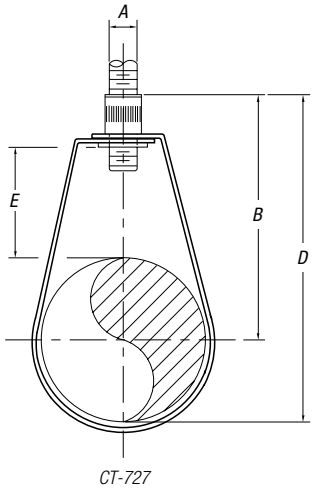
www.tnb.com

## CT-727 — Copper Tubing Swivel Ring

Designed for the support of non-insulated static copper tubing lines. The swivel nut is knurled to provide a gripping surface when adjusting the tubing elevation.

### Specifications

- Compliance: Federal Specification A-A-1192A Type 10, MSS SP-69 Type 10. We also offer Swivel Ring hangers that are for carbon steel pipe (C-727), PVC coated (C-727-P) and for NFPA requirements (C-727-NFPA) in this catalog
- Material: Carbon Steel
- Finish: Copper
- Ordering: Specify copper tubing size



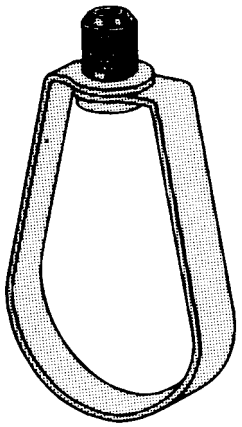
CT-727

| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | DIMENSIONS (IN.) | | | | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|
| | | | A | B | D | E | |
| CT727 1/2 | ½ | 300 | ⅜ | 2⅜ | 3¼ | 1 11/16 | .11 |
| CT-727-3/4 | ¾ | 300 | ⅜ | 2⅜ | 3⅛ | 1⅜ | .11 |
| CT-727-1 | 1 | 300 | ⅜ | 2½ | 3⅛ | 1 | .11 |
| CT-727-1-1/4 | 1¼ | 300 | ⅜ | 2¾ | 3¼ | 1 5/16 | .13 |
| CT-727-1-1/2 | 1½ | 300 | ⅜ | 2 15/16 | 3⅝ | 1⅛ | .13 |
| CT-727-2 | 2 | 300 | ⅜ | 3 5/16 | 4⅛ | 1 1/16 | .15 |
| CT-727-2-1/2 | 2½ | 525 | ⅜ | 4 | 4⅝ | 1⅛ | .16 |
| CT-727-3 | 3 | 525 | ½ | 4 9/16 | 5 9/16 | 1 5/16 | .32 |
| CT-727-3-1/2 | 3½ | 525 | ½ | 4 9/16 | 5⅞ | 1⅛ | .35 |
| CT-727-4 | 4 | 650 | ½ | 5 9/16 | 6½ | 1 3/16 | .38 |
| CT-727-5 | 5 | 1,000 | ½ | 6¼ | 8⅜ | 1⅝ | .58 |
| CT-727-6 | 6 | 1,000 | ½ | 7 3/16 | 9 13/16 | 2¼ | .92 |

*Standard Finish – GoldGalv® unless otherwise stated.*

## ET-727 Copper Sized Adjustable Ring

Standard Finish – GoldGalv® barrier for separation of dissimilar metals. Available in sizes ½" through 2". Sized for Copper Tubing.



| CAT. NO. | TUBING SIZE (IN.) | ROD SIZE (IN.) | DIMENSIONS (IN.) | | | STOCK SIZE | MAX REC. LOAD (LBS.) | STD. CTN. |
|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | | | |
| ET727 1/2 | ½ | ⅜ | 3⅛ | 2¾ | 1½ | 16 ga x ⅝ | 400 | 100 |
| ET-727-3/4 | ¾ | ⅜ | 3⅛ | 2⅝ | 1¼ | 16 ga x ⅝ | 400 | 100 |
| ET-727-1 | 1 | ⅜ | 3⅛ | 2½ | 1 | 16 ga x ⅝ | 400 | 100 |
| ET-727-1-1/4 | 1¼ | ⅜ | 3¼ | 2½ | 1 | 16 ga x ⅝ | 400 | 100 |
| ET-727-1-1/2 | 1½ | ⅜ | 3⅜ | 3 | 1¼ | 16 ga x ⅝ | 400 | 100 |
| ET-727-2 | 2 | ⅜ | 4½ | 3⅜ | 1½ | 16 ga x ⅝ | 400 | 100 |
| ET-727-2-1/2 | 2½ | ⅜* | 5½ | 4⅜ | 2 | 14 ga x 1 3/16 | 600 | 100 |
| ET-727-3 | 3 | ½ | 6⅜ | 4¾ | 2 | 14 ga x 1 3/16 | 600 | 100 |
| ET-727-3-1/2 | 3½ | ½ | 6⅜ | 4½ | 1½ | 14 ga x 1 3/16 | 600 | 50 |
| ET-727-4 | 4 | ½* | 7⅜ | 5¼ | 2 | 14 ga x 1¼ | 1,250 | 100 |
| ET-727-5 | 5 | ⅝ | 8⅜ | 5¾ | 2 | 12 ga x 1¼ | 1,250 | 25 |
| ET-727-6 | 6 | ⅝ | 9½ | 6⅜ | 1⅛ | 12 ga x 1¼ | 1,250 | 25 |

*2½" CT filled with water weighs less than 2" IP filled with water, 4" CT less than 3½" IP with water.*

*2½" CT available with ½" thread and 4" CT available with ⅝" thread for Government Specs.*

*Standard Finish – GoldGalv®, unless otherwise stated.*

# M-718, M-718-B — Extension Ring Hanger

M-718 — (Rod Tapped – Electro-Galvanized)
M-718-B — (Rod Tapped – Plain Finish)

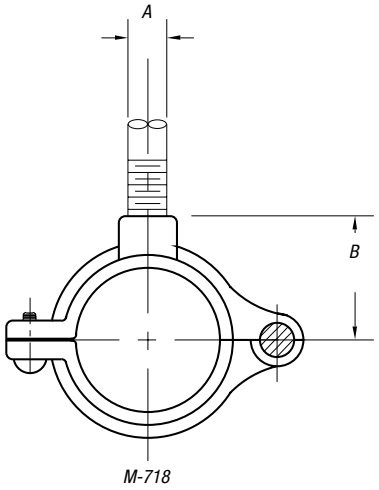
This split ring hanger is designed for the support of non-insulated stationary pipe lines. Also available in a two-screw design. The MT-742-R Ceiling Plate is normally used with this product.

## Specifications

- Material: Malleable Iron.
- Finish: Standard Finish – EG (silver), Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Compliance: Federal Specification A-A-1192A Type 12, MSS-SP-69 Type 12
- Ordering: Specify pipe size and catalog number.

| CAT. NO. | PIPE SIZE (IN.) | MAX LOAD (LBS.) | PIPE SIZE A (IN.) | ROD SIZE A (IN.) | B (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|
| M-718-3/8 | 3/8 | 180 | 1/4 | 3/8 | 13/16 | .16 |
| M-718-1/2 | 1/2 | 180 | 1/4 | 3/8 | 7/8 | .17 |
| M-718-3/4 | 3/4 | 180 | 1/4 | 3/8 | 1 | .20 |
| M-718-1 | 1 | 180 | 1/4 | 3/8 | 1 1/8 | .21 |
| M-718-1-1/4 | 1 1/4 | 180 | 1/4 | 3/8 | 1 7/16 | .29 |
| M-718-1-1/2 | 1 1/2 | 180 | 1/4 | 3/8 | 1 5/16 | .31 |
| M-718-2 | 2 | 180 | 1/4 | 3/8 | 1 11/16 | .35 |
| M-718-2-1/2 | 2 1/2 | 480 | 1/2 | 1/2 | 2 1/8 | .57 |
| M-718-3 | 3 | 480 | 1/2 | 1/2 | 2 7/16 | .72 |
| M-718-4 | 4 | 480 | 1/2 | 1/2 | 3 1/5 | 1.16 |

*Standard Finish – EG (silver).*



M-718

# MT-718 — Copper Extension Ring Hanger

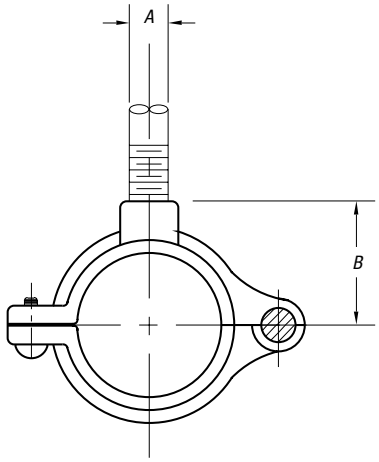
This split ring hanger is designed for the support of non-insulated copper tubing lines. The MT-718 is furnished tapped for bolt thread and is used with the MT-742-R Ceiling Plate. Also available in a two-bolt design.

## Specifications

- Material: Malleable Iron
- Finish: Copper
  For Electro-Galvanizing please see M-718.
- Compliance: Federal Specification A-A-1192A Type 12, MSS-SP-69 Type 12
- Ordering: Specify tube size and catalog number.

| CAT. NO. | TUBE SIZE (IN.) | MAX LOAD (LBS.) | ROD SIZE A (IN.) | B (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|---|
| MT718-1/4 | 1/4 | 180 | 3/8 | 1/2 | .10 |
| MT-718-3/8 | 3/8 | 180 | 3/8 | 1/2 | .12 |
| MT-718-1/2 | 1/2 | 180 | 3/8 | 3/4 | .13 |
| MT-718-5/8 | 5/8 | 180 | 3/8 | 3/4 | .14 |
| MT-718-3/4 | 3/4 | 180 | 3/8 | 7/8 | .15 |
| MT-718-1 | 1 | 180 | 3/8 | 1 | .16 |
| MT-718-1-1/4 | 1 1/4 | 180 | 3/8 | 1 1/4 | .19 |
| MT-718-1-1/2 | 1 1/2 | 180 | 3/8 | 1 1/4 | .22 |
| MT-718-2 | 2 | 180 | 3/8 | 1 1/2 | .27 |
| MT-718-2-1/2 | 2 1/2 | 480 | 1/2 | 2 | .72 |
| MT-718-3 | 3 | 480 | 1/2 | 2 1/4 | 1.07 |

*Standard Finish – GoldGalv®, unless otherwise stated.*



MT-718



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**United States**
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

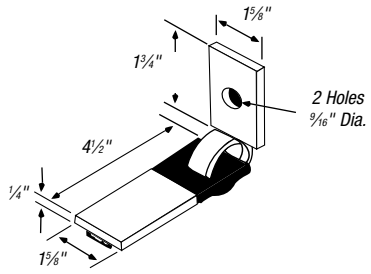
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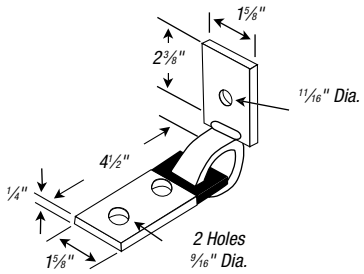
# Pipe Straps, Conduit Clamps and Hangers

## Seismic Bracing

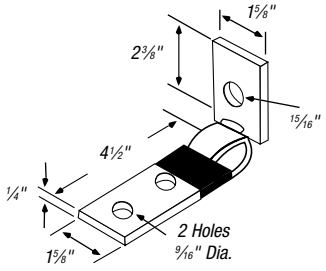
(Consult Superstrut® Seismic Hanger bulletin for additional information.)



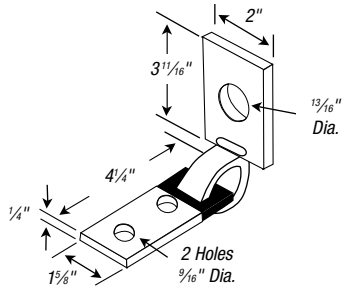

***CAT. NO. C749N***
*Seismic Brace*
*1,500 lb. load safety factor of 3*



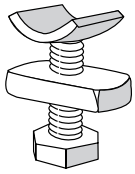

***CAT. NO. C749N 5/8***
*Seismic Brace*
*1,650 lb. load safety factor of 3*




***CAT. NO. C749N 7/8***
*Seismic Brace*
*1,650 lb. load safety factor of 3*




***CAT. NO. C-749-N-1-1/8***
*Seismic Brace*
*1,650 lb. load safety factor of 3*

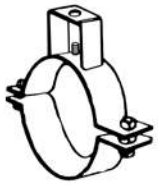


***CAT. NO. ES-142***
*Size: ½" x 1¼" Bolt Size: ½"*
*Seismic bracing rod stiffener connector*

All braces have plastisol coating on the flat member. Plastisol insulates against vibration noise transmission and eliminates rattle at the connection points.

*Standard Finish – GoldGalv® brand. Approved for seismic applications.*

## S-720 — Adjustable Pipe Hanger



| CAT. NO. | PIPE SIZE (IN.) | ROD SIZE (IN.) | ADJUSTMENT (IN.) | BOLT CENTERS (IN.) | STOCK SIZE (IN.) | BOLT SIZE (IN.) | DESIGN LOAD (LBS.) | STD. CTN. |
|---|---|---|---|---|---|---|---|---|
| **S720 3/4** | ¾ | ⅜ | 1⅝ | 4½ | 3⁄16 x 1¼ | ½–1¼ | 550 | 10 |
| **S-720-1** | 1 | ⅜ | 1½ | 4½ | 3⁄16 x 1¼ | ½–1¼ | 550 | 10 |
| **S-720-1-1/4** | 1¼ | ⅜ | 1⅜ | 5 | 3⁄16 x 1¼ | ½–1¼ | 550 | 10 |
| **S-720-1-1/2** | 1½ | ⅜ | 1½ | 4½ | 3⁄16 x 1¼ | ½–1¼ | 550 | 10 |
| **S-720-2** | 2 | ⅜ | 1½ | 5 | ¼ x 1¼ | ½–1¼ | 700 | 10 |
| **S-720-2-1/2** | 2½ | ½ | 2⅛ | 5⅜ | ¼ x 1¼ | ½–1¼ | 700 | 10 |
| **S-720-3** | 3 | ½ | 2¼ | 6¼ | ¼ x 1¼ | ½–1¼ | 1,100 | 10 |
| **S-720-3-1/2** | 3½ | ½ | 2¼ | 6¾ | ¼ x 1¼ | ½–1¼ | 1,100 | 10 |
| **S-720-4** | 4 | ½ | 2¼ | 7¼ | ¼ x 1¼ | ½–1¼ | 1,300 | 10 |
| **S-720-5** | 5 | ⅝ | 2¼ | 8½ | ¼ x 1½ | ⅝–1½ | 1,600 | 10 |
| **S-720-6** | 6 | ⅝ | 2¼ | 9½ | ¼ x 1½ | ⅝–1½ | 1,600 | 5 |
| **S-720-8** | 8 | ¾ | 2⅛ | 11½ | ¼ x 2 | ¾–2 | 2,000 | 5 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

## Pipe Straps, Conduit Clamps and Hangers

# PG-794 — Pipe Alignment Guide

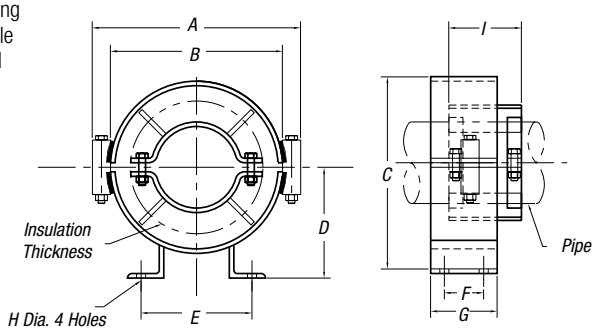
Designed to maintain the axial alignment of piping as it expands and contracts during operation. It is most typically installed adjacent to expansion joints and at reasonable distances between the expansion joint and the anchor point. Our Figures 1007 and 1010 also offer alternative means for your piping alignment needs.

***Note:*** *Guides are not designed to carry dead weight loads. Maximum temperature is 750° F.*

### Specifications

- Material: Carbon Steel
- Finish: EG (Silver), Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify pipe size, insulation thickness, catalog number and finish.

**Example Catalog Number:** PG794 T3-2-1/2 would be 2½" pipe with 2" thick insulation.




M-718

| SIZE | DIMENSIONS (IN.) A | B | C | D | E | F | G | H | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 6¾ | 4½ | 5⅜ | 3⅛ | 5 | 1½ | 3 | ⅝ | 5.8 |
| 2 | 7¼ | 5⅝ | 6⅜ | 3½ | 6¾ | 1½ | 3 | ⅝ | 7.2 |
| 3 | 8⅜ | 6⅝ | 7⅜ | 4 | 6¾ | 1½ | 3 | ⅝ | 8.2 |
| 4 | 10⅜ | 8⅝ | 9⅜ | 5 | 7⅜ | 1½ | 3 | ⅝ | 10.6 |
| 5 | 12⅓ | 10¾ | 11⅜ | 6¼ | 7⅜ | 2 | 4 | ⅝ | 15.6 |
| 6 | 14⅜ | 12¾ | 13⅜ | 7¼ | 8 | 2 | 4 | ⅝ | 19.5 |
| 7 | 16⅜ | 14¾ | 15⅞ | 8½ | 9¾ | 2 | 4 | ¾ | 26.8 |
| 8 | 18⅜ | 16¾ | 17⅞ | 9½ | 10¼ | 4 | 6 | ¾ | 35.6 |
| 9 | 22⅜ | 19 | 20 | 10½ | 11¼ | 4 | 6 | ¾ | 44.2 |
| 10 | 23⅜ | 21 | 22 | 11½ | 14⅛ | 4 | 6 | ⅞ | 52.6 |
| 11 | 25⅝ | 23 | 24 | 12½ | 14¾ | 4 | 6 | ⅞ | 66.3 |
| 12 | 28⅜ | 25¾ | 26⅝ | 13¾ | 15⅞ | 4 | 6 | 1 | 79.7 |
| 13 | 32⅛ | 29½ | 30½ | 15¾ | 16⅜ | 5½ | 8 | 1 | 106.3 |
| 14 | 36⅛ | 33½ | 34½ | 17¾ | 17⅛ | 5½ | 8 | 1 | 116.8 |

| SIZE NUMBER | THICKNESS OF INSULATION (IN.) 1 | 1½ | 2 | 2½ | 3 | 4 |
|---|---|---|---|---|---|---|
| 1 | 1 | | | | | |
| 2 | 1¼–2 | 1 | | | | |
| 3 | 2½ | 1¼–2 | 1 | | | |
| 4 | 3–4 | 2½–3½ | 1¼–2½ | 1–2 | 1 | |
| 5 | 5–6 | 4–5 | 3–4 | 2½–3½ | 1¼–2½ | 1 |
| 6 | | 6 | 5–6 | 4–5 | 3–4 | 1¼–2½ |
| 7 | | 8 | 8 | 6 | 5–6 | 3–4 |
| 8 | | 10 | 10 | 8 | 8 | 5–6 |
| 9 | | 12 | 12 | 10 | 10 | 8 |
| 10 | | | 14 | 12–14 | 12 | 10 |
| 11 | | | 16 | 16 | 14 | 12 |
| 12 | | | | | 16–18 | 14–16 |
| 13 | | | | | 20 | 18–20 |
| 14 | | | | | 24 | 24 |

*Standard Finish – EG (silver).*

| PIPE SIZE (IN.) | DIM. I | MAX. MVT |
|---|---|---|
| 1–6 | 4 | 4 |
| 8–16 | 6 | 6 |
| 18–24 | 8 | 8 |

### Insulation Thickness Table

| PRODUCT DESIGNATION | INSULATION THICKNESS (IN.) | FOR PIPE SIZES |
|---|---|---|
| T1 | 1 | ½–24 |
| T2 | 1½ | ½–24 |
| T3 | 2 | ½–24 |
| T4 | 2½ | ½–24 |
| T5 | 3 | ½–24 |
| T6 | 3½ | ½–24 |
| T7 | 4 | ½–24 |

*Standard Finish – GoldGalv®, unless otherwise stated.*



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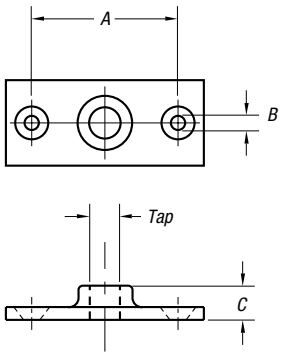
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800.816.7809
Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

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# Structure Attachments

## M-742-R Ceiling Flange



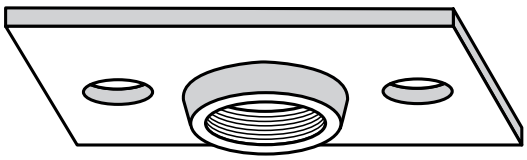

M-742-R, M-742-RB, MT-742-R – Single Plate

M-742-R — (Rod Tapped – Electro-Galvanized)
M-742-RB — (Rod Tapped – Plain Finish)
MT-742-R — (Rod Tapped – Copper Finish)

Designed for attaching a rod to a wooden member.
This part is normally used in conjunction with our M-718 Split Ring.

### Specifications

- Material: Malleable Iron. M-742-R is Carbon Steel.
- Ordering: Specify rod size and catalog number.



*M-742-R*
*Rod Sizes: ⅜" & ½"*

| CAT. NO. | ROD TAP (IN.) | MAX. LOAD (LBS.) | DIMENSIONS (IN.) | | | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|
| | | | A | B | C | |
| **M-742-R-3/8** | ⅜ | 180 | 2 | ¼ | ½ | .19 |
| **M-742-R-1/2** | ½ | 180 | 2 | ¼ | ½ | .18 |

*Standard Finish – Black (B), EG (Silver) or Copper-Colored Epoxy Paint.*

## C-736-Side Clip — Steel Bracket Clip

Clip can be used to support piping 3½" or smaller from the horizontal member of a C-736 Steel Bracket. The clip is composed of two steel plates and one bolt and nut.

### Specifications

- Material: Carbon Steel
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify size number, catalog number and finish.

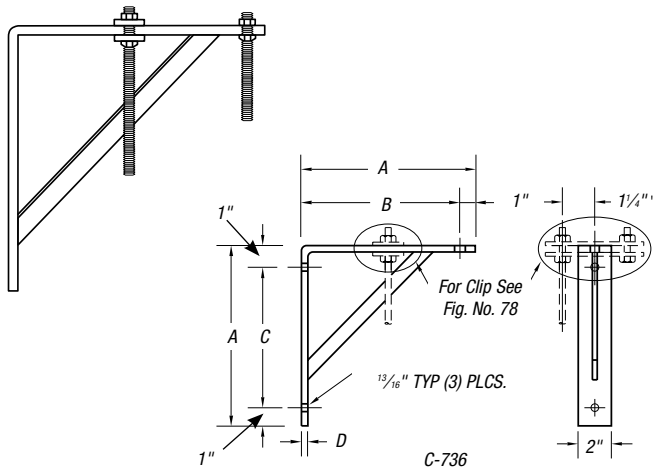
| CAT. NO. | ROD SIZE (IN.) | SIZE (IN.) | MAX. LOAD (LBS.) | WT. EACH (LBS.) |
|---|---|---|---|---|
| **C-736-SIDE CLIP-1** | 1 | ⅜ | 750 | 6.99 |
| **C-736-SIDE CLIP-2** | 2 | ½ | 750 | 10.10 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

## Pipe Straps, Conduit Clamps and Hangers

# C-736 — Light Welded Steel Bracket

Designed to support up to 6" pipe. This bracket is for installation to walls as shown or inverted, and may require a backing plate. Holes for up to ¾" rods are located at each end of the bracket to allow for use in either orientation. The C-736 Side Clip Steel Bracket Clip can be attached to the C-736 to support piping 3½" or smaller. Please see Figure 79 for more information.



C-736

### Specifications

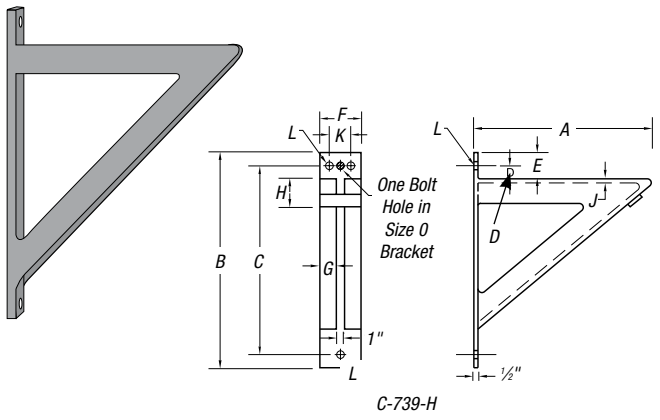
- Compliance: A-A-1192A Type 31, MSS-SP 69 Type 31
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify size number, catalog number and finish.

| CAT. NO. | ROD TAP | MAX. LOAD (LBS.) | DIMENSIONS (IN.) A | B | C | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|
| C-736-1 | 1 | 750 | 9 | 8 | 6½ | 6.99 |
| C-736-2 | 2 | 750 | 13 | 12 | 10½ | 10.10 |
| C-736-3 | 3 | 750 | 19 | 18 | 16½ | 10.50 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

# C-739-H — Heavy Welded Steel Bracket

Designed to support pipe from either above or below. Slotted construction allows for drop rod use along the length of the bracket. This bracket is for bolted installation to walls and may require a backing plate. Special steel brackets can be fabricated to customers loads and/or dimensions.



C-739-H

### Specifications

- Compliance: A-A-1192A Type 33, MSS-SP 69 Type 33
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify size number, catalog number and finish.

| CAT. NO. | SIZE | MAX. LOAD (LBS.) | DIMENSIONS (IN.) A | B | C | D | E | F | G | H | J | K | L | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C-739-H-0 | 0 | 3,000 | 12 | 18 | 15¼ | 1½ | 2¾ | 4½ | 1½ | 2 | ¼ | NA | 13/16 | 25.1 |
| C-739-H-1 | 1 | 3,000 | 18 | 24 | 21⅜ | 1½ | 2¾ | 5 | 1½ | 2 | ⅜ | 2¾ | 13/16 | 44.8 |
| C-739-H-2 | 2 | 3,000 | 24 | 30 | 27½ | 1½ | 2¾ | 5 | 1½ | 2½ | ⅜ | 2½ | 1 1/16 | 60.7 |
| C-739-H-3 | 3 | 3,000 | 30 | 36 | 33¼ | 1⅝ | 3 | 6 | 2 | 2½ | ⅜ | 2½ | 1 1/16 | 98.1 |
| C-739-H-4 | 4 | 3,000 | 36 | 42 | 39 | 1½ | 3 | 6 | 2 | 3½ | ⅜ | 3½ | 1 1/16 | 129.4 |
| C-739-H-5 | 5 | 3,000 | 42 | 50 | 46 | 1½ | 3½ | 7 | 2½ | 3½ | ⅜ | 3½ | 1 1/16 | 177.2 |



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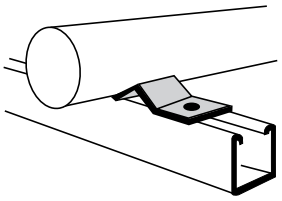
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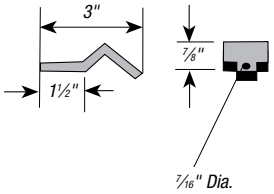
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## PG-795 — Pipe Block

*Standard Finish — Black (B).*






# Pipe Attachments

## H-115, H-115SS — Standard U-Bolt

Our standard U-Bolts are recommended for use as supports or guides for piping. They are supplied with four hex nuts. The H-115SS is recommended for support of stainless steel piping. Please specify the grade of stainless steel you require when ordering. Load Ratings shown are for Carbon Steel. PVC coating should not exceed 140° F/60° C.




### Specifications

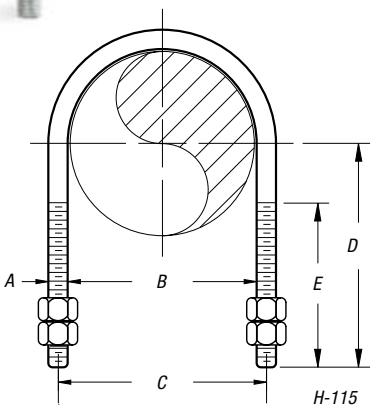
- Materials: Carbon Steel, Stainless Steel
- Compliance: Federal Specification A-A-1192A Type 24, MSS-SP 69 Type 24, and BSPSS-BS3974
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG"), SS (add suffix SS), SS6 = 316

  Side loads are given for the H-115 for a maximum temperature of 650° F/343° C.

When the loading condition requires the simultaneous application of a normal load and side load, the following interaction equation must be used to determine if the H-115 can be used.

(Actual Load / Maximum Design Load) + (Actual Side Load/Maximum Side Load). The result of this equation cannot exceed the value of 1.0 if the H-115 is to be used.

- Ordering: Specify pipe size, catalog number and finish.




| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) 650° F/ 343° C | MAX. LOAD (LBS.) 750° F/ 399° C | MAX. SIDE LOAD (LBS.) 650° F/343° C | DIMENSIONS (IN.) A | B | C | D | E | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|
| **H-115-1/2** | ½ | 485 | 435 | 63 | ¼ | 1⅜ | 1⅛ | 2¾ | 2⅛ | .11 |
| **H-115-3/4** | ¾ | 485 | 435 | 63 | ¼ | 1⅛ | 1⅜ | 2¾ | 2⅛ | .12 |
| **H-115-1** | 1 | 485 | 435 | 63 | ¼ | 1⅜ | 1⅝ | 2¾ | 2⅛ | .12 |
| **H-115-1/2** | ½ | 1,200 | 1,070 | 316 | ⅜ | 1⅜ | 1¼ | 2¾ | 2⅛ | .16 |
| **H-115-3/4** | ¾ | 1,200 | 1,070 | 240 | ⅜ | 1⅛ | 1½ | 2¾ | 2⅛ | .16 |
| **H-115-1** | 1 | 1,200 | 1,070 | 186 | ⅜ | 1⅜ | 1¾ | 2¾ | 2⅛ | .19 |
| **H-115-1-1/4** | 1¼ | 1,220 | 1,090 | 194 | ⅜ | 1¾ | 2⅛ | 2⅞ | 2⅛ | .28 |
| **H-115-1-1/2** | 1½ | 1,220 | 1,090 | 194 | ⅜ | 2 | 2⅜ | 3 | 2½ | .30 |
| **H-115-2** | 2 | 1,220 | 1,090 | 194 | ⅜ | 2½ | 2⅞ | 3¼ | 2½ | .33 |
| **H-115-2-1/2** | 2½ | 2,260 | 2,020 | 184 | ½ | 3 | 3½ | 3¾ | 3 | .70 |
| **H-115-3** | 3 | 2,260 | 2,020 | 184 | ½ | 3⅜ | 4⅛ | 4 | 3 | .78 |
| **H-115-3-1/2** | 3½ | 2,260 | 2,020 | 184 | ½ | 4⅛ | 4⅝ | 4½ | 3 | .84 |
| **H-115-4** | 4 | 2,260 | 2,020 | 184 | ½ | 4⅝ | 5⅛ | 4½ | 3 | .90 |

# Pipe Straps, Conduit Clamps and Hangers

## Beam Attachments

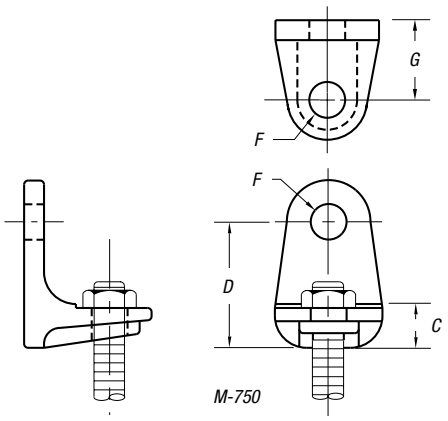
### M-750 — Side Beam Bracket

Designed for bolt connections.

**Specifications**

- Compliance: A-A-1192A Type 34 and MSS-SP 69 Type 34
- Material: Malleable Iron (Maximum Temperature 450° F/232° C)
- Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify rod size and catalog number.

| CAT. NO. | MAX LOAD (LBS.) ROD SIZE (IN.) | MAX LOAD (LBS.) WITH LAG SCREW | WITH BOLT TO STEEL | DIMENSIONS (IN.) C | D | F | G | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|---|
| M-750-3/8 | 3/8 | 390 | 610 | 5/8 | 1 7/16 | 7/16 | 7/8 | .26 |
| M-750-1/2 | 1/2 | 640 | 1,130 | 3/4 | 1 7/8 | 9/16 | 1 3/16 | .54 |
| M-750-5/8 | 5/8 | 760 | 1,810 | 7/8 | 2 1/8 | 3/4 | 1 7/16 | .94 |



M-750

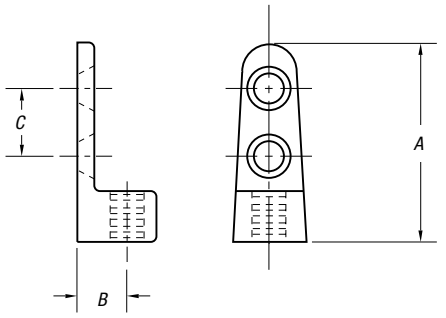
### M-762 — Side Beam Connector

Designed for use on buildings of wood construction. They can be secured to the side of beams or joists by means of our Figure 166 Drive Screws (ordered separately).

**Specifications**

- Material: Malleable Iron
- Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify size, catalog number and finish.

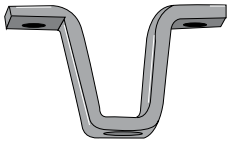
| CAT. NO. | SIZE (IN.) | MAX LOAD (LBS.) | DIMENSIONS (IN.) A | B | C | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|
| M-762-3/8 | 3/8 rod | 250 | 2 3/8 | 3/4 | 3/4 | .13 |
| M-762-1/2 | 1/2 rod | 480 | 2 3/4 | 3/4 | 3/4 | .25 |
| M-762-1/4 | 1/4 pipe | 250 | 2 3/4 | 3/4 | 3/4 | .25 |

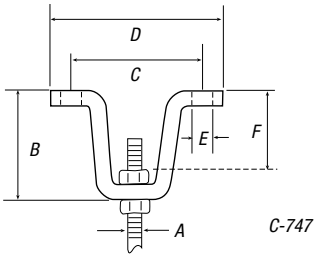


M-762

### C-747 — Adjustable Beam Attachment

For attachment to timber with coach screws or to the bottom of beams with bolts.





C-747

| CAT. NO. | ROD SIZE A (IN.) | HOLE SIZE (IN.) | DIMENSIONS (IN.) B | C | D | E | F | STOCK SIZE (IN.) | DESIGN LOAD (LBS.) | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|---|
| C-747-3/8B | 3/8B | 7/16 | 2 3/4 | 3 7/8 | 4 7/8 | 7/16 | 2 1/8 | 1/4 x 1 1/4 | 610 | 50 |
| C-747-1/2B | 1/2B | 9/16 | 3 1/8 | 4 3/4 | 6 | 9/16 | 2 5/16 | 3/8 x 1 1/2 | 1,130 | 50 |
| C-747-5/8B | 5/8B | 11/16 | 3 1/8 | 4 3/4 | 6 | 9/16 | 2 3/16 | 3/8 x 1 1/2 | 1,810 | 50 |
| C-747-3/4B | 3/4B | 13/16 | 3 11/16 | 6 1/4 | 7 3/4 | 11/16 | 2 9/16 | 1/2 x 2 | 2,710 | 50 |
| C-747-7/8B | 7/8B | 15/16 | 3 3/4 | 6 3/8 | 8 1/4 | 13/16 | 2 1/2 | 1/2 x 2 | 3,770 | 50 |

*Standard Finish — Black (B).*

*Order by Cat. No., rod size.*



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# Pipe Straps, Conduit Clamps and Hangers



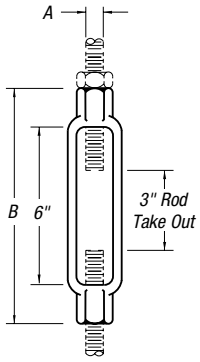
## Rods and Rod Attachments

## F-112 — Turnbuckle

Used to connect right- and left-hand threaded rods together and provide for adjustment.

### Specifications

- Material: Forged Steel
- Compliance: Federal Specification A-A-1192A Type 13, MSS-SP 69 Type 13 and BSPSS-BS3974
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Specify catalog number, finish and rod size.




F-112

| CAT. NO. | ROD SIZE (IN.) | MAX LOAD (LBS.) 650° F/343° C | B (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|
| F-112-3/8 | 3/8 | 610 | 7 1/8 | .30 |
| F-112-1/2 | 1/2 | 1,130 | 7 1/2 | .60 |
| F-112-5/8 | 5/8 | 1,810 | 7 7/8 | 1.00 |
| F-112-3/4 | 3/4 | 2,710 | 8 1/4 | 1.20 |
| F-112-7/8 | 7/8 | 3,370 | 8 5/8 | 1.90 |
| F-112-1 | 1 | 4,960 | 9 | 2.50 |
| F-112-1-1/4 | 1 1/4 | 8,000 | 9 1/8 | 3.80 |
| F-112-1-1/2 | 1 1/2 | 11,630 | 9 3/4 | 5.70 |
| F-112-1-3/4 | 1 3/4 | 15,700 | 10 3/8 | 8.20 |
| F-112-2 | 2 | 20,700 | 11 | 14.20 |
| F-112-2-1/4 | 2 1/4 | 27,200 | 12 7/8 | 27.00 |
| F-112-2-1/2 | 2 1/2 | 33,500 | 13 1/2 | 33.00 |

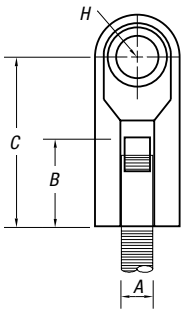
*Standard Finish – GoldGalv®, unless otherwise stated.*

## M-129 — Extension Piece

Designed for attaching rods to the M-732-EXT Clamp and similar types of attachments.

### Specifications

- Material: Malleable Iron
- Compliance: Federal Specification A-A-1192A Type 30, MSS-SP-69 Type 30 when used with a Figure 82
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Specify rod size, catalog number and finish




M-129

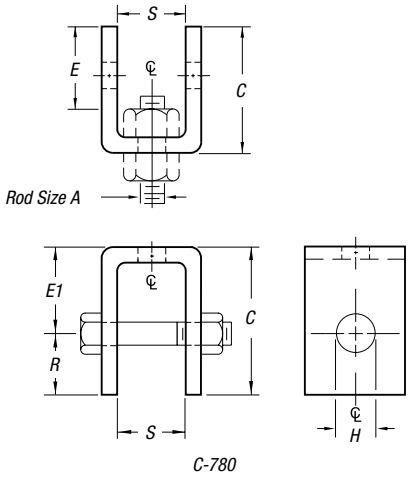
| CAT. NO. | ROD SIZE (IN.) | MAX LOAD (LBS.) | DIMENSIONS (IN.) | | | | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|
| | | | B | C | G | H | |
| M-129-3/8 | 3/8 | 610 | 1 1/4 | 2 1/8 | 1/2 | 1/2 | .20 |
| M-129-1/2 | 1/2 | 1,130 | 1 3/8 | 2 3/8 | 5/8 | 1/2 | .40 |
| M-129-5/8 | 5/8 | 1,810 | 1 1/2 | 2 1/2 | 5/8 | 1/2 | .44 |
| M-129-3/4 | 3/4 | 2,710 | 1 3/4 | 2 7/8 | 5/8 | 1/2 | .65 |
| M-129-7/8 | 7/8 | 2,950 | 1 7/8 | 3 | 3/4 | 9/16 | .78 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

## Structure Attachments

# C-780 W/OB, C-780 W/HWB — Welded Beam Attachment

Recommended for attachment to the bottom of beams when little or no pipe movement is expected. C-780 W/HWB is recommended for attachment to the bottom of beams, when pipe movement is expected. A bolt and nut or pin is supplied. A pin with cotters is normally supplied for rod sizes over 1".




C-780

### Specifications

- Compliance: Federal Specification A-A-1192A Type 22, MSS SP-69 Type 22 and BSPSS-BS3974
- Material: Carbon Steel
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify catalog number, rod size and finish.

| CAT. NO. | ROD SIZE (IN.) | MAX. LOAD (LBS.) 650° F/ 343° C | BOLT OR PIN SIZE (IN.) | C (IN.) | ROD TAKEOUT C-780 W/OB E (IN.) | ROD TAKEOUT C-780 W/HWB E1 (IN.) | H (IN.) | R (IN.) | S (IN.) | WT. EACH (LBS.) C-780 W/OB W/O B&N | WT. EACH (LBS.) C-780 W/HWB W B&N |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **C-780-3/8** | 3/8 | 610 | 1/2 | 2 7/8 | 1 7/8 | 2 | 9/16 | 7/8 | 1 1/4 | .96 | 1.20 |
| **C-780-1/2** | 1/2 | 1,130 | 5/8 | 2 7/8 | 1 3/4 | 2 | 11/16 | 7/8 | 1 1/4 | .96 | 1.20 |
| **C-780-5/8** | 5/8 | 1,810 | 3/4 | 2 7/8 | 1 3/4 | 2 | 13/16 | 7/8 | 1 1/4 | .96 | 1.60 |
| **C-780-3/4** | 3/4 | 2,710 | 7/8 | 3 1/8 | 1 1/8 | 2 | 1 15/16 | 1 1/8 | 2 1/8 | 1.90 | 2.80 |
| **C-780-7/8** | 7/8 | 3,770 | 1 | 4 1/4 | 2 3/8 | 3 | 1 1/8 | 1 1/4 | 2 1/8 | 2.50 | 3.90 |
| **C-780-1** | 1 | 4,960 | 1 1/8 | 4 1/2 | 3 | 3 1/2 | 1 1/4 | 1 1/2 | 2 7/8 | 4.30 | 6.30 |
| **C-780-1-1/4** | 1 1/4 | 8,000 | 1 3/8 | 5 | 2 | 3 | 1 1/2 | 2 | 3 | 8.10 | 10.20 |
| **C-780-1-1/2** | 1 1/2 | 11,600 | 1 5/8 | 5 1/2 | 2 1/2 | 4 | 1 3/4 | 2 1/2 | 3 | 15.60 | 19.00 |
| **C-780-1-3/4** | 1 3/4 | 15,700 | 1 7/8 | 7 3/4 | 2 3/4 | 5 | 2 | 2 3/4 | 3 3/4 | 18.70 | 24.20 |
| **C-780-2** | 2 | 20,700 | 2 1/4 | 8 1/4 | N/A | 5 | 2 3/8 | 3 1/4 | 3 3/4 | — | 30.60 |
| **C-780-2-1/4** | 2 1/4 | 27,200 | 2 1/2 | 9 3/4 | N/A | 6 1/4 | 2 5/8 | 3 1/2 | 3 3/4 | — | 36.80 |
| **C-780-2-1/2** | 2 1/2 | 33,500 | 2 1/2 | 9 3/4 | N/A | 6 1/4 | 2 7/8 | 3 3/4 | 3 3/4 | — | 39.70 |
| **C-780-2-3/4** | 2 3/4 | 41,580 | 3 | 9 3/4 | N/A | 5 3/4 | 3 1/8 | 4 | 3 3/4 | — | 39.70 |
| **C-780-3** | 3 | 50,580 | 3 1/4 | 10 1/4 | N/A | 6 1/4 | 3 3/8 | 4 | 3 3/4 | — | 49.00 |
| **C-780-3-1/4** | 3 1/4 | 71,280 | 3 1/2 | 11 1/2 | N/A | 7 | 3 5/8 | 4 1/2 | 4 1/4 | — | 67.60 |
| **C-780-3-1/2** | 3 1/2 | 71,280 | 3 3/4 | 12 | N/A | 7 1/2 | 3 7/8 | 4 1/2 | 4 1/4 | — | 79.30 |



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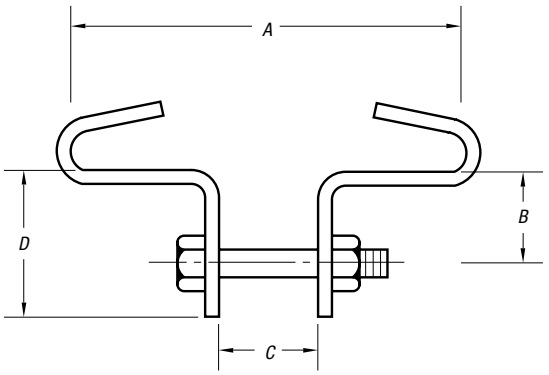
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# C-755 — Beam Clamp

Designed to attach to the bottom of flanged beams. Normally used with the E-157 Eye Rod or E-120-A Eye Nut.




C-755

## Specifications

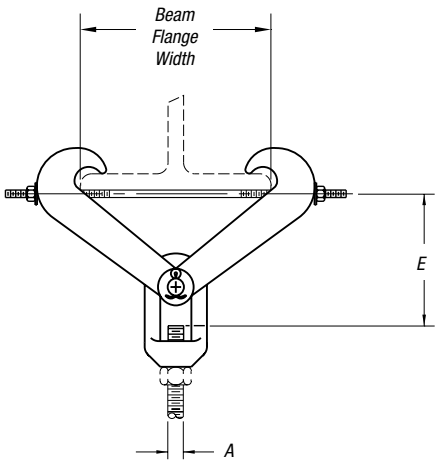
- Material: Carbon Steel
- Compliance: Federal Specification A-A-1192A Type 21, MSS-SP-69 Type 21
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG"), Thermoplastic (add suffix "-TP")
- Ordering: Specify clamp size, flange width, flange thickness, catalog number and finish.

| CAT. NO. | CLAMP SIZE | MAX. LOAD (LBS.) | DIMENSIONS (IN.) | | | BOLT SIZE (IN.) |
|---|---|---|---|---|---|---|
| | | | B | C | D | |
| C-755-1 | 1 | 500 | ⅞ | ½ | 1½ | ⅜ |
| C-755-2 | 2 | 700 | 1⅛ | ⅝ | 1¾ | ½ |
| C-755-3 | 3 | 800 | 1¼ | ⅝ | 2 | ½ |
| C-755-4 | 4 | 1,000 | 1⅜ | ¾ | 2⅜ | ⅝ |
| C-755-5 | 5 | 3,000 | 1⅜ | ⅞ | 2⅝ | ¾ |
| C-755-6 | 6 | 3,000 | 2 | 1 | 3 | ⅞ |
| C-755-7 | 7 | 5,000 | 2⅛ | 1⅛ | 4⅛ | 1 |

| CAT. NO. | CLAMP SIZE | WEIGHT EACH (LBS.) BEAM WIDTH — DIMENSION "A" | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 |
| C-755-1 | 1 | .52 | .62 | .78 | .88 | .95 | — | — | — |
| C-755-2 | 2 | .74 | .82 | 1.09 | 1.21 | 1.31 | 1.39 | — | — |
| C-755-3 | 3 | 1.26 | 1.49 | 1.89 | 2.12 | 2.29 | 2.45 | 2.69 | — |
| C-755-4 | 4 | — | 2.32 | 2.85 | 3.18 | 3.39 | 3.60 | 3.92 | — |
| C-755-5 | 5 | — | 3.40 | 4.08 | 4.52 | 4.80 | 5.10 | 5.51 | 6.23 |
| C-755-6 | 6 | — | — | 6.00 | 6.45 | 7.00 | 7.40 | 7.90 | 8.80 |
| C-755-7 | 7 | — | — | — | 11.95 | 12.75 | 13.55 | 14.35 | 15.95 |

# M-732-H — Steel Beam Clamp with Weldless Eyenut

The M-732-H beam clamp with eyenut is used for support where some movement is expected and welding to the structure is prohibited. The clamping effect is produced by the "ice-tong" action of the arms and is locked in place by the through bolt located just under the beam flange.




M-732-H

## Specifications

- Material: Carbon Steel with Forged Steel Eyenut
- Compliance: Federal Specification A-A-1192A Type 28, MSS-SP-69 Type 28 and BSPSS-BS3974
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify catalog number, rod size, clamp number and finish.

| CAT. NO. | CLAMP SIZE | MAX. LOAD (LBS.) | MAX. ROD SIZE A (IN.) | BEAM WIDTH | BODY SIZE (IN.) | MAX. FLANGE THICKNESS (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|
| M-732-H-1 | 1 | 2,710 | ¾ | 3–8 | 25/32 | .6 | 5.5 |
| M-732-H-2 | 2 | 4,960 | 1 | 3–8 | 25/32 | .6 | 5.5 |
| M-732-H-3 | 3 | 4,960 | 1 | 4–11 | 27/32 | .6 | 9.0 |
| M-732-H-4 | 4 | 4,960 | 1 | 4–12 | 29/32 | 1.03 | 29.0 |
| M-732-H-5 | 5 | 4,960 | 1 | 11–15 | 1/64 | 1.03 | 33.3 |
| M-732-H-6 | 6 | 11,500 | 1½ | 4–12 | 29/32 | 1.03 | 29.0 |
| M-732-H-7 | 7 | 11,500 | 1½ | 11–15 | 1/64 | 1.03 | 33.3 |
| M-732-H-8 | 8 | 11,500 | 2 | 4–12 | 29/32 | 1.03 | 29.0 |

| CAT. NO. | CLAMP SIZE | BODY SIZE (IN.) | DIMENSIONS (IN.) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| M-732-H-1 | 1 | 25/32 | 5 3/16 | 5 1/8 | 5 | 4 13/16 | 4 3/8 | 3 15/16 | — | — | — | — | — | — | — |
| M-732-H-2 | 2 | 25/32 | 5 3/16 | 5 1/8 | 5 | 4 13/16 | 4 3/8 | 3 15/16 | — | — | — | — | — | — | — |
| M-732-H-3 | 3 | 27/32 | — | 8 1/4 | 8 1/8 | 8 1/8 | 7 1/8 | 7 1/8 | 7 3/8 | 7 | 6½ | — | — | — | — |
| M-732-H-4 | 4 | 27/32 | — | 8 3/8 | 8 3/8 | 8½ | 8 3/8 | 8 1/8 | 7 1/8 | 7 3/8 | 7 | 6 7/8 | — | — | — |
| M-732-H-5 | 5 | 1/64 | — | — | — | — | — | — | — | — | 9½ | 9¼ | 8 7/8 | 8 3/8 | 7 7/8 |
| M-732-H-6 | 6 | 3/8 | — | 8 3/8 | 8 3/8 | 8½ | 8 3/8 | 8 1/8 | 7 1/8 | 7 3/8 | 7 | 6 7/8 | — | — | — |
| M-732-H-7 | 7 | 1/64 | — | — | — | — | — | — | — | — | 9 7/8 | 9½ | 9 1/8 | 8 7/8 | 8 1/8 |
| M-732-H-8 | 8 | 3/8 | — | 11 3/8 | 11½ | 11½ | 11 3/8 | 11 1/8 | 10 7/8 | 10 7/8 | 10½ | 10 | — | — | — |



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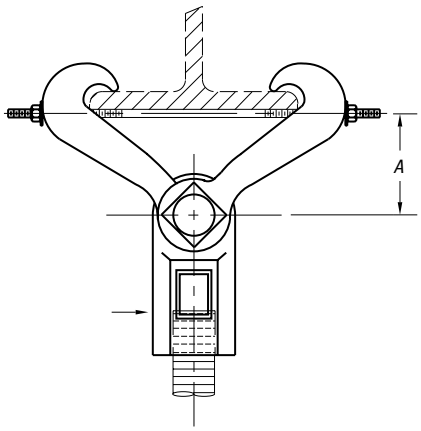
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## Pipe Straps, Conduit Clamps and Hangers

# M-732-EXT — Adjustable Beam Clamp

Designed to attach to the bottom of flanged beams without requiring welding. Normally used with the M-129 Extension Piece (not furnished) up to a maximum ⅞" (M20) rod diameter. Loading is achieved through the clamp jaws while locking is accomplished by tightening the through-bolt located directly below the flange. Maximum flange thickness is .60 inches.




*M-732-EXT*

### Specifications

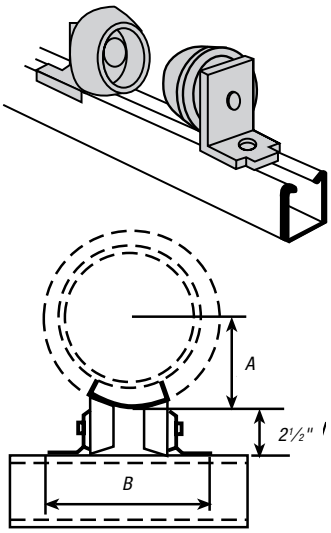
- Material: Malleable Iron
- Compliance: Federal Specification A-A-1192A Type 30, MSS-SP-69 Type 30 when used with a Figure 157
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify catalog number and finish. Order M-129 separately if required.

| CAT. NO. | MAX. ROD SIZE (IN.) | MAX. LOAD (LBS.) | ROD TAKE OUT BEAM FLANGE WIDTH — B (IN.) 2C 60 | 3 76 | 4 101 | 5 127 | 6 152 | 7 177 | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|---|---|
| **M-732-EXT-3/8** | ⅜ | 610 | 3½ | 3 7/16 | 3 5/16 | 2 15/16 | 2 9/16 | 1⅞ | 1.91 |
| **M-732-EXT-1/2** | ½ | 1,130 | 3½ | 3 7/16 | 3 5/16 | 2 15/16 | 2 9/16 | 1⅞ | 2.11 |
| **M-732-EXT-5/8** | ⅝ | 1,365 | 3½ | 3 7/16 | 3 5/16 | 2 15/16 | 2 9/16 | 1⅞ | 2.15 |
| **M-732-EXT-3/4** | ¾ | 1,365 | 3½ | 3 7/16 | 3 5/16 | 2 15/16 | 2 9/16 | 1⅞ | 2.36 |
| **M-732-EXT-7/8** | ⅞ | 1,365 | 3½ | 3 7/16 | 3 5/16 | 2 15/16 | 2 9/16 | 1⅞ | 2.49 |

# Pipe Straps, Conduit Clamps and Hangers

## C-728 — Pipe Roller (Pair)

- Cast aluminum rollers, steel brackets
- Designed for standard saddles
- Order separately for each pair of rollers: Two ½" x 5/16" hex head cap screws, two ½" channel nuts
- Space to fit O.D. of pipe and wrapping
- Adjustable for radius up to 8"



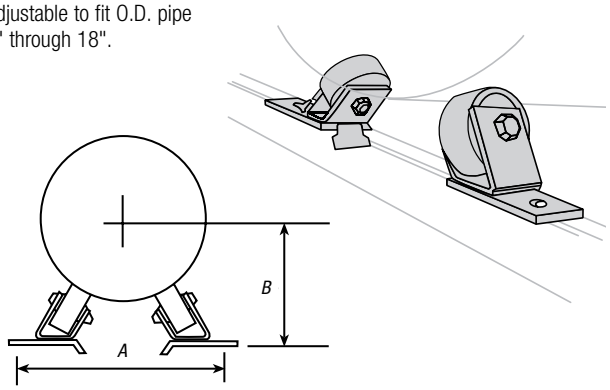

| CAT. NO. | A MAX OS RADIUS (IN.) | B (IN.) | DESIGN LOAD (LBS.) | STD. CTN. |
|---|---|---|---|---|
| C728 | 3⅜ | 6¾ | 2,350 | 5 pair (10 pieces) |
| | 4⅝ | 7½ | 2,350 | 5 pair (10 pieces) |
| | 6⅜ | 8½ | 2,350 | 5 pair (10 pieces) |
| | 8½ | 9⁹⁄₁₆ | 2,350 | 5 pair (10 pieces) |

## C728H — Pipe Roller Assembly (Pair)

Cast aluminum roller, steel brackets. Order separately for each pair of rollers:

Two ½" x 5/16" hex head cap screws
Two ½" channel nuts

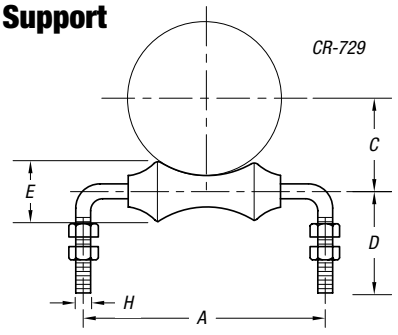
Adjustable to fit O.D. pipe 6" through 18".




| CAT. NO. | PIPE SIZE (IN.) | A (IN.) | B (IN.) | DESIGN LOAD (LBS.) | STD. CTN. |
|---|---|---|---|---|---|
| C728H | 6 | 10¹³⁄₁₆ | 6⁹⁄₁₆ | 3,920 | 5 pair (10 pieces) |
| | 8 | 11¹³⁄₁₆ | 7⅜ | 3,920 | 5 pair (10 pieces) |
| | 10 | 12⅞ | 8⁵⁄₁₆ | 3,920 | 5 pair (10 pieces) |
| | 12 | 13⅞ | 9⁵⁄₁₆ | 3,920 | 5 pair (10 pieces) |
| | 14 | 14½ | 9¾ | 3,920 | 5 pair (10 pieces) |
| | 16 | 15½ | 10⅝ | 3,920 | 5 pair (10 pieces) |
| | 18 | 16½ | 11⁷⁄₁₆ | 3,920 | 5 pair (10 pieces) |

## CR-729 — Roller Support

Used on steam or hot water systems where pipe is to be supported in tunnels, trenches, structural brackets and frames. Adjustment is made by raising and lowering the top nut on the legs and locked into position by tightening the lower nut.




| CR-729 PIPE SIZE OF ROLL | C-789 1" COV. 25 | C-789A 1½" COV. 38 | C-789B 2" COV. 51 | C-789C 2½" COV. 64 | C-789D 3" COV. 76 | C-789E 4" COV. 100 |
|---|---|---|---|---|---|---|
| 4 | 2½–3 | 2–2½ | — | — | — | — |
| 5 | 3½ | — | — | — | — | — |
| 6 | 4–5 | 3–3½ | 2–2½ | — | — | — |
| 7 | 6 | 4–5 | 3–4 | 2–2½ | 2–2½ | — |
| 8 | 8 | 6 | 5 | 3-3½ | 3–3½ | — |
| 10 | — | 8 | 6 | 4–5 | 4–5 | — |
| 12 | 10 | 10 | 8 | 6 | 6–8 | 4–6 |
| 14 | 12 | 12 | 10 | 8 | — | — |
| 16 | 14 | 14 | 12–14 | 10 | 8 | 8 |

### Specifications

- Material: Steel Axle, Cast Iron Roll
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")

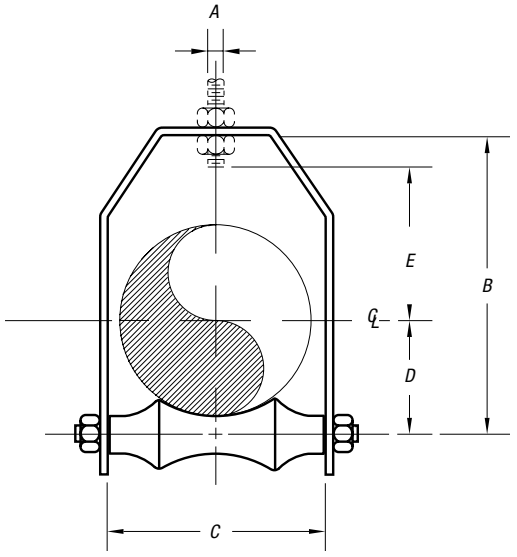
| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | DIMENSIONS (IN.) A | C | D | E | H | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|---|
| CR-729-2 | 2 | 300 | 4½ | 1⅝ | 3¾ | 1¹³⁄₁₆ | ⅜ | .79 |
| CR-729-2-1/2 | 2½ | 600 | 5 | 1⁵⁄₁₆ | 4½ | 1⅜ | ½ | 1.44 |
| CR-729-3 | 3 | 600 | 5⅞ | 2¼ | 4½ | 1⁷⁄₁₆ | ½ | 1.62 |
| CR-729-3-1/2 | 3½ | 600 | 7 | 2⅝ | 4½ | 1⅝ | ½ | 1.64 |
| CR-729-4 | 4 | 700 | 7 | 2¹³⁄₁₆ | 4½ | 1¹¹⁄₁₆ | ½ | 1.82 |
| CR-729-5 | 5 | 700 | 8½ | 3⁷⁄₁₆ | 4½ | 2 | ⅝ | 2.90 |
| CR-729-6 | 6 | 1,000 | 10 | 4¹⁄₁₆ | 4½ | 2⅜ | ¾ | 4.66 |
| CR-729-8 | 8 | 1,300 | 12 | 5⅛ | 5¼ | 2¾ | ⅞ | 7.29 |
| CR-729-10 | 10 | 1,700 | 14 | 6¼ | 5½ | 3⅜ | ⅞ | 10.23 |
| CR-729-12 | 12 | 2,300 | 16 | 7⁷⁄₁₆ | 6 | 3¹⁵⁄₁₆ | ⅞ | 12.27 |
| CR-729-14 | 14 | 3,075 | 17 | 8¾ | 7 | 4¾ | 1 | 21.39 |
| CR-729-16 | 16 | 3,075 | 19 | 9⁷⁄₁₆ | 8 | 5¹⁄₁₆ | 1 | 27.76 |



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# C-729 — Harvard Roll Hanger

Designed to support piping lines from above, allowing for vertical adjustment and axial movement in the piping. The lower nut (not furnished) adjusts the pipe line to the proper elevation. The top nut (not furnished) prevents loosening due to vibration and must be tightened securely to assure proper hanger performance.




C-729

## Specifications

- Material: Carbon Steel frame with a Cast Iron Roll. Do not exceed 450° F/232° C at the contact point to the roll.
- Compliance: A-A-1192A Type 43 and MSS-SP-69 Type 43
- Finish: Black (add suffix "-B"), Electro-Galvanized (add suffix "-HDG")

For pipe with insulation and a pipe covering protection saddle the C-729 will have to be oversized to suit. Please see the table below showing the correct sizing for insulated pipe.

- Ordering: Specify pipe size, catalog number and finish.

| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | DIMENSIONS (IN.) | | | | | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|---|
| | | | ROD SIZE A | B | C | D | E | |
| C-729-2 | 2 | 150 | ½ | 4¼ | 2¾ | 1⅝ | 2⅝ | 1.60 |
| C-729-2-1/2 | 2½ | 225 | ½ | 4⅞ | 3¼ | 2 | 2⅞ | 2.00 |
| C-729-3 | 3 | 310 | ½ | 6¼ | 3⅞ | 2¼ | 3⅛ | 2.30 |
| C-729-3-1/2 | 3½ | 390 | ½ | 6⅞ | 4½ | 2⅝ | 3½ | 2.50 |
| C-729-4 | 4 | 475 | ⅝ | 7½ | 4⅞ | 2⅞ | 3⅝ | 4.00 |
| C-729-5 | 5 | 685 | ⅝ | 8⅜ | 6⅜ | 3½ | 4½ | 5.30 |
| C-729-6 | 6 | 780 | ¾ | 9⅞ | 7⅝ | 4 | 5 | 7.00 |
| C-729-7 | 7 | 780 | ¾ | 11⅛ | 8½ | 4¾ | 5¼ | 9.40 |
| C-729-8 | 8 | 780 | ⅞ | 12⅝ | 9½ | 5⅛ | 6⅛ | 12.30 |
| C-729-10 | 10 | 965 | ⅞ | 15 | 11¼ | 6¼ | 7¼ | 19.30 |
| C-729-12 | 12 | 965 | ⅞ | 17⅛ | 13½ | 7½ | 8⅜ | 23.10 |
| C-729-14 | 14 | 1,200 | 1 | 18⅜ | 14⅝ | 8⅜ | 8¾ | 35.50 |
| C-729-16 | 16 | 1,400 | 1 | 20½ | 17¼ | 9½ | 9¾ | 46.50 |
| C-729-18 | 18 | 1,400 | 1 | 23⅛ | 19 | 10½ | 11½ | 57.00 |
| C-729-20 | 20 | 1,600 | 1¼ | 24½ | 21 | 11⅝ | 12¼ | 75.90 |
| C-729-24 | 24 | 1,800 | 1½ | 29⅞ | 24¾ | 14 | 15¾ | 119.30 |

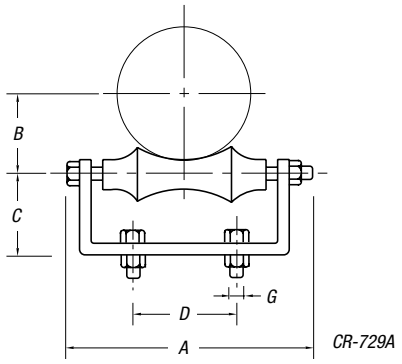
*Standard Finish – GoldGalv®, unless otherwise stated.*

| C-729 PIPE SIZE OF ROLL | C-789 1" COV. 25 | C-789A 1½" COV. 38 | C-789B 2" COV. 51 | C-789C 2½" COV. 64 | C-789D 3" COV. 76 | C-789E 4" COV. 100 |
|---|---|---|---|---|---|---|
| 2½ | ¾ | — | — | — | — | — |
| 3 | 1–1½ | — | — | — | — | — |
| 4 | 2–2½ | 1–1½ | — | — | — | — |
| 5 | 3–3½ | 2–2½ | ¾–1½ | — | — | — |
| 6 | 4 | 3–3½ | 2–2½ | ¾–1 | — | — |
| 7 | 5 | 4 | 3–3½ | 1¼–1½ | 2 | — |
| 8 | 6 | 5 | 4 | 2–3 | 2½ | — |
| 10 | 8 | 6 | 5–6 | 3½–5 | 3–4 | — |
| 12 | 10 | 8 | 8 | 6 | 5–6 | — |
| 14 | 12 | 10 | — | 8 | 5–6 | — |
| 16 | 14 | 12 | 10 | 10 | 8 | 8 |
| 18 | — | 14 | 14 | 12 | 12 | 10 |
| 20 | — | 16 | 16 | 14 | 14 | 12 |
| 24 | — | 20 | 20 | 18 | 18 | 16 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

## CR-729A — Roller Chair

Designed for longitudinal movement of pipe where vertical adjustment is not required. Although two bolts are supplied for installation, the chair can be alternatively welded in position.



CR-729A

### Specifications

- Material: Carbon Steel Chair and Axle with Cast Iron Pipe Roll. Use a Figure 17 when a Cast Iron Chair is required. Do not exceed 450° F/232° C at the contact point to the roll.
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG").

For pipe with insulation and a pipe covering protection saddle, the CR-729A will have to be oversized to suit.

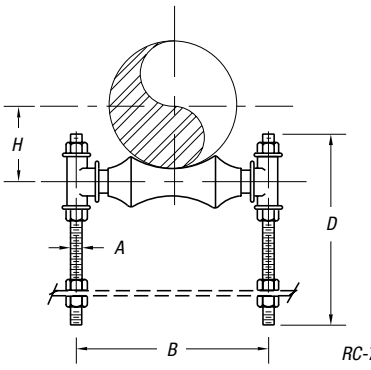
Please see the Table for the RC-729A which shows the correct sizing for insulated pipe.

- Ordering: Specify pipe size, catalog number and finish.

| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | DIMENSIONS (IN.) A | B | C | D | BOLT SIZE G (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|---|
| CR-729-2A | 2 | 300 | 4⅞ | 1⅝ | 1½ | 2 | ⅜ x 1½ | 1.10 |
| CR-729-2-1/2A | 2½ | 600 | 4⅞ | 2 | 1⅝ | 2 | ⅜ x 1½ | 1.40 |
| CR-729-3A | 3 | 600 | 6 | 2¼ | 1¾ | 2 | ⅜ x 1½ | 1.60 |
| CR-729-3-1/2A | 3½ | 600 | 6½ | 2⅝ | 2⅛ | 2 | ⅜ x 1½ | 2.60 |
| CR-729-4A | 4 | 700 | 7 | 2⅞ | 2⅜ | 2½ | ⅜ x 1½ | 2.90 |
| CR-729-5A | 5 | 700 | 7⅝ | 3½ | 2½ | 3 | ½ x 2 | 3.90 |
| CR-729-6A | 6 | 1,000 | 9¾ | 4 | 2¾ | 3¼ | ½ x 2 | 6.00 |
| CR-729-8A | 8 | 1,300 | 11⅞ | 5⅛ | 3 | 4½ | ⅝ x 2 | 9.00 |
| CR-729-10A | 10 | 1,700 | 14½ | 6⅜ | 3⅝ | 5 | ¾ x 2½ | 13.80 |
| CR-729-12A | 12 | 2,300 | 16¼ | 7½ | 4⅛ | 6 | ¾ x 2½ | 18.90 |
| CR-729-14A | 14 | 3,100 | 18½ | 8⅜ | 4¾ | 6½ | ¾ x 2½ | 28.10 |
| CR-729-16A | 16 | 3,900 | 20 | 9⅜ | 5⅜ | 10 | ⅞ x 3 | 34.90 |
| CR-729-18A | 18 | 4,200 | 22¾ | 10½ | 6 | 9¼ | ¾ x 2½ | 44.40 |
| CR-729-20A | 20 | 4,500 | 25⅝ | 11⅝ | 6½ | 10¼ | ¾ x 2½ | 56.30 |
| CR-729-24 | 24 | 6,000 | 30 | 14 | 7⅞ | 12¼ | ⅞ x 3½ | 87.50 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

## RC-729 — Adjustable Roll Support



RC-729

### Specifications

- Material: Cast Iron Pipe Roll and Sockets, Carbon Steel Axle, Continuous Thread Rods and Hex Nuts. Do not exceed 450° F/232° C at the contact point to the roll.
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG").

For pipe with insulation and a pipe covering protection saddle, the RC-729 will have to be oversized to suit.

Please see the table for the RC-729A which shows the correct sizing for insulated pipe.

- Ordering: Specify pipe size, catalog number and finish.

| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | DIMENSIONS (IN.) A | B | D | H | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|
| RC-729-1-1/4 | 1¼ | 300 | ⅜ | 3⅜ | 7¼ | 1¼ | 1.08 |
| RC-729-1-1/2 | 1½ | 300 | ⅜ | 3⅝ | 7¼ | 1⅜ | 1.11 |
| RC-729-2 | 2 | 300 | ⅜ | 4⅛ | 7¼ | 1⅝ | 1.65 |
| RC-729-2-1/2 | 2½ | 600 | ½ | 5½ | 8 | 2 | 2.72 |
| RC-729-3 | 3 | 600 | ½ | 6⅛ | 8 | 2¼ | 2.72 |
| RC-729-3-1/2 | 3½ | 700 | ½ | 7⅛ | 8 | 2⅝ | 2.72 |
| RC-729-4 | 4 | 700 | ⅝ | 7⅛ | 8½ | 2⅞ | 3.91 |
| RC-729-5 | 5 | 700 | ⅝ | 8⅜ | 9 | 3½ | 4.63 |
| RC-729-6 | 6 | 1,000 | ¾ | 9⅜ | 9 | 4 | 7.07 |
| RC-729-8 | 8 | 1,300 | ⅞ | 12 | 10 | 5⅛ | 11.40 |
| RC-729-10 | 10 | 1,700 | ⅞ | 14⅛ | 11 | 6⅜ | 13.70 |
| RC-729-12 | 12 | 2,300 | ⅞ | 16⅛ | 12 | 7½ | 15.90 |
| RC-729-14 | 14 | 3,075 | 1 | 17¾ | 12 | 8⅜ | 28.70 |
| RC-729-16 | 16 | 3,970 | 1 | 19¾ | 18 | 9½ | 42.50 |
| RC-729-18 | 18 | 4,200 | 1 | 21⅞ | 18 | 10½ | 46.60 |
| RC-729-20 | 20 | 4,550 | 1¼ | 24¼ | 18 | 11⅝ | 66.20 |
| RC-729-24 | 24 | 6,160 | 1½ | 28⅝ | 24 | 14 | 102.50 |
| RC-729-30 | 30 | 7,290 | 1½ | 35½ | 24 | 17½ | 186.80 |

*Standard Finish – GoldGalv®, unless otherwise stated.*



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# RC-729A — Adjustable Roll Support

Designed for longitudinal movement of pipe where vertical adjustment is required. Although primarily used for support of the pipe, this component may also be placed over the pipe to act as a guide.

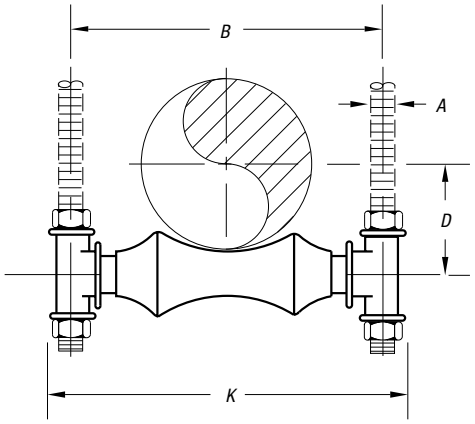
## Specifications

- Material: Cast Iron Pipe Roll and Sockets with a Carbon Steel Axle. Do not exceed 450° F/232° C at the contact point to the roll.
- Compliance: A-A-1192A Type 42, MSS SP-69 Type 41.
- Finish: Black (add suffix "-B"). Electro-Galvanized (add suffix "-HDG").

For pipe with insulation and a pipe covering protection saddle, the RC-729A will have to be oversized to suit.

Please see the table below which shows the correct sizing for insulated pipe.

- Ordering: Specify pipe size, catalog number and finish.




*RC-729A*

| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | DIMENSIONS (IN.) ROD SIZE A | B | D | K | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|
| **RC-729A-1** | 1 | 600 | ⅜ | 3 | 1 | 4⅛ | .45 |
| **RC-729A-1-1/4** | 1¼ | 600 | ⅜ | 3⅜ | 1¼ | 4½ | .48 |
| **RC-729A-1-1/2** | 1½ | 600 | ⅜ | 3⅜ | 1⅜ | 4¾ | .51 |
| **RC-729A-2** | 2 | 600 | ⅜ | 4⅛ | 1⅝ | 5¼ | .57 |
| **RC-729A-2-1/2** | 2½ | 600 | ½ | 5½ | 2 | 7 | 1.48 |
| **RC-729A-3** | 3 | 700 | ½ | 6⅛ | 2¼ | 7⅜ | 1.48 |
| **RC-729A-4** | 4 | 700 | ⅝ | 7⅛ | 2⅞ | 8⅝ | 1.78 |
| **RC-729A-5** | 5 | 700 | ⅝ | 8⅜ | 3½ | 9⅞ | 2.42 |
| **RC-729A-6** | 6 | 1,000 | ¾ | 9⅝ | 4 | 11⅜ | 3.96 |
| **RC-729A-7** | 7 | 1,200 | ¾ | 10¾ | 4¾ | 12½ | 5.99 |
| **RC-729A-8** | 8 | 1,300 | ⅞ | 12 | 5⅛ | 14 | 6.43 |
| **RC-729A-10** | 10 | 1,700 | ⅞ | 14⅛ | 6¼ | 16 | 8.45 |
| **RC-729A-12** | 12 | 2,400 | ⅞ | 16⅛ | 7½ | 18 | 10.20 |
| **RC-729A-14** | 14 | 3,100 | 1 | 17¾ | 8⅜ | 20 | 20.90 |
| **RC-729A-16** | 16 | 3,900 | 1 | 19⅞ | 9½ | 22⅛ | 26.07 |
| **RC-729A-18** | 18 | 4,200 | 1 | 22⅛ | 10½ | 24⅜ | 36.59 |
| **RC-729A-20** | 20 | 4,500 | 1¼ | 24⅛ | 11⅝ | 26⅝ | 39.00 |
| **RC-729A-24** | 24 | 6,100 | 1½ | 28⅞ | 14 | 32⅛ | 66.90 |
| **RC-729A-30** | 30 | 7,200 | 1½ | 35½ | 17½ | 39⅞ | 134.00 |

**PIPE SIZE OF COVERING PROTECTION SADDLE TO BE USED WITH RC-729A**

| RC-729A PIPE SIZE OF ROLL | C-789 1" COV. 25 | C-789A 1½" COV. 38 | C-789B 2" COV. 51 | C-789C 2½" COV. 64 | C-789D 3" COV. 76 | C-789E 4" COV. 100 |
|---|---|---|---|---|---|---|
| 2½ | ¾–1 | — | — | — | — | — |
| 3 | 1¼–1½ | ¾–1 | — | — | — | — |
| 4 | 2½–3 | 1½ | ¾–1 | — | — | — |
| 5 | 3½ | 2–2½ | 1¼–1½ | ¾–1 | — | — |
| 6 | 4–5 | 3–3½ | 2–2½ | 1¼–1½ | — | — |
| 7 | 6 | 4–5 | 3–4 | 2–2½ | 2–2½ | — |
| 8 | — | 6 | 5 | 3–3½ | 3–3½ | — |
| 10 | 8 | 8 | 6 | 4–5 | 4–5 | — |
| 12 | 10 | 10 | 8 | 6 | 6–8 | 4–6 |
| 14 | 12 | 12 | 10 | 8 | — | — |
| 16 | 14 | 14 | 12–14 | 10 | 10 | 8 |
| 18 | 16 | 16 | 16 | 12–14 | 12–14 | 10 |
| 20 | 18 | 18 | — | 16 | — | 12 |
| 24 | 20 | 20 | 18–20 | 18–20 | 16–20 | 14–18 |
| 30 | 24 | 24 | 24 | 24 | 24 | 20–24 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

# S-730-C — Chair and Roll

Designed for longitudinal movement of pipe where vertical adjustment is not required. Because the chair is made of steel, it can be either welded or bolted in position.

## Specifications

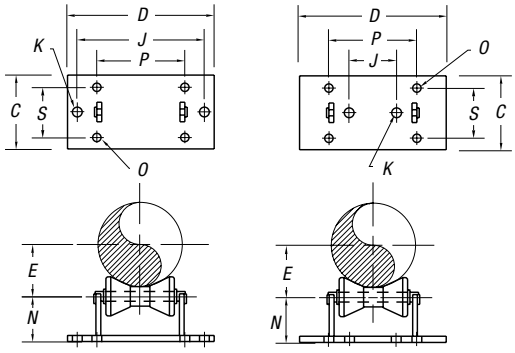
- Material: Carbon Steel Chair and Axle with Cast Iron Pipe Roll.

  Use a Figure 17 when a Cast Iron Chair is required.

  Do not exceed 450° F/232° C at the contact point to the roll.
- Compliance: Federal Specification A-A-1192A Type 44, MSS-SP-69 Type 44.
- Finish: Black (add suffix "-B"). Electro-Galvanized (add suffix "-HDG").

  For pipe with insulation and a pipe covering protection saddle, the S-730-C will have to be oversized to suit.

  Please see the Table below showing the correct sizing for insulated pipe.
- Ordering: Specify chair number, catalog number and finish.




Chair No. 1A & 1 — Chair No. 2 thru 6

S-730-C

| CHAIR NO. | BARE PIPE SIZE | C-789 1" COV. 25 | C-789A 1½" COV. 38 | C-789B 2" COV. 51 | C-789C 2½" COV. 64 | C-789D 3" COV. 76 | C-789E 4" COV. 102 |
|---|---|---|---|---|---|---|---|
| 1 25/32 | 2 | — | — | — | — | — | — |
| — | 2½ | ¾–3 | ¾–2½ | ¾–1¾ | — | — | — |
| — | 3 | 20–80 | 20–65 | 20–40 | — | — | — |
| — | 3½ | — | — | — | — | — | — |
| 1 | 4 | 4–6 | 3–5 | 2–4 | ¾–1½ | — | — |
| — | 5 | 100–150 | 80–125 | 50–100 | 20–40 | — | — |
| — | 6 | — | — | — | — | — | — |
| 2 | 8 | 8 | 6–8 | 5–8 | 2–5 | 2–6 | 4–5 |
| — | 10 | 200 | 150–200 | 125–200 | 50–125 | 50–150 | 100–125 |
| 3 | 12 | 10–12 | 10–12 | 10–12 | 6–8 | 8 | 6–8 |
| — | 14 | 250–300 | 250–300 | 250–300 | 150–200 | 200 | 150–200 |
| 4 | 16 | 14–18 | 14–18 | 14–18 | 10–16 | 10–14 | 10–12 |
| — | 18 | 350–450 | 350–450 | 350–450 | 250–400 | 250–350 | 250–300 |
| — | 20 | — | — | — | — | — | — |
| 5 | 24 | 20 | 20 | 18–20 | 18–20 | 16–18 | 14–18 |
| 5 | 600 | 500 | 500 | 450–500 | 450–500 | 400–450 | 350–450 |
| 6 | 30 | 24 | 24 | 24 | 24 | 20–24 | 20–24 |
| 6 | 750 | 600 | 600 | 600 | 600 | 500–600 | 500–600 |
| 7 | 36 | 30 | 30 | 30 | 30 | 30 | 28 |
| — | 900 | 750 | 750 | 750 | 750 | 750 | 700 |
| 7 | 42 | 40 | 36 | 36 | 36 | 36 | 32 |
| — | 1,050 | 1,000 | 900 | 900 | 900 | 900 | 800 |

| CAT. NO. | CHAIR NO. | MAX. LOAD (LBS.) | BARE PIPE SIZE (IN.) | DIMENSIONS (IN.) C | D | E | J | K | M | N | O | P | S | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **S-730-C-1A** | 1 25/32 | 390 | 2<br>2½<br>3<br>3½ | 6 | 8½ | 1½<br>1¾<br>2⅛<br>2⅝ | 6½ | 1 | ¼ | 2 | 47/64 | 3½ | 4⅛ | 7.0 |
| **S-730-C-1** | 1 | 950 | 4<br>5<br>6 | 6 | 10⅛ | 2¾<br>3⅜<br>3⅞ | 8 | 1 | ¼ | 2⅜ | 47/64 | 4¾ | 4¾ | 10.5 |
| **S-730-C-2** | 2 | 2,100 | 8<br>10 | 7 | 9 | 5⅛<br>6¼ | 4 | 1 | ⅜ | 3¾ | 11/16 | 7 | 5 | 16.5 |
| **S-730-C-3** | 3 | 3,075 | 12<br>14 | 8 | 11 | 7⅜<br>8 | 5¾ | 1 | ⅜ | 4¾ | 11/16 | 9 | 6 | 26.8 |
| **S-730-C-4** | 4 | 4,980 | 16<br>18<br>20 | 9 | 12½ | 8⅜<br>10<br>11 | 6¾ | 1 | ½ | 4¾ | 13/16 | 10 | 6½ | 40.5 |
| **S-730-C-5** | 5 | 6,100 | 24 | 8⅞ | 13¾ | 13 | 7½ | 1 | ⅝ | 4⅞ | 13/16 | 11½ | 6¾ | 51.0 |
| **S-730-C-6** | 6 | 7,500 | 30 | 11 | 17¼ | 16¼ | 10 | 1 | ⅝ | 5⅝ | 13/16 | 14¾ | 8 | 89.8 |
| **S-730-C-7** | 7 | 12,000 | 36<br>42 | 12 | 20 | 20<br>23⅛ | 12 | 1 | 1 | 5⅞ | 11/16 | 17 | 9 | 145 |



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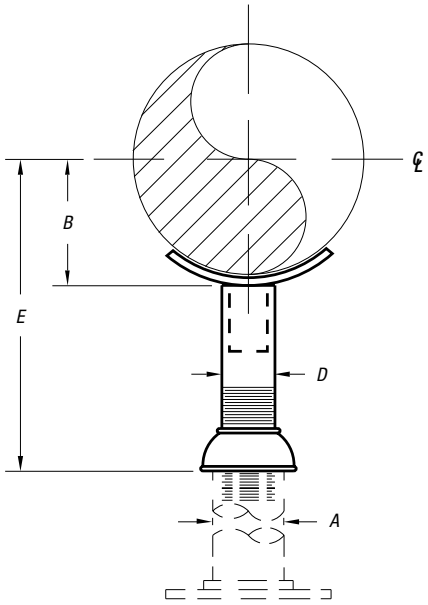
# C-786 — Adjustable Pipe Support

Used for support of piping from below without welding to the pipe, and consists of a steel saddle, nipple and pipe reducer. It connects to a threaded pipe standard and base.

Rated loads are for up to 650° F (343° C).

## Specifications

- Materials: Reducer is Cast Iron, Pipe saddle and nipple are carbon steel.
- Compliance: Federal Specification A-A-1192A Type 39, MSS-SP-69 Type 39.
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG").
- Ordering: Specify pipe size, catalog number and finish.




C-786

| CAT. NO. | PIPE SIZE (IN.) | MAX. LOAD (LBS.) | DIMENSIONS (IN.) A | B | D | MIN. E | MAX. E | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|---|
| C-786-1-1/2 | 1½ | 5,000 | 2½ | 1¼ | 1½ | 8 | 13 | 4.75 |
| C-786-2 | 2 | 5,000 | 2½ | 1½ | 1½ | 8 | 13 | 4.80 |
| C-786-2-1/2 | 2½ | 5,000 | 2½ | 1⅞ | 1½ | 8 | 13 | 4.90 |
| C-786-3 | 3 | 5,000 | 2½ | 2⅛ | 1½ | 8¼ | 13¼ | 5.00 |
| C-786-4 | 4 | 7,000 | 3 | 2⅝ | 2½ | 9⅛ | 14⅛ | 9.30 |
| C-786-5 | 5 | 7,000 | 3 | 3¼ | 2½ | 9⅝ | 14⅝ | 9.65 |
| C-786-6 | 6 | 7,000 | 3 | 3⅜ | 2½ | 10¼ | 15¼ | 11.70 |
| C-786-8 | 8 | 7,000 | 3 | 4⅞ | 2½ | 11¼ | 16¼ | 12.90 |
| C-786-10 | 10 | 7,000 | 3 | 5⅞ | 2½ | 12⅜ | 17⅜ | 14.10 |
| C-786-12 | 12 | 7,000 | 3 | 6⅞ | 2½ | 13⅜ | 18⅜ | 15.30 |
| C-786-14 | 14 | 7,000 | 4 | 7½ | 3 | 15½ | 20½ | 21.70 |
| C-786-16 | 16 | 7,000 | 4 | 8⅝ | 3 | 16⅝ | 21⅝ | 25.40 |
| C-786-18 | 18 | 7,000 | 6 | 9⅝ | 4 | 19⅛ | 24⅛ | 39.30 |
| C-786-20 | 20 | 7,000 | 6 | 10⅝ | 4 | 20⅛ | 25⅛ | 44.90 |
| C-786-24 | 24 | 10,000 | 6 | 12¾ | 4 | 22¼ | 27¼ | 54.30 |
| C-786-30 | 30 | 10,000 | 6 | 15¾ | 4 | 25¼ | 30¼ | 62.40 |
| C-786-36 | 36 | 10,000 | 6 | 18¾ | 4 | 28¼ | 33¼ | 70.20 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

## Pipe Straps, Conduit Clamps and Hangers

# C-789, C-789A, C789B, C-789C, C-789D, C-789E — Pipe Covering Protection Saddle

The C-789 saddles are used to protect the insulation against damage and keep heat loss to a minimum. They are designed for 1" to 5" of covering. All Saddles are 12" long with three tabs on each side for welding to pipe. Sizes 12" and larger have a welded-in center rib.

### Specifications

- Material: Carbon Steel (except C-789 and C-789-8 which are Chromium Molybdenum Steel).
- Compliance: Federal Specification A-A-1192A Type 39A or 39B, MSS-SP-69 Type 39A or 39B and BSPSS-BS3974.
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG").
- Ordering: Specify catalog number and pipe size.

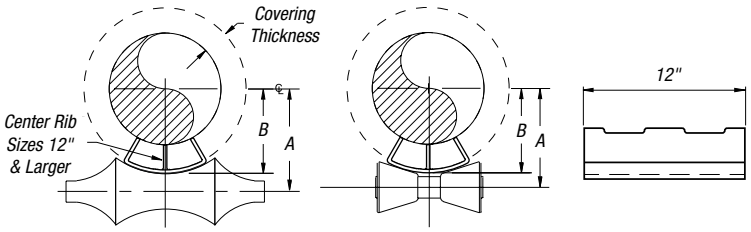



Figure 1 Figure 2

C-789

### Pipe Saddles and Pipe Shields

| CAT. NO. | PIPE SIZE (IN.) | MAX. COVERING THICKNESS (IN.) | ACTUAL COVERING THICKNESS (IN.) | MAX. LOAD (LBS.) | FIGURE 1 (IN.) ROLL SIZE | FIGURE 1 (IN.) A | FIGURE 1 (IN.) B | FIGURE 2 (IN.) ROLL SIZE | FIGURE 2 (IN.) A | FIGURE 2 (IN.) B | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C-789-3/4 | ¾ | 1 | 15/16 | 1,200 | 2½ | 2⅛ | 1⅝ | 2–3½ | 2 5/16 | 1⅝ | 1.15 |
| C-789A-3/4 | ¾ | 1½ | 1½ | 1,200 | 3 | 2⅝ | 2⅛ | 2–3½ | 2 11/16 | 2¼ | 2.10 |
| C-789B-3/4 | ¾ | 2 | 2 | 1,200 | 4 | 3¼ | 2⅝ | 2–3½ | 3⅜ | 2⅝ | 2.63 |
| C-789-1 | 1 | 1 | 1 1/16 | 1,200 | 2¼ | 2¾ | 1¾ | 2–3½ | 2 7/16 | 1¾ | 1.15 |
| C-789A-1 | 1 | 1½ | 1 9/16 | 1,200 | 3 | 2⅞ | 2⅜ | 2–3½ | 2 15/16 | 2⅜ | 2.10 |
| C-789B-1 | 1 | 2 | 2⅛ | 1,200 | 4 | 3⅜ | 2¾ | 2–3½ | 3½ | 2¾ | 2.63 |
| C-789-1-1/4 | 1¼ | 1 | ⅞ | 1,200 | 3 | 2½ | 2 | 2–3½ | 2 9/16 | 2 | 1.25 |
| C-789A-1-1/4 | 1¼ | 1½ | 1⅝ | 1,200 | 3½ | 3 | 2½ | 2–3½ | 3 3/16 | 2½ | 2.10 |
| C-789B-1-1/4 | 1¼ | 2 | 1 15/16 | 1,200 | 5 | 3⅝ | 3 1/16 | 2–3½ | 3 11/16 | 3 1/16 | 2.63 |
| C-789C-1-1/4 | 1¼ | 2½ | 2½ | 1,200 | 6 | 4¼ | 3½ | 4–6 | 4 1/16 | 3½ | 3.25 |
| C-789-1-1/2 | 1½ | 1 | 1 1/16 | 1,200 | 3 | 2½ | 2 | 2–3½ | 2 11/16 | 2 | 1.50 |
| C-789A-1-1/2 | 1½ | 1½ | 1 9/16 | 1,200 | 4 | 3⅛ | 2⅝ | 2–3½ | 3 5/16 | 2⅝ | 2.10 |
| C-789B-1-1/2 | 1½ | 2 | 2⅜ | 1,800 | 5 | 4 9/16 | 3⅜ | 2–3½ | 3¾ | 3⅜ | 3.10 |
| C-789C-1-1/2 | 1½ | 2½ | 2⅞ | 1,800 | 6 | 4⅝ | 3⅞ | 4–6 | 4 3/16 | 3⅞ | 3.75 |
| C-789-2 | 2 | 1 | 1 1/16 | 1,200 | 3½ | 2⅞ | 2⅜ | 2–3½ | 2 15/16 | 2⅜ | 1.63 |
| C-789A-2 | 2 | 1½ | 1 9/16 | 1,200 | 4 | 3 9/16 | 2⅝ | 2–3½ | 3 5/16 | 2⅝ | 2.10 |
| C-789B-2 | 2 | 2 | 2⅛ | 1,800 | 6 | 4¼ | 3½ | 4–6 | 3⅞ | 3½ | 3.12 |
| C-789C-2 | 2 | 2½ | 2⅝ | 1,800 | 7 | 4¾ | 4 | 4–6 | 4 13/16 | 4 | 3.63 |
| C-789D-2 | 2 | 3 | 3 1/16 | 1,800 | 7 | 5¼ | 4½ | 7–10 | 5 5/16 | 4½ | 4.40 |
| C-789-2-1/2 | 2½ | 1 | 1 1/16 | 1,200 | 4 | 3½ | 2⅞ | 2–3½ | 3 9/16 | 2⅞ | 1.75 |
| C-789A-2-1/2 | 2½ | 1½ | 1⅞ | 1,200 | 6 | 4½ | 3⅜ | 2–3½ | 3¾ | 3⅜ | 2.40 |
| C-789B-2-1/2 | 2½ | 2 | 2⅜ | 1,800 | 6 | 4⅝ | 3⅞ | 4–6 | 4 3/16 | 3⅞ | 3.12 |
| C-789C-2-1/2 | 2½ | 2½ | 2⅞ | 1,800 | 7 | 5 9/16 | 4⅜ | 7–10 | 5 1/16 | 4⅜ | 3.63 |
| C-789D-2-1/2 | 2½ | 3 | 3⅜ | 1,800 | 7 | 5⅝ | 4⅞ | 7–10 | 5 9/16 | 4⅞ | 4.40 |

*Standard Finish – GoldGalv®, unless otherwise stated.*



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# Pipe Straps, Conduit Clamps and Hangers



## Pipe Saddles and Pipe Shields *(Continued)*

| CAT. NO. | PIPE SIZE (IN.) | MAX. COVERING THICKNESS (IN.) | ACTUAL COVERING THICKNESS (IN.) | MAX. LOAD (LBS.) | FIGURE 1 (IN.) | | | FIGURE 2 (IN.) | | | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | ROLL SIZE | A | B | ROLL SIZE | A | B | |
| C-789-3 | 3 | 1 | 1 1/16 | 1,200 | 4 | 3 1/2 | 2 7/8 | 2–3 1/2 | 3 3/16 | 2 7/8 | 1.75 |
| C-789A-3 | 3 | 1 1/2 | 1 9/16 | 1,800 | 6 | 4 1/2 | 3 3/4 | 4–6 | 4 1/16 | 3 3/4 | 2.75 |
| C-789B-3 | 3 | 2 | 2 1/16 | 1,800 | 7 | 4 3/4 | 4 | 4–6 | 4 9/16 | 4 | 3.50 |
| C-789C-3 | 3 | 2 1/2 | 2 9/16 | 1,800 | 8 | 5 3/8 | 4 5/8 | 7–10 | 5 3/8 | 4 5/8 | 3.93 |
| C-789D-3 | 3 | 3 | 3 1/16 | 1,800 | 8 | 5 7/8 | 5 | 7–10 | 6 | 5 | 4.40 |
| C-789-4 | 4 | 1 | 1 1/16 | 5,000 | 6 | 4 1/4 | 3 1/2 | 4–6 | 4 | 3 1/2 | 2.13 |
| C-789A-4 | 4 | 1 1/2 | 1 9/16 | 5,000 | 7 | 4 3/4 | 4 | 4–6 | 4 1/16 | 4 | 3.00 |
| C-789B-4 | 4 | 2 | 2 1/16 | 5,000 | 7 | 5 3/8 | 4 5/8 | 4–6 | 5 1/8 | 4 5/8 | 3.50 |
| C-789C-4 | 4 | 2 1/2 | 2 9/16 | 5,000 | 10 | 6 | 5 1/8 | 7–10 | 5 7/8 | 5 1/8 | 3.93 |
| C-789D-4 | 4 | 3 | 3 1/8 | 5,000 | 10 | 6 5/8 | 5 3/4 | 7–10 | 6 3/8 | 5 3/4 | 5.00 |
| C-789E-4 | 4 | 4 | 4 1/8 | 5,000 | 12 | 7 3/4 | 6 1/2 | 7–10 | 7 3/16 | 6 1/2 | 6.30 |
| C-789-4 | 4 | 4 | 4 1/16 | 5,000 | 12 | 7 3/4 | 6 1/2 | 7–10 | 7 5/8 | 6 1/2 | 14.45 |
| C-789-4 | 4 | 5 1/2 | 5 11/16 | 5,000 | 16 | 9 5/8 | 8 1/4 | 16 | 9 1/2 | 8 1/4 | 26.40 |
| C-789-5 | 5 | 1 | 1 1/16 | 1,800 | 6 | 4 7/8 | 4 1/8 | 4–6 | 4 | 4 1/8 | 2.38 |
| C-789A-5 | 5 | 1 1/2 | 1 9/16 | 1,800 | 7 | 5 1/2 | 4 3/4 | 4–6 | 5 3/16 | 4 3/4 | 3.00 |
| C-789B-5 | 5 | 2 | 2 1/16 | 1,800 | 8 | 6 | 5 1/4 | 7–10 | 6 | 5 1/4 | 3.62 |
| C-789C-5 | 5 | 2 1/2 | 2 9/16 | 1,800 | 10 | 6 5/8 | 5 3/4 | 7–10 | 6 7/16 | 5 3/4 | 4.06 |
| C-789D-5 | 5 | 3 | 3 1/16 | 1,800 | 10 | 7 1/8 | 6 1/4 | 7–10 | 7 5/32 | 6 1/4 | 5.00 |
| C-789E-5 | 5 | 4 | 4 1/4 | 1,800 | 12 | 8 1/4 | 7 | 7–10 | 8 3/32 | 7 | 6.30 |
| C-789-5 | 5 | 4 | 4 3/16 | 5,000 | 12 | 8 3/8 | 7 1/8 | 7–10 | 8 1/4 | 7 1/8 | 14.95 |
| C-789-5 | 5 | 5 1/2 | 5 11/16 | 5,000 | 18 | 10 3/16 | 8 3/4 | 18 | 10 3/4 | 8 3/4 | 27.40 |
| C-789-6 | 6 | 1 | 1 | 1,800 | 7 | 5 3/8 | 4 5/8 | 4–6 | 5 1/8 | 4 5/8 | 3.85 |
| C-789A-6 | 6 | 1 1/2 | 1 1/2 | 1,800 | 8 | 5 7/8 | 5 | 7–10 | 6 3/16 | 5 | 4.75 |
| C-789B-6 | 6 | 2 | 2 1/16 | 1,800 | 10 | 6 3/8 | 5 1/2 | 7–10 | 6 1/2 | 5 1/2 | 6.28 |
| C-789C-6 | 6 | 2 1/2 | 2 9/16 | 1,800 | 12 | 7 | 6 | 12–15 | 7 5/8 | 6 | 7.09 |
| C-789D-6 | 6 | 3 | 3 1/16 | 1,800 | 12 | 7 3/4 | 6 1/2 | 7–10 | 7 1/2 | 6 1/2 | 8.10 |
| C-789E-6 | 6 | 4 | 4 3/16 | 1,800 | 12 | 8 7/8 | 7 5/8 | 12–15 | 8 13/16 | 7 5/8 | 10.15 |
| C-789-6 | 6 | 4 | 4 1/8 | 7,200 | 12 | 8 7/8 | 7 7/8 | 12–15 | 8 7/8 | 7 7/8 | 16.00 |
| C-789-6 | 6 | 5 1/2 | 5 5/8 | 7,200 | 18 | 11 9/16 | 10 | 18 | 11 1/2 | 10 | 27.50 |
| C-789-8 | 8 | 1 | 1 1/16 | 1,800 | 10 | 7 | 6 | 7–10 | 6 9/16 | 6 | 5.05 |
| C-789A-8 | 8 | 1 1/2 | 1 9/16 | 1,800 | 10 | 7 | 6 | 7–10 | 7 3/16 | 6 | 5.25 |
| C-789B-8 | 8 | 2 | 2 1/16 | 1,800 | 12 | 7 1/2 | 6 1/2 | 7–10 | 7 11/16 | 6 1/2 | 7.00 |
| C-789C-8 | 8 | 2 1/2 | 2 11/16 | 1,800 | 14 | 8 1/4 | 7 | 12–15 | 8 1/16 | 7 | 7.55 |
| C-789D-8 | 8 | 3 | 3 3/16 | 1,800 | 12 | 8 7/8 | 7 5/8 | 12–15 | 8 27/32 | 7 5/8 | 9.90 |
| C-789E-8 | 8 | 4 | 4 3/16 | 1,800 | 16 | 10 | 8 3/4 | 12–15 | 9 13/16 | 8 3/4 | 10.13 |
| C-789-8 | 8 | 4 | 4 3/16 | 7,200 | 16 | 10 | 8 3/4 | 12–15 | 9 7/8 | 8 3/4 | 16.90 |
| C-789-8 | 8 | 5 1/2 | 5 5/16 | 7,200 | 20 | 11 13/16 | 10 1/4 | 20 | 11 3/4 | 10 1/4 | 34.10 |
| C-789-10 | 10 | 1 | 1 | 1,800 | 10 | 8 1/4 | 7 1/4 | 7–10 | 6 9/16 | 7 1/4 | 5.05 |
| C-789A-10 | 10 | 1 1/2 | 1 5/8 | 1,800 | 10 | 8 1/4 | 7 1/4 | 7–10 | 7 3/16 | 7 1/4 | 5.25 |
| C-789B-10 | 10 | 2 | 2 1/16 | 1,800 | 12 | 9 1/8 | 7 7/8 | 7–10 | 7 11/16 | 7 7/8 | 7.0 |
| C-789C-10 | 10 | 2 1/2 | 2 1/8 | 1,800 | 16 | 9 5/8 | 8 1/8 | 16–20 | 9 11/16 | 8 1/8 | 8.75 |
| C-789D-10 | 10 | 3 | 3 1/8 | 5,000 | 16 | 10 1/8 | 8 1/8 | 16–20 | 10 3/8 | 8 1/8 | 10.70 |
| C-789E-10 | 10 | 4 | 4 1/8 | 5,000 | 18 | 11 1/8 | 9 3/4 | 16–20 | 11 1/16 | 9 3/4 | 13.88 |
| C-789-10 | 10 | 4 | 4 1/16 | 7,200 | 18 | 11 1/8 | 9 3/4 | 16–20 | 11 1/8 | 9 3/4 | 17.50 |
| C-789-10 | 10 | 5 1/2 | 5 5/16 | 7,200 | 20 | 13 1/8 | 11 1/4 | 20 | 12 5/8 | 11 1/4 | 36.60 |
| C-789-12 | 12 | 1 | 1 1/8 | 2,500 | 14 | 9 3/8 | 8 1/8 | 12–15 | 9 1/4 | 8 1/8 | 7.30 |
| C-789A-12 | 12 | 1 1/2 | 1 5/8 | 5,000 | 14 | 9 3/8 | 8 1/8 | 12–15 | 9 7/8 | 8 1/8 | 7.35 |
| C-789B-12 | 12 | 2 | 2 1/8 | 5,000 | 16 | 10 | 8 5/8 | 16–20 | 9 15/16 | 8 5/8 | 9.20 |
| C-789C-12 | 12 | 2 1/2 | 2 1/8 | 5,000 | 18 | 10 1/2 | 9 1/8 | 16–20 | 10 9/16 | 9 1/8 | 10.04 |
| C-789D-12 | 12 | 3 | 3 1/8 | 5,000 | 18 | 11 1/4 | 9 3/4 | 16–20 | 11 1/8 | 9 3/4 | 11.00 |
| C-789E-12 | 12 | 4 | 4 1/8 | 5,000 | 20 | 12 1/4 | 10 3/4 | 16–20 | 12 1/16 | 10 3/4 | 14.45 |
| C-789-12 | 12 | 4 | 4 1/8 | 11,000 | 20 | 12 1/4 | 10 3/4 | 16–20 | 12 1/8 | 10 3/4 | 28.00 |
| C-789-12 | 12 | 5 1/2 | 5 5/16 | 11,000 | 24 | 14 1/4 | 12 3/8 | 24 | 13 3/4 | 12 3/8 | 36.60 |

# Pipe Straps, Conduit Clamps and Hangers

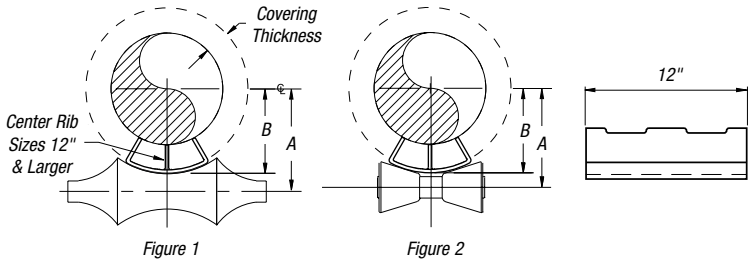



Figure 1 Figure 2

C-789

## Pipe Saddles and Pipe Shields *(Continued)*

| CAT. NO. | PIPE SIZE (IN.) | MAX. COVERING THICKNESS (IN.) | ACTUAL COVERING THICKNESS (IN.) | MAX LOAD (LBS.) | FIGURE 1 (IN.) ROLL SIZE | FIGURE 1 (IN.) A | FIGURE 1 (IN.) B | FIGURE 2 (IN.) ROLL SIZE | FIGURE 2 (IN.) A | FIGURE 2 (IN.) B | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C-789A-14 | 14 | 1½ | 1½ | 5,000 | 16 | 10¼ | 9 | 16–20 | 10⅜ | 9 | 8.25 |
| C-789B-14 | 14 | 2 | 2 | 5,000 | 18 | 10¾ | 9⅜ | 16–20 | 10¾ | 9⅜ | 9.20 |
| C-789C-14 | 14 | 2½ | 2⅛ | 5,000 | 18 | 11⅜ | 9⅞ | 16–20 | 11¼ | 9⅞ | 10.04 |
| C-789D-14 | 14 | 3 | 3 | 5,000 | 18 | 12 | 10½ | 16–20 | 11¾ | 10½ | 11.00 |
| C-789E-14 | 14 | 4 | 4 | 5,000 | 24 | 13¼ | 11¾ | 22–24 | 12⅜ | 11¾ | 15.50 |
| C-789-14 | 14 | 4 | 4 | 11,000 | 24 | 12¾ | 11¼ | 22–24 | 11⅞ | 11¼ | 27.60 |
| C-789-14 | 14 | 5½ | 5½ | 11,000 | 24 | 15 | 13⅛ | 24 | 14½ | 13⅛ | 36.60 |
| C-789A-16 | 16 | 1½ | 1½ | 5,000 | 18 | 11⅛ | 9¾ | 16–20 | 11¼ | 9¾ | 8.25 |
| C-789B-16 | 16 | 2 | 2 | 5,000 | 20 | 11¾ | 10¼ | 16–20 | 11⅝ | 10¼ | 9.20 |
| C-789C-16 | 16 | 2½ | 2½ | 7,200 | 20 | 12¼ | 10¾ | 16–20 | 12¼ | 10¾ | 13.69 |
| C-789D-16 | 16 | 3 | 3 | 7,200 | 24 | 12⅞ | 11⅛ | 22–24 | 12⅞ | 11⅛ | 14.65 |
| C-789E-16 | 16 | 4 | 4 | 7,200 | 24 | 14 | 12¼ | 22–24 | 13⁹⁄₁₆ | 12¼ | 15.50 |
| C-789-16 | 16 | 4 | 4 | 11,000 | 24 | 14 | 12¼ | 22–24 | 13⅝ | 12¼ | 30.10 |
| C-789-16 | 16 | 5½ | 5½ | 11,000 | 30 | 16⅕ | 13⅞ | 30 | 15¾ | 13⅞ | 39.00 |
| C-789A-18 | 18 | 1½ | 1½ | 5,000 | 20 | 12¼ | 10¾ | 16–20 | 12¼ | 10¾ | 9.35 |
| C-789B-18 | 18 | 2 | 2 | 7,200 | 24 | 13⅛ | 11⅝ | 22–24 | 12⅜ | 11⅝ | 12.00 |
| C-789C-18 | 18 | 2½ | 2½ | 7,200 | 24 | 13½ | 11¾ | 22–24 | 13 | 11¾ | 14.19 |
| C-789D-18 | 18 | 3 | 3 | 7,200 | 24 | 14 | 12¼ | 22–24 | 13½ | 12¼ | 15.25 |
| C-789E-18 | 18 | 4 | 4 | 7,200 | 24 | 15⅜ | 13⅝ | 22–24 | 14⅝ | 13⅝ | 21.00 |
| C-789-18 | 18 | 4 | 4 | 13,200 | 24 | 15⅛ | 13⅜ | 22–24 | 14⅜ | 13⅜ | 40.30 |
| C-789-18 | 18 | 5½ | 5½ | 13,200 | 30 | 17⅓ | 15 | 30 | 16⅞ | 15 | 52.10 |
| C-789A-20 | 20 | 1½ | 1½ | 7,200 | 24 | 13½ | 11¾ | 22–24 | 13 | 11¾ | 11.05 |
| C-789B-20 | 20 | 2 | 2 | 7,200 | 24 | 14 | 12¼ | 22–24 | 13½ | 12¼ | 12.40 |
| C-789C-20 | 20 | 2½ | 2½ | 7,200 | 24 | 14⅝ | 12⅞ | 22–24 | 14⅛ | 12⅞ | 14.19 |
| C-789D-20 | 20 | 3 | 3 | 7,200 | 24 | 15¼ | 13¾ | 26–30 | 14⅞ | 13¾ | 15.25 |
| C-789E-20 | 20 | 4 | 4 | 7,200 | 30 | 16½ | 14¼ | 26–30 | 15¾ | 14¼ | 22.80 |
| C-789-20 | 20 | 4 | 4 | 13,200 | 7 | 16⅝ | 14⅜ | 26–30 | 15⅞ | 14⅜ | 44.80 |
| C-789-20 | 20 | 5½ | 5½ | 13,200 | 30 | 18⅓ | 16 | 30 | 17⅞ | 16 | 52.10 |
| C-789A-24 | 24 | 1½ | 1½ | 7,200 | 30 | 16⅜ | 14⅛ | 26–30 | 15¾ | 14⅛ | 12.90 |
| C-789B-24 | 24 | 2 | 2 | 7,200 | 30 | 16⅜ | 14⅛ | 26–30 | 15¾ | 14⅛ | 13.90 |
| C-789C-24 | 24 | 2½ | 2½ | 7,200 | 30 | 17 | 14¾ | 26–30 | 16⅝ | 14¾ | 18.07 |
| C-789D-24 | 24 | 3 | 3 | 7,200 | 30 | 17½ | 15¼ | 26–30 | 17⅛ | 15¼ | 19.35 |
| C-789E-24 | 24 | 4 | 4 | 7,200 | 30 | 18¾ | 16½ | 26–30 | 18 | 16½ | 23.10 |
| C-789-24 | 24 | 4 | 4 | 13,200 | 30 | 18⅞ | 16⅝ | 26–30 | 18⅛ | 16⅝ | 45.40 |

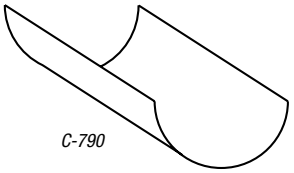
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# C-790 — Insulation Shield

Designed to protect the insulation and distribute the load at the hanger point. This item is usually used with our C-710 Clevis Hanger.




## Specifications

- Approvals: Federal Specification A-A-1192A Type 40, MSS-SP-69 Type 40
- Material: Carbon Steel
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify hanger size and catalog number

### Shield Size Selection Table

| PIPE SIZES | ½ | ¾ | 1 | 1½ | 2 |
|---|---|---|---|---|---|
| *Insulation Thickness (Inches)* | | | | | |
| ½ | 1A* | 1A | — | — | — |
| ¾ | 1A | 1A | 2A | 4A | 6A |
| 1 | 1A | 2A | 3A | 5A | 7A |
| 1¼ | 2A | 3A | 4A | 6A | 7A |
| 1½ | 2A | 3A | 4A | 6A | 7A |
| 2 | 3A | 4A | 5A | 7A | 8A |
| 2½ | 4A | 5A | 6A | 7A | 8A |
| 3 | 5A | 6A | 7A | 8A | 9A |
| 3½ | — | — | 8A | 9A | 10A |
| 4 | — | — | 8A | 9A | 10A |
| 5 | — | — | 9B | 10B | 11B |
| 6 | — | — | 10B | 11B | 12B |
| 8 | — | — | — | 13C | 14C |
| 10 | — | — | 14C | 15C | 16C |
| 12 | — | — | 16C | 17C | 19C |
| 14 | — | — | 17C | 19C | — |

| CAT. NO. | INSIDE DIAMETER (IN.) | CLEVIS HANGER SIZE (IN.) | LENGTH (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|
| **C-790-1A** | 2⅜ | 2 | 12 | .62 |
| **C-790-2A** | 2⅞ | 2½ | 12 | .76 |
| **C-790-3A** | 3½ | 3 | 12 | .92 |
| **C-790-4A** | 4 | 3½ | 12 | 1.04 |
| **C-790-5A** | 4½ | 4 | 12 | 1.16 |
| **C-790-6A** | 5 | 5 | 12 | 1.32 |
| **C-790-7A** | 5⅝ | 5 | 12 | 1.46 |
| **C-790-8A** | 6⅝ | 6 | 12 | 1.58 |
| **C-790-9A** | 7⅝ | 7 | 12 | 1.74 |
| **C-790-10A** | 8⅝ | 8 | 12 | 2.02 |
| **C-790-11B** | 9⅝ | 10 | 12 | 2.28 |
| **C-790-12B** | 10¾ | 10 | 12 | 2.54 |
| **C-790-13C** | 11¾ | 12 | 12 | 2.84 |
| **C-790-14C** | 12¾ | 12 | 12 | 4.18 |
| **C-790-15C** | 14 | 14 | 12 | 4.58 |
| **C-790-16C** | 15 | 16 | 12 | 4.90 |
| **C-790-17C** | 16 | 16 | 12 | 5.20 |
| **C-790-18C** | 17 | 18 | 12 | 5.53 |

*Standard Finish – GoldGalv®, unless otherwise stated.*

# M-117 — Eye Socket

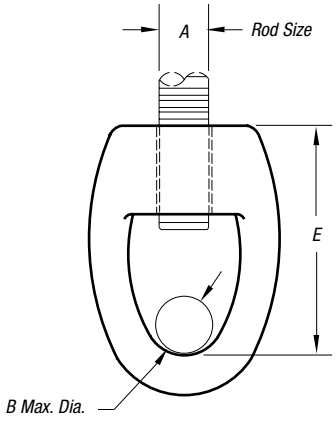
Designed for attaching a rod to split ring type clamps. M-117 is only available in ¼", ⅜" and ½" rod sizes.

## Specifications

- Material: Malleable Iron
- Compliance: Federal Specification WW-H-171E Type 16, MSS-SP-69 (Type 16)
- Finish: Plain, Copper
- Ordering: Specify rod size and catalog number

| CAT. NO. | ROD SIZE A (IN.) | MAX LOAD (LBS.) | MAX B (IN.) | E (IN.) | WT. EACH (LBS.) |
|---|---|---|---|---|---|
| **M-117-1/4** | ¼ | 240 | ¼ | 1⅜ | .08 |
| **M-117-3/8** | ⅜ | 610 | ¼ | 1⅜ | .08 |
| **M-117-1/2** | ½ | 1,000 | ¼ | 1 9⁄16 | .11 |
| **M-117-5/8** | ⅝ | 1,400 | ⅜ | 1¾ | .22 |
| **M-117-3/4** | ¾ | 2,200 | ½ | 2¼ | .30 |
| **M-117-7/8** | ⅞ | 2,300 | ½ | 2 7⁄16 | .32 |

*Standard Finish – GoldGalv®, unless otherwise stated.*




*M-117*

# Rods and Rod Attachments

### Shield Size Selection Table

| CAT. NO. | PIPE SIZES | D | F | 1 | 1D | 2 |
|---|---|---|---|---|---|---|
| *Insulation Thickness (Inches)* | | | | | | |
| C-790-1/2 | ½ | 1A* | 1A | — | — | — |
| C-790-3/4 | ¾ | 1A | 1A | 2A | 4A | 6A |
| C-790-1 | 1 | 1A | 2A | 3A | 5A | 7A |
| C-790-1-1/4 | 1¼ | 2A | 3A | 4A | 6A | 7A |
| C-790-1-1/2 | 1½ | 2A | 3A | 4A | 6A | 7A |
| C-790-2 | 2 | 3A | 4A | 5A | 7A | 8A |
| C-790-2-1/2 | 2½ | 4A | 5A | 6A | 7A | 8A |
| C-790-3 | 3 | 5A | 6A | 7A | 8A | 9A |
| C-790-3-1/2 | 3½ | — | — | 8A | 9A | 10A |
| C-790-4 | 4 | — | — | 8A | 9A | 10A |
| C-790-5 | 5 | — | — | 9B | 10B | 11B |
| C-790-6 | 6 | — | — | 10B | 11B | 12B |
| C-790-8 | 8 | — | — | — | 13C | 14C |
| C-790-10 | 10 | — | — | 14C | 15C | 16C |
| C-790-12 | 12 | — | — | 16C | 17C | 18C |
| C-790-14 | 14 | — | — | 17C | 18C | — |

**For Unarco foam, specify X1A*

### Sizes of CL-710 or C-710 Clevis

| PIPE SIZES | ½ | ¾ | 1 | 1½ | 2 |
|---|---|---|---|---|---|
| *For Use with Shields Outside of Insulation. Insulation Thickness (Inches)* | | | | | |
| ½ | 2 | 2 | — | — | — |
| ¾ | 2 | 2 | 2½ | 3½ | 5 |
| 1 | 2 | 2½ | 3 | 4 | 5 |
| 1¼ | 2½ | 3 | 3 | 5 | 5 |
| 1½ | 2½ | 3 | 3½ | 5 | 5 |
| 2 | 3 | 3½ | 4 | 5 | 6 |
| 2½ | 3½ | 4 | 5 | 5 | 6 |
| 3 | 4 | 5 | 5 | 6 | 8 |
| 3½ | — | — | 6 | 8 | 8 |
| 4 | — | — | 6 | 8 | 8 |
| 5 | — | — | 8 | 8 | 10 |
| 6 | — | — | 8 | 10 | 10 |
| 8 | — | — | — | 12 | 12 |
| 10 | — | — | 12 | — | — |

## E-151 — Lag Rod

Designed for a vertical rod connection to wood.

### Specifications

- Material: Carbon Steel
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify rod diameter, rod length, catalog number and finish



E-151

| CAT. NO. | ROD SIZE (IN.) | MAX LOAD (LBS.) | MIN. LENGTH (IN.) MACHINE B | MIN. LENGTH (IN.) COACH C | WT. EACH (LBS.) LENGTH — DIMENSION L 4 114 | 6 152 | 8 203 | 10 254 | 12 356 |
|---|---|---|---|---|---|---|---|---|---|
| E-151-3/8 | ⅜ | 390 | 2½ | 2 | .12 | .19 | .25 | .31 | .37 |
| E-151-1/2 | ½ | 640 | 2½ | 2 | .22 | .34 | .44 | .56 | .67 |
| E-151-5/8 | ⅝ | 750 | 2½ | 2½ | .35 | .53 | .70 | .87 | .59 |

*Standard Finish – GoldGalv®, unless otherwise stated*



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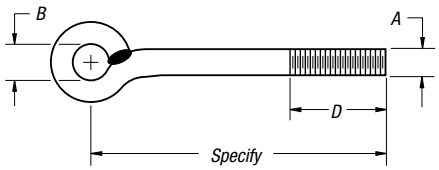
www.tnb.com

# E-157 — Machine Thread Eye Rod

Welded Eyerods are designed to permit swing in the attachment component due to pipe movement.

## Specifications

- Material: Carbon Steel. Larger rod diameters over 2½", special materials and special eye dimensions can be furnished upon request
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify catalog number, finish, rod size, rod length and thread length if other than standard




*E-157*

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **A (IN.)** | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ |
| **B (IN.)** | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 13/8 | 1⅝ | 1⅞ | 2½ | 2¾ | 3 | 3¼ |
| **Thread Length D (IN.)** | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 |
| **Load at (LBS.) 650° F/343° C** | 610 | 1,130 | 1,810 | 2,710 | 3,770 | 4,960 | 8,000 | 11,630 | 15,700 | 20,700 | 27,200 | 33,500 |
| **Load at (LBS.) 750° F/399° C** | 540 | 1,010 | 1,610 | 2,420 | 3,360 | 4,420 | 7,140 | 10,370 | 14,000 | 18,460 | 24,260 | 29,880 |

*Standard Finish – GoldGalv®, unless otherwise stated*

## F-111 — Forged Steel Clevis

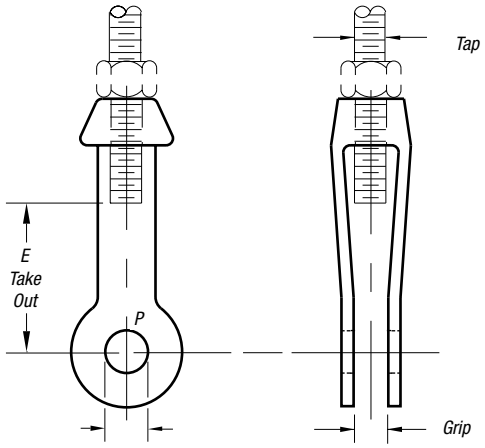
Used to connect rod ends with structural steel welding lug plates or lugs welded to pipe. It provides a pivot point and adjustment. It can be supplied with a pin as F-111.

### Specifications

- Material: Forged Steel
- Compliance: Federal Specification A-A-1192A Type 14, MSS-SP 69 Type 14 and BSPSS-BS3974
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify catalog number, rod size, pin size, grip "G" and finish

| CAT. NO. | ROD SIZE | MAX. LOAD 650° F/343° C | PIN/BOLT DIA. | SIZE NO. | P | WT. EACH (LBS.) |
|---|---|---|---|---|---|---|
| F-111-3/8 | 3/8 | 610 | 1/2 | 2 | 9/16 | .77 |
| F-111-1/2 | 1/2 | 1,130 | 5/8 | 2 | 11/16 | .77 |
| F-111-5/8 | 5/8 | 1,810 | 3/4 | 2 | 13/16 | .77 |
| F-111-3/4 | 3/4 | 2,710 | 7/8 | 2 1/2 | 1 | 2.50 |
| F-111-7/8 | 7/8 | 3,770 | 1 | 2 1/2 | 1 1/8 | 2.50 |
| F-111-1 | 1 | 4,960 | 1 1/8 | 3 | 1 1/4 | 4.00 |
| F-111-1-1/4 | 1 1/4 | 8,000 | 1 3/8 | 3 | 1 1/2 | 4.00 |
| F-111-1-1/2 | 1 1/2 | 11,630 | 1 5/8 | 3 1/2 | 1 3/4 | 6.00 |
| F-111-1-3/4 | 1 3/4 | 15,700 | 1 7/8 | 4 | 2 | 8.00 |
| F-111-2 | 2 | 20,700 | 2 1/4 | 5 | 2 3/8 | 16.00 |
| F-111-2-1/4 | 2 1/4 | 27,200 | 2 1/2 | 6 | 2 5/8 | 26.00 |
| F-111-2-1/2 | 2 1/2 | 33,500 | 2 3/4 | 6 | 2 7/8 | 36.00 |

*Standard Finish – GoldGalv®, unless otherwise stated*




*F-111*

***Note:*** *Pins and Cotter Pins supplied when requested as Fig. F-111.*

## E-120-A — Forged Weldless Eyenut

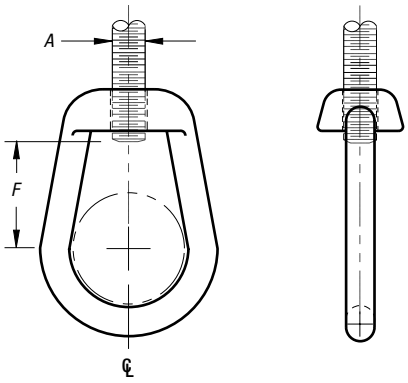
Used to connect rod ends with structural steel welded beam attachments or pipe clamps as a substitute for a welded eyerod. It provides a pivot point and adjustment. It can also be supplied tapped left hand as E-120-A.

### Specifications

- Material: Forged Steel
- Compliance: Federal Specification A-A-1192A Type 14, MSS-SP 69 Type 14 and BSPSS-BS3974
- Finish: Standard Finish – GoldGalv®, Black (add suffix "-B"), Electro-Galvanized (add suffix "-EG")
- Ordering: Specify catalog number, rod size and finish

| CAT. NO. | ROD TAP A | MAX. LOAD 650° F/343° C | F | WT. EACH (LBS.) |
|---|---|---|---|---|
| E-120-A-3/8 | 3/8 | 610 | 1 | .20 |
| E-120-A-1/2 | 1/2 | 1,130 | 1 | .31 |
| E-120-A-5/8 | 5/8 | 1,810 | 1 | .55 |
| E-120-A-3/4 | 3/4 | 2,710 | 1 | 1.00 |
| E-120-A-7/8 | 7/8 | 3,770 | 1 3/8 | 1.55 |
| E-120-A-1 | 1 | 4,960 | 1 3/4 | 2.45 |
| E-120-A-1-1/4 | 1 1/4 | 8,000 | 1 3/4 | 3.75 |
| E-120-A-1-1/2 | 1 1/2 | 11,630 | 1 3/4 | 6.75 |
| E-120-A-1-3/4 | 1 3/4 | 15,700 | 3 1/4 | 16.40 |
| E-120-A-2 | 2 | 20,700 | 3 1/4 | 16.75 |
| E-120-A-2-1/4 | 2 1/4 | 27,200 | 3 1/4 | 16.75 |
| E-120-A-2-1/2 | 2 1/2 | 33,500 | 3 1/4 | 16.75 |

*Standard Finish – GoldGalv®, unless otherwise stated*




*E-120-A*



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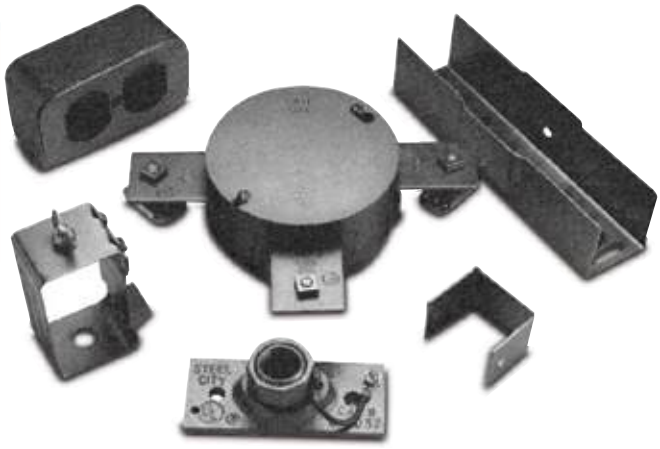
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# Electrical Raceway



## Series 800 Surface Raceway and Lighting Systems

Superstrut® channel together with snap-in closure strip is listed by Underwriters Laboratories as a surface metal raceway. Other accessories listed by Underwriters Laboratories are identified on the drawings.



## Electrical Applications

### Column A

Suitable for number of wires indicated when used as a raceway. Also suitable for number of wires indicated when installed to support and supply electric discharge type fixtures when raceway wiring is suitable for not less than 75° C.

### Column B

Suitable for number of wires indicated when used as a raceway. Also suitable for number of wires indicated when installed to support electric discharge type fixtures when clearance of not less than ⅛" is provided between raceway and fixture and when wiring is suitable for 75° C.

GoldGalv® hardware finish is standard for all Superstrut® products. This is a multi-process finish of electro-plated zinc, followed by gold-colored trivalent chromium coating to give excellent corrosion resistance and a superior paint base. See **pages B-106–B-107** for a complete description of the GoldGalv® hardware finish. GoldGalv® hardware finish will be furnished if no other finish is specified.

### Materials:

Superstrut® electrical raceway, fixture hanging channel, closure strip and accessories are cold formed from hot-rolled strip steel.

### Design Data:

Deflections at various hanger rod spacings for raceway channels, based on 40 to 45 lbs. per fixture.

| UL LISTED CHANNELS | |
|---|---|
| A-1200 | B-1200 |
| A-1200-KO | B1200AL |
| A-1200 AL | B-1400 |
| A-1200 PG | C-1200 |
| A-1400 | E-1200 |
| A-1400-KO | H-1200 |
| A-1400 SS | |



| CHANNEL | DEFLECTION AT 10 FT. | DEFLECTION AT 12 FT. | DEFLECTION AT 14 FT. |
|---|---|---|---|
| A-1200 | ¼" | ½" | ¾" |
| C-1200 | ⅜" | ¾" | * |
| A-1400 | ⅜" | ¾" | * |

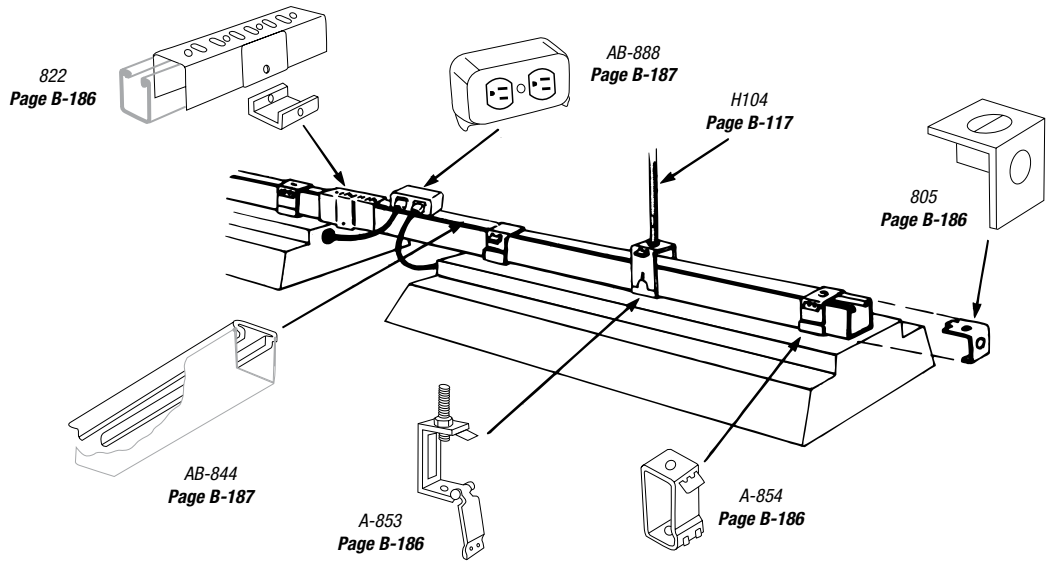
| | DEFLECTION AT 6 FT. | DEFLECTION CHANNEL AT 7 FT. | DEFLECTION AT 9 FT. |
|---|---|---|---|
| B-1200 | ⅜" | 9/16" | ⅝" |
| B-1400 | 1" | ½" | * |

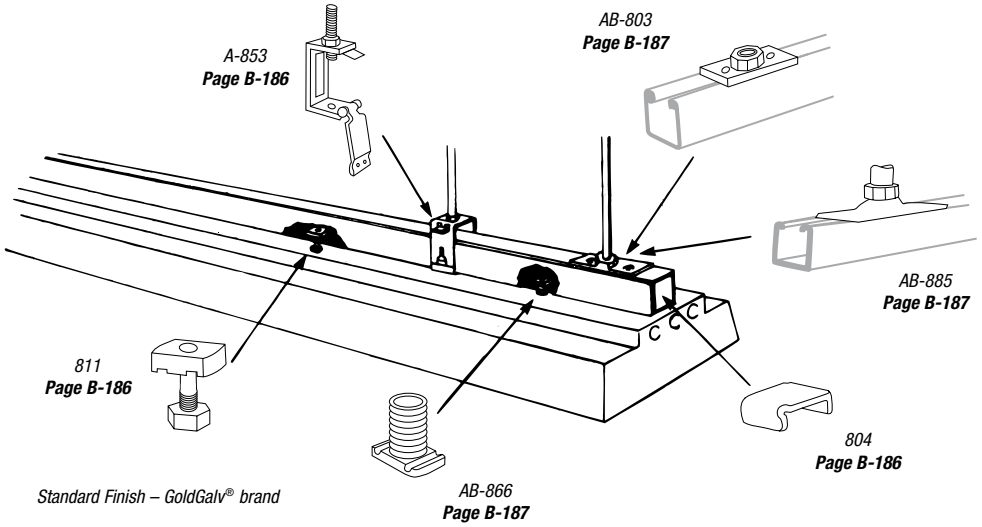
*Not recommended for this spacing

### Maximum Number of Wires

| | RACEWAY WITH OR WITHOUT KO | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | A-1200 A-1400 | | B-1200 B-1400 | | C-1200 | | E-1200 H-1200 | |
| AVG | A | B | A | B | A | B | A | B |
| 14 | 6 | 10 | 4 | 6 | 5 | 10 | 6 | 10 |
| 12 | 6 | 10 | 3 | 6 | 4 | 10 | 6 | 10 |
| 10 | 5 | 8 | — | — | 4 | 6 | 5 | 8 |
| 8 | 4 | 6 | — | — | 3 | 4 | 4 | 6 |
| 6 | 2 | 3 | — | — | 2 | 2 | 2 | 3 |

## Electrical Applications *(continued)*




*Standard Finish – GoldGalv® brand*



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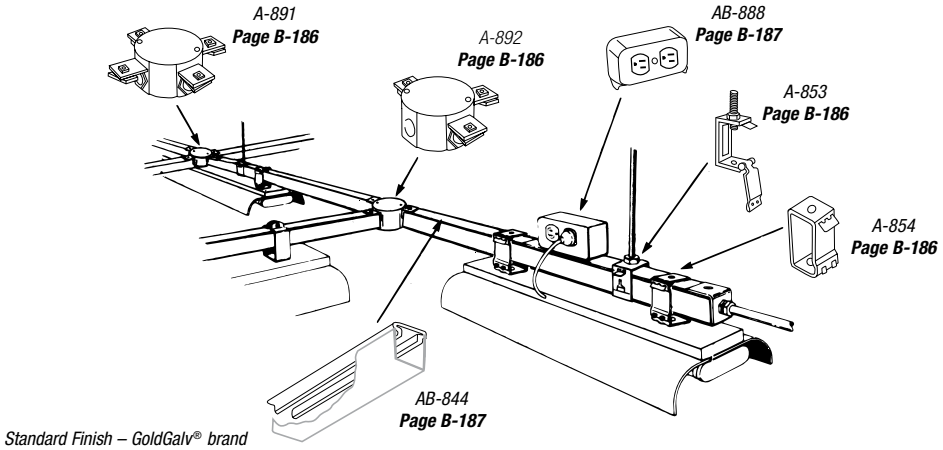
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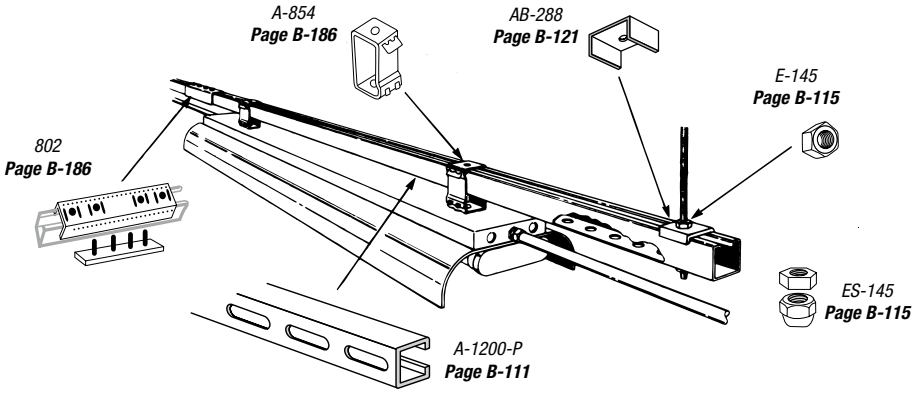
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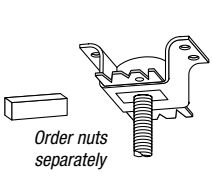
# Surface Raceway and Lighting Systems





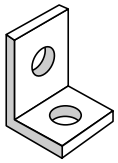

*Standard Finish – GoldGalv® brand*



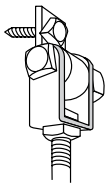



*Order nuts separately*

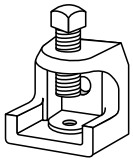
*452TB*
*Concrete Spot Insert*
***Page B-127***



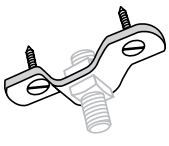
*540*
*Side Beam Hanger Clip*
***Page B-130***



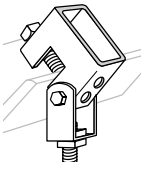
*S-541*
*Swing Connector*
***Page B-131***



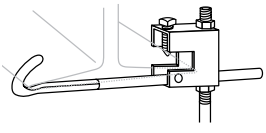
*500*
*Beam Clamp*
***Page B-130***



*U-579*
*Ceiling Flange*
***Page B-50***

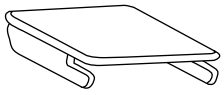


*US-563*
*Beam Clamp*
***Page B-130***

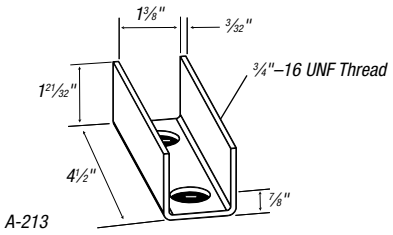


*U-569*
*Beam Clamp with Safety Rod*
***Page B-133***

# Fixture Fittings

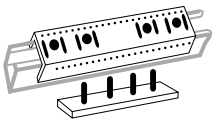


***A-243-1***
*End Cap for A-1200 Channel*



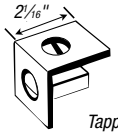

*A-213*

* UL Listed



***802***
*Raceway Joiner with Reinforcing Plate furnished complete with nuts.*

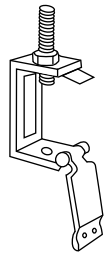
| CAT. NO. | FOR CHANNEL | STD. CTN. |
|---|---|---|
| **A802** | A Series | 25 |
| **B-802** | B Series | 25 |
| **E-802** | E Series | 10 |
| **H-802** | H Series | 10 |



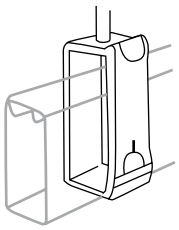

***809***
*Tapped End Cap*

12 ga for ¾" or 1" Conduit. Furnished complete with ¼" x ⅝" Flat Head Machine Screw and AB-100-1/4 nut.

| CAT. NO. | FOR CHANNEL | STD. CTN. |
|---|---|---|
| **A-809** | A Series | 25 |
| **H-809** | H Series | 25 |



***A853***
*Channel Hanger*
*Use hanger rod ⅜" or ½". Use with "A", "B" or "C" series single channel.*

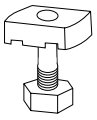


***A853L***
*Channel Hanger*
*Long type for all series channel.*



***804***
*End Cap*

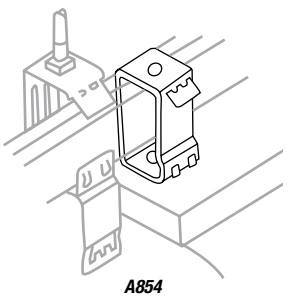
| CAT. NO. | FOR CHANNEL | STD. CTN. |
|---|---|---|
| **A804** | A-1200 | 25 |
| | A-1400 | 25 |
| **B804** | B-1400 | 25 |
| **C-804** | C-1200 | 25 |
| **E-804** | E-1200 | 25 |
| **H-804** | H-1200 | 25 |



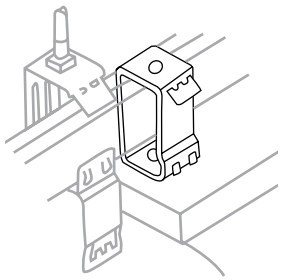
***811***
*Stud Nut*

For attaching fixture to Slot Down Channel or to Slot up Knockouts. Specific length. Hex Nut included.

| CAT. NO. | FOR CHANNEL | STD. CTN. |
|---|---|---|
| **811 1-STR** | ¼ x 1 | 50 |
| **811-2STR** | ¼ x 1¼ | 50 |



***A854***
*Channel Hanger*
*Illustration showing A-854 with nut and bolt furnished to attach to fluorescent fixture. Use with "A", "B" or "C" series channel.*



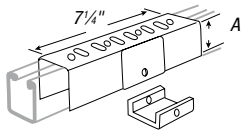
***A854L***
*Channel Hanger*
*Long Illustration showing A-854-L with nut and bolt furnished to attach to fluorescent fixture. Long type for all series channel.*




***805***
*End Cap with Knockout*

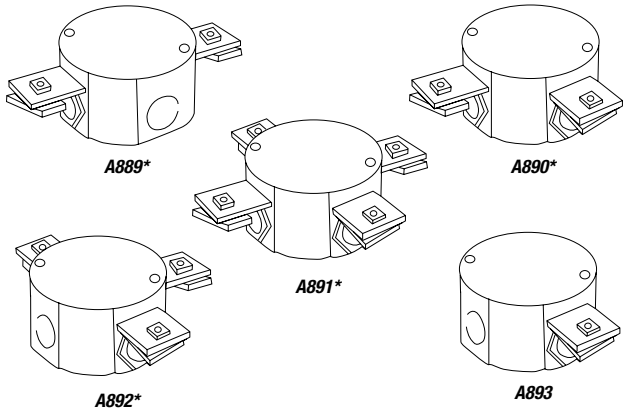
KO for ½" conduit. Furnished complete with ¼" x ⅝" flat Head Machine Screw and AB-100-1/4 nut.

| CAT. NO. | FOR CHANNEL | STD. CTN. |
|---|---|---|
| **A-805** | A Series | 25 |
| **H-805** | H Series | 25 |




***822***
*Raceway Jointer & Seal*

| CAT. NO. | A (IN.) | FOR CHANNEL | STD. CTN. |
|---|---|---|---|
| **A822*** | 1 11/16 | A Series | 25 |
| **B-822*** | ⅞ | B Series | 25 |
| **C-822*** | 1 7/16 | C Series | 25 |



***A889****
***A890****
***A891****
***A892****
***A893***



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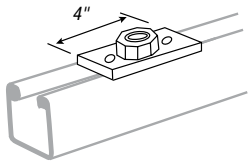
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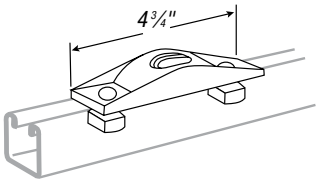
# Surface Raceway and Lighting Systems



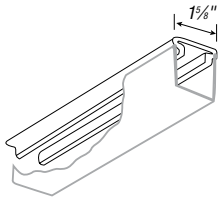
* UL Listed




***AB803****
*Cast Conduit Connector*
*To connect ½" or ¾" conduit to raceway channel — Furnished complete with stud nuts & hex nuts. Part has removable bushing to increase size from ½" to ¾".*



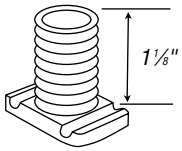

***AB815***
*Swing Connector*
*Nuts & bolts to clamp to channel included. For ½" or ¾" conduit.*



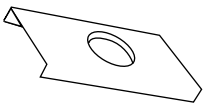

***AB-844****
*Steel Closure Strip*

***AB-844-PC****
*Plastic Closure Strip*

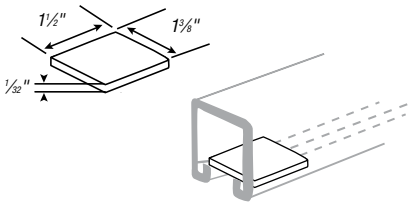
*When used as a raceway channel, it is normally installed with the slot up and after wiring is complete, the closure strip is installed. For all channels. Standard lengths 10 ft.*



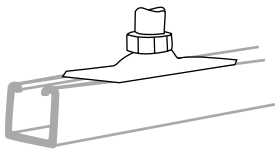

***AB-866***
*½" Pipe thread*



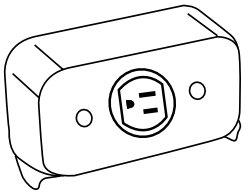
***AB867****
*Spacer Clevis*
*For use with AB-866 wiring stud nuts.*



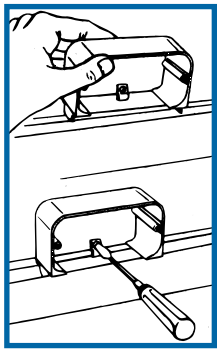

***AB868***
*Fiber Retainer for cables until closure strip is installed.*

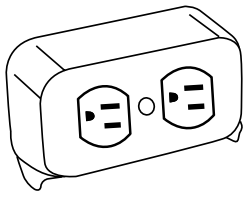


***AB885***
*15° Swivel*
*Nuts and bolts to clamp to channel included. For ½" or ¾" conduit.*

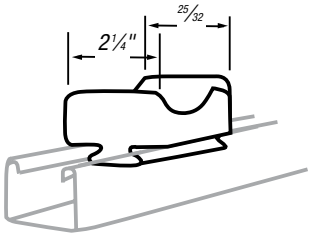


***AB887****
*Single Outlet*
*Complete unit including housing, standard SINGLE 3-wire, 15 Amp, 125 Volt, NEMA ground receptacle and cover plate.*





***AB888****
*Duplex Outlet*
*Complete unit including housing, standard DUPLEX 3-wire, 15 Amp, 125 Volt, NEMA ground receptacle and cover plate.*




***AB-880*** ***AB-881***
*3" and 4" Porcelain Saddles*

| CAT. NO. | MAX. CABLE DIAM. (IN.) | STD. CTN. |
|---|---|---|
| AB-880 | 3 | 3 |
| AB-881 | 4 | 4½ |

## Slotted Angle Metal Framing

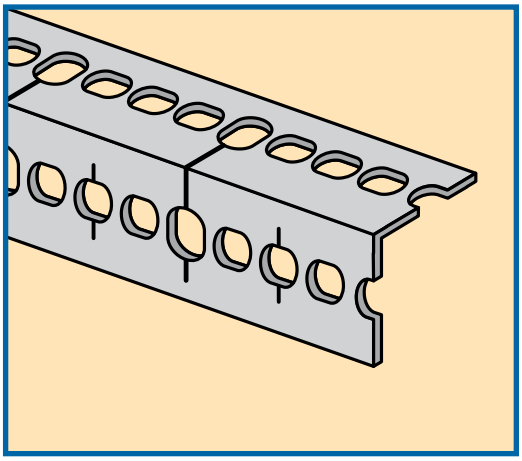
# With Superangle, You Get Flexibility — Simplicity — Economy!

## Superangle Slotted Angle Metal Framing

**Create the support framing you need.**

Superangle is manufactured from structural-quality steel in three different sizes. The small sizes are 14 ga. steel, the larger size is 12 ga. steel. With this offering, an endless variety of metal framing requirements can be met, from lightweight supporting needs to larger shelving needs such as inventory storage.

One of the legs on all sizes is 1 5/8" wide, while the other is either 1 5/8", 2 3/8" or 3 1/8" long. Depending on the frame requirements, a single size can be utilized throughout, or the sizes can be interchanged to get the most efficient usage from the material.



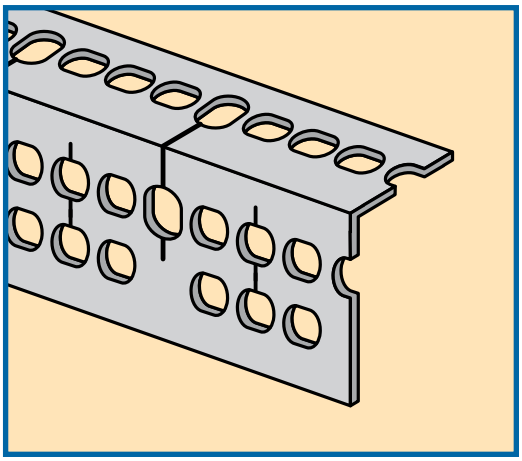
**Installation time is reduced — inventory space is minimal.**

Scribe marks are placed every 3/4", which saves planning, layout and cutting time and provides accuracy. The exclusive slot and hole pattern, repeated every 3", is scientifically designed for ease of assembly. The proper nuts and bolts are included with the material to ensure fast and easy erection.

Superangle Metal Framing is packaged in 10' and 12' lengths to minimize cutoffs and ensure maximum use of material.

10', 12' lengths of Superangle take up the same amount of space as one 2 x 4. A standard package includes five pieces to a bundle, therefore handling and storage space are significantly reduced.

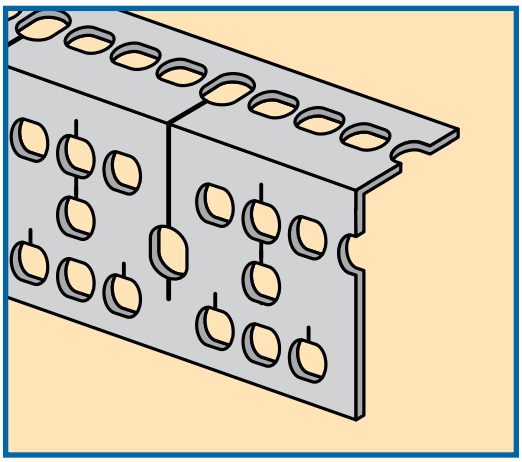
The importance of cutting Superangle easily, quickly and accurately is the key to time-saving assembly. The Portable Cutter provides these advantages and makes layout and erection of any structure a light-work job.



**Finish is designed for long lasting durability.**

The standard GoldGalv® hardware finish is applied to all Superangle products after rolling and punching of the holes. This provides you with a number of benefits. First, raw ends resulting from cuts will be protected by the sacrificial quality of zinc. Second, the edges of all holes are protected against formation of rust, to provide a call-back free installation. Third, the electro-galvanizing process provides an excellent bonding surface for paint if desired for aesthetic reasons.

***Note**: Product is also available with Pre-Galvanized (PG) sections*





Thomas&Betts

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Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

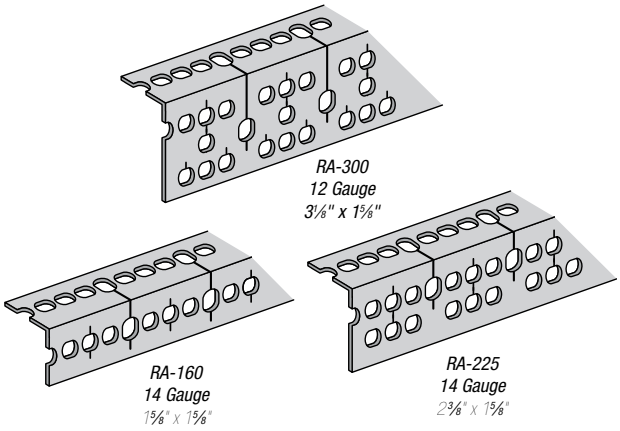
**Technical Services**
Tel: 888.862.3289

www.tnb.com

## Superangle Slotted Angle Metal Framing *(continued)*

| CAT. NO. | LENGTH (FT.) | FT. PER PKG. | STD. CTN. |
|---|---|---|---|
| **RA-160-10** | 10 | 50 | 1,000 |
| **RA-160-12** | 12 | 60 | 1,200 |
| **RA-225-10** | 10 | 50 | 1,000 |
| **RA-225-12** | 12 | 60 | 1,200 |
| **RA 300 10** | 10 | 50 | 1,000 |
| **RA-300-12** | 12 | 60 | 1,200 |

*5 Lengths, 36 Nuts and Bolts*



*RA-300*
*12 Gauge*
*3⅛" x 1⅝"*

*RA-160*
*14 Gauge*
*1⅝" x 1⅝"*

*RA-225*
*14 Gauge*
*2⅜" x 1⅝"*

## Superangle Accessories

### Casters

| CAT. NO. | STD. PKG. | STD. CTN. |
|---|---|---|
| **RA RC** | 2 | 2 |
| **RA SC** | 2 | 2 |



*RA-RC*
*Rigid Center*

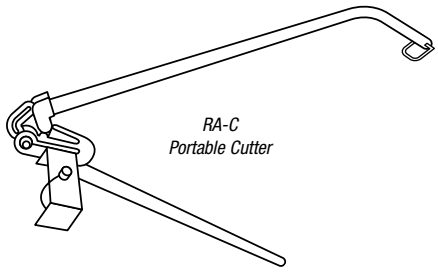


*RA-SC*
*Swivel Caster*

*Rigid & Swivel Casters*
*Hard rubber composition 3½" dia.*
*with load rating of 225 lbs. per wheel.*

### Portable Cutter

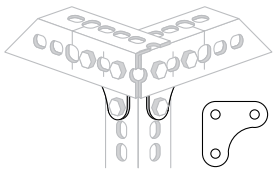
| CAT. NO. | STD. PKG. | STD. CTN. |
|---|---|---|
| **RA C** | 1 | 1 |



*RA-C*
*Portable Cutter*

### Gusset Plate

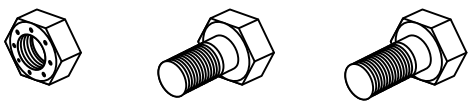
| CAT. NO. | STD. PKG. | STD. CTN. |
|---|---|---|
| **RA GP** | 25 | 100 |



*RA-GP*
*Gusset Plate*
*for extra-rigid*
*assembly.*

### Extra Nuts and Bolts

| CAT. NO. | PACKAGE 100 SETS | STD. CTN. |
|---|---|---|
| **RA BN 5/8** | ⅜"–16 x ⅝" lg. | 100 |
| Use with RA-160 & RA-225 | | |
| **RA BN 3/4** | ⅜"–16 x ¾" lg. | 100 |
| Use with RA-300 | | |



*Extra Nuts and Bolts*

## Special Metals and Finishes

# Properties for Design — Stainless Steel (Suffix SS/Type 304 and 6SS/Type 316)

Superstrut® stainless steel products are made from high-quality austenitic Type 304 and Type 316 material. Stainless steel contains large amounts of chromium and nickel, is non magnetic and offers superior corrosion resistance. Tolerant to high-temperature environments, Superstrut's stainless steel framing provides dependable support, resulting in reduced maintenance cost. The channel is roll-formed to shape when cold, enhancing its structural strength for the most rigid of applications.

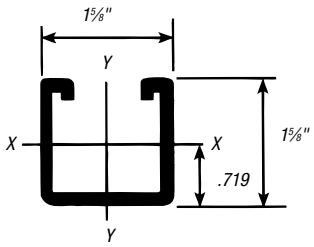


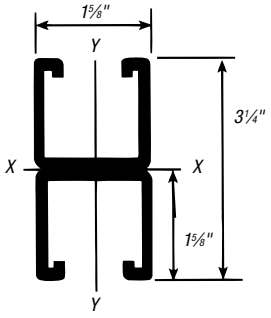
### Stainless Steel Channel

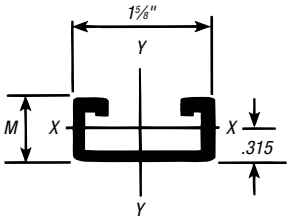
Elements of sections are the same as shown on **pages B-200–B-210** for standard steel channel. Load ratings meet or exceed ratings for standard steel channel shown elsewhere in this catalog.

*Additional stainless steel and aluminum items are available. Contact your local Superstrut® representative.*

# Properties for Design Aluminum Channel (Suffix AL)




| SECTION MEMBER | A IN.² | X - X AXIS I IN.⁴ | S IN.³ | R IN. | Y - Y AXIS I IN.⁴ | S IN.³ | R IN. |
|---|---|---|---|---|---|---|---|
| **A-1200** | .563 | .198 | .224 | .594 | .274 | .338 | .698 |
| **B-1200** | .400 | .041 | .082 | .320 | .150 | .185 | .612 |
| **A-1202** | 1.126 | 1.001 | .620 | .942 | .548 | .676 | .698 |

**Span (IN.): 12, 18, 24, 30, 36, 42, 48, 54, 60, 72, 84, 96, 108 & 120.**

12 ga. = .105"

**I —** Moment of Inertia

**S —** Section of Modulus

**r —** Radius of Gyration

**A —** Area

Calculations based on maximum fiber stress of 10,000 psi, maximum 1/360th span deflection. For concentrated loads, multiply load by 0.50.

### Specifications

- Alloy and Temper: 6063-T6
- Tensile Strength: Yield — 25,000 PSI Ultimate — 30,000 PSI
- Shear — Ultimate: 19,000 PSI
- Elongation: (Percent in 2 inches) -12
- Density: .098 Lbs./Cu. Inch
- Modules of Elasticity: 10 x 106 PSI

### Safe Uniform Total Load Table (X-X AXIS)

| SPAN (IN.) | B-1200-AL (LBS.) | A-1200-AL (LBS.) | A-1202-AL (LBS.) |
|---|---|---|---|
| 12 | 540 | 1,490 | 4,130 |
| 18 | 270 | 990 | 2,760 |
| 24 | 150 | 730 | 2,070 |
| 30 | 90 | 470 | 1,650 |
| 36 | 60 | 320 | 1,370 |
| 42 | 50 | 240 | 1,180 |
| 48 | — | 180 | 930 |
| 54 | — | 140 | 730 |
| 60 | — | 110 | 590 |
| 72 | — | 80 | 410 |
| 84 | — | 60 | 300 |
| 96 | — | 40 | 230 |
| 108 | — | 30 | 180 |
| 120 | — | 20 | 140 |



Thomas&Betts

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Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

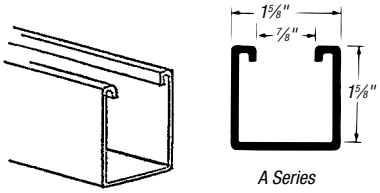
**Technical Services**
Tel: 888.862.3289

www.tnb.com

## Special Metals and Finishes

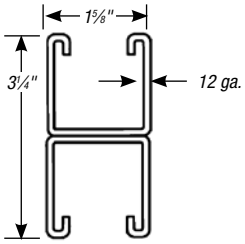
# Aluminum Products (AL Suffix)



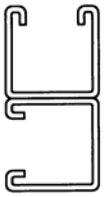



A Series

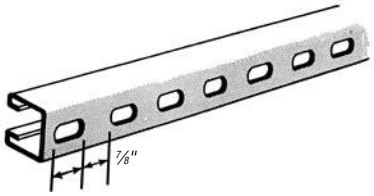
**A-1200_AL**
1⅝" deep channel and combination



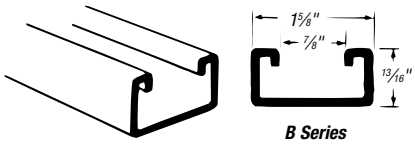

**A-1202_AL**



**A-1202-C_AL**

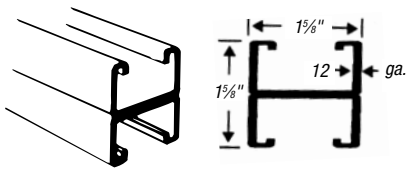



**A-1200-HS_AL**
Slots 2" on center.
Slot size 9⁄16" x 1⅛"

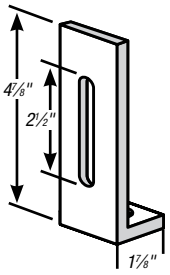



**B Series**

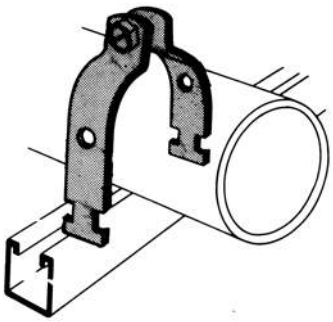
**B-1200_AL**



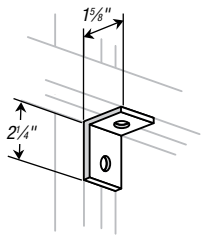

**B-1202_AL**




**X201_AL**



**702_AL**
Rigid Conduit Pipe Strap



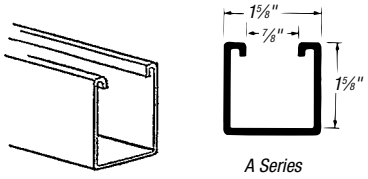

**AB201_AL**

## Special Metals and Finishes

# Stainless Steel Products

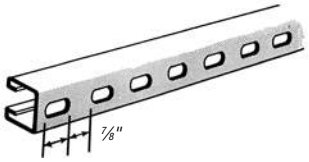
**Available in:**

- Type 304 Stainless Steel — SS Suffix
- Type 316 Stainless Steel — SS6 Suffix

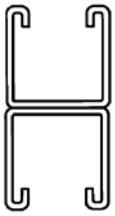



A Series

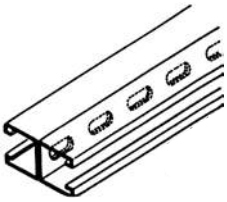
***A-1200_SS***
***A-1200_T316SS***



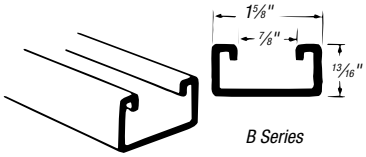

***A-1200-HS_SS***
***A-1200_HS_T316SS***



***A-1202_SS***
***A-1202-T316SS***

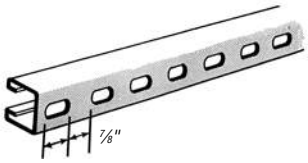


***A-1202-HS_SS***
***A-1202-HS_T316SS***

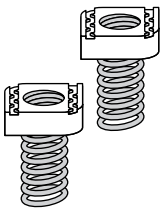



B Series

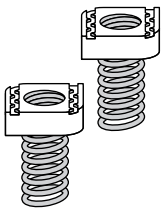
*12 gauge*
***B-1200_SS***
***B-1200_T316SS***
*14 gauge*
***B-1400_SS***
***B-1400_T316SS***



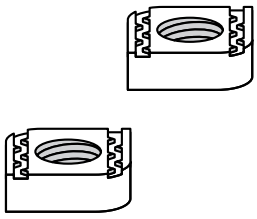

***B-1400-HS_SS***
***B-1400-HS_T316SS***



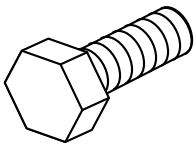
***A-100***
*Regular Spring Nut*



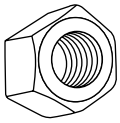
***B-100***
*Short Spring Nut*



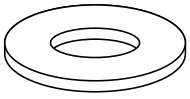
***AB-100***
*Springless Nut*



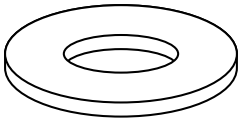
***E-142***
*Hex Head Cap Screw*



***E-145***
*Standard Hex Nut*



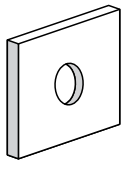
***EF-147***
*Fender Washer*



***E-147***
*Flat Steel Washer*

**AB-241 Square Washer**

| CAT. NO. | ROD SIZE (IN.) | STD. CTN. |
|---|---|---|
| AB-241-1/4 | ¼ | 100 |
| AB-241-3/8 | ⅜ | 100 |
| AB-241-1/2 | ½ | 100 |





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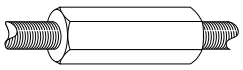
**Technical Services**
Tel: 888.862.3289

www.tnb.com

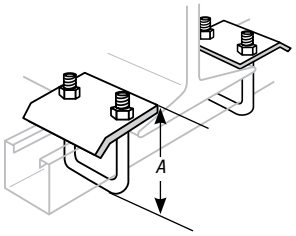
# Stainless Steel Products *(continued)*

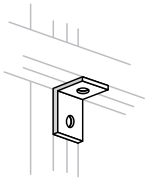
**Available in:**

- Type 304 Stainless Steel — SS Suffix
- Type 316 Stainless Steel — SS6 Suffix

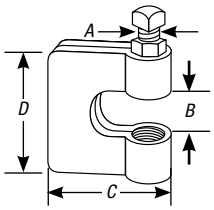


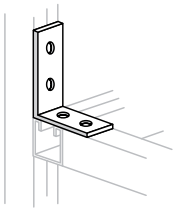
***H-119***
*Rod Coupling*



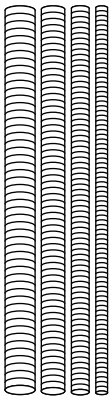



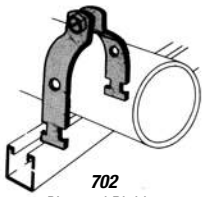
***AB201***



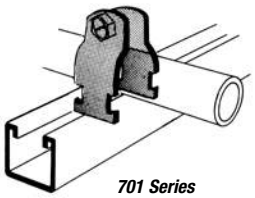



***AB205***





***702***
*Pipe and Rigid or IMC Conduit Clamp*



***701 Series***



*Cobra Clamp*

## U501, U502

| CAT. NO. | FOR CHANNEL | A (IN.) | STD. CTN. |
|---|---|---|---|
| U501 | A-1200 A-1400<br>B-1200 B-1400<br>C-1200 B-1402 | 3 3/16 | 20 |
| U502 | A-1202 A-1402<br>C-1202 H-1200 | 4 13/16 | 20 |

*Furnished complete*

*Design Load U501 — 2150 lbs.*
*U502 — 3000 lbs.*

## C-775L — Clamp with Lock Nut

| CAT. NO. | ROD SIZE (IN.) | DIMENSONS (IN.) A | B | C | D | DESIGN LOAD (LBS.) | STD. CTN. |
|---|---|---|---|---|---|---|---|
| C-775L | 3/8 | 3/8 | 3/4 | 2 3/8 | 2 3/8 | 400 | 100 |
| | 1/2 | 2 3/8 | 2 5/16 | 2 5/16 | 2 3/8 | 500 | 100 |

## H-104

- Hanger rod
- Continuous threaded

| CAT. NO. | NATIONAL COARSE THREAD SIZE (IN.) | THREADS PER INCH | DESIGN LOAD (LBS.) | STD. CTN. |
|---|---|---|---|---|
| H-104-1-1/4 | 1 1/4 | 20 | 150 | 500 |
| H-104-3/8 | 3/8 | 16 | 610 | 500 |
| H-104-1/2 | 1/2 | 13 | 1,130 | 500 |
| H-104-5/8 | 5/8 | 11 | 1,810 | 500 |
| H-104-3/4 | 3/4 | 10 | 2,710 | 500 |
| H-104-7/8 | 7/8 | 9 | 3,770 | 500 |
| H-104-1 | 1 | 8 | 4,960 | 500 |

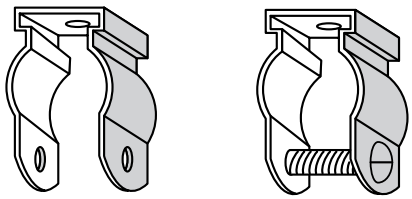
*Standard lengths 12' only*

## Cobra® Clamp

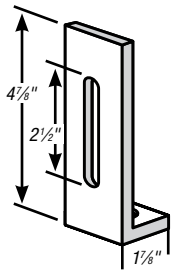
| CAT. NO. | FOR EMT AND RIGID CONDUIT TRADE SIZE (IN.) | CABLE O.D. RANGE (IN.) | STATIC LOAD LIMIT (LB) SAFETY FACTOR = 4 | STD. CTN. |
|---|---|---|---|---|
| *316 Stainless Steel* | | | | |
| CPC050SS6 | 1/2 | .650–.890 | 200 | 100 |
| CPC075SS6 | 3/4 | .860–1.110 | 200 | 100 |
| CPC100SS6 | 1 | 1.100–1.400 | 200 | 100 |
| CPC125SS6 | 1 1/4 | 1.400–1.725 | 200 | 50 |
| CPC150SS6 | 1 1/2 | 1.690–1.980 | 200 | 50 |
| CPC200SS6 | 2 | 1.980–2.576 | 200 | 50 |
| CPC250SS6 | 2 1/2 | 2.576–3.060 | 350 | 25 |
| CPC300SS6 | 3 | 3.060–3.626 | 350 | 25 |
| CPC350SS6 | 3 1/2 | 3.626–4.126 | 350 | 25 |
| CPC400SS6 | 4 | 4.126–4.626 | 350 | 25 |

## Special Metals and Finishes

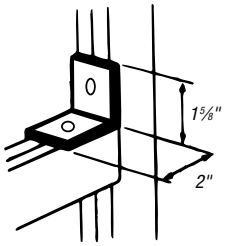
# Type 304 Stainless Steel Products (SS Suffix)



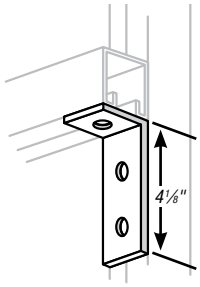
**6H Series** **6H-B Series**
*Conduit and Pipe Hanger*



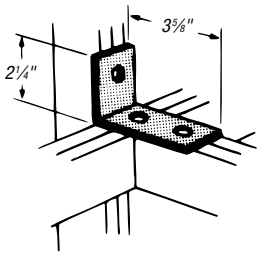

**X201**



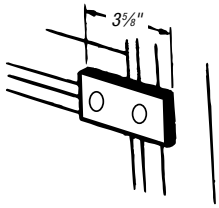

**AB202**



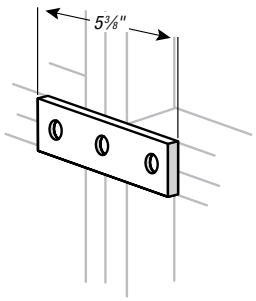

**AB203**



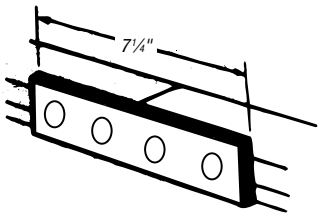

**AB204**



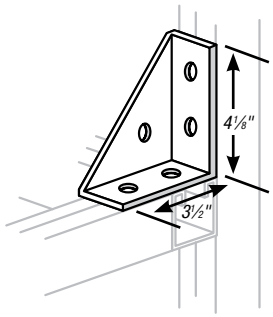

**AB206**



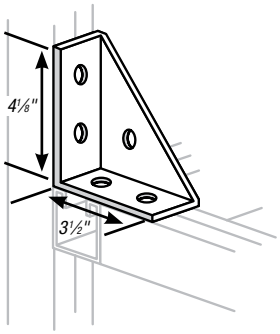

**AB207**



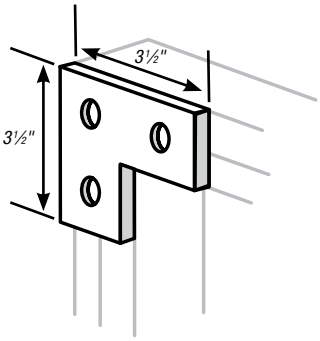

**X207**



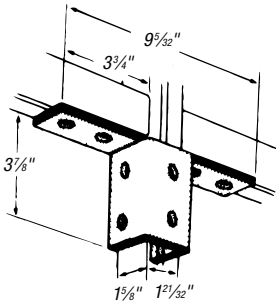

**AB213**




**AB214**




**AB219**




**AW219**



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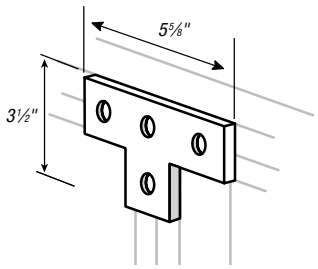
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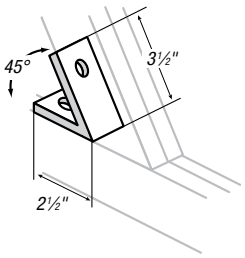
## Special Metals and Finishes

# Type 304 Stainless Steel Products (SS Suffix) *(continued)*

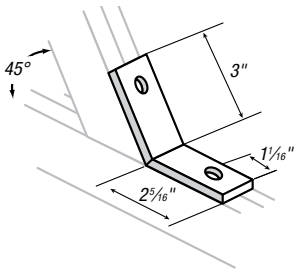




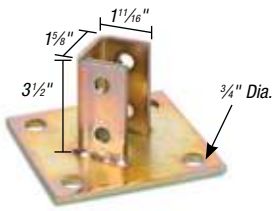

**AB220**



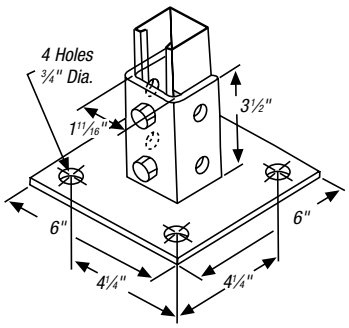

**AB225**



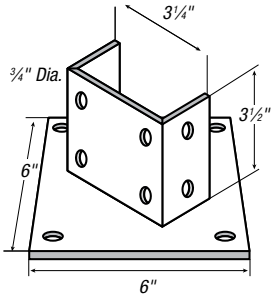

**SPAB-227**



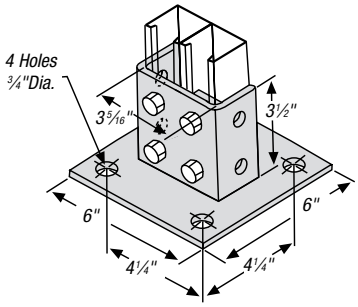

**AP-232**



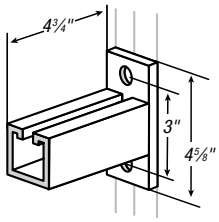

**AP-232SQ**



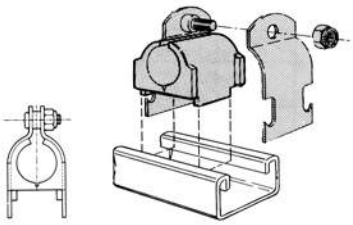

**AP-235**



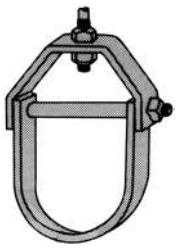

**AP-235SQ**



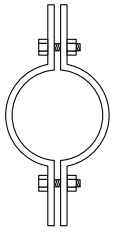

***S-250***
*A is in lengths: 6,12,18 & 24.*
*May be installed inverted with no change in load ratings. Strut section made from half slot channel.*



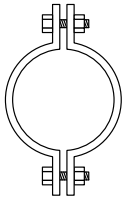
***A-716***
*Cushioned Clamp Tube Series*



***C-710 Series***
*Standard Clevis*



***C-720***



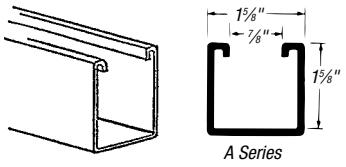
***C-725***



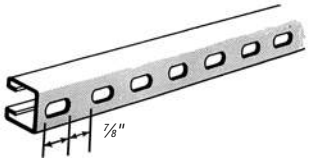
***C-727***
*Standard Ring Hanger*

## Special Metals and Finishes

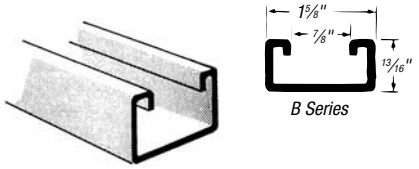
### White Painted Products (WH Suffix)



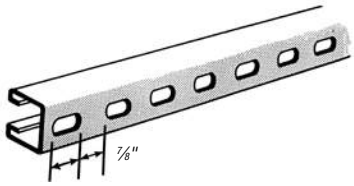

**A-1200**



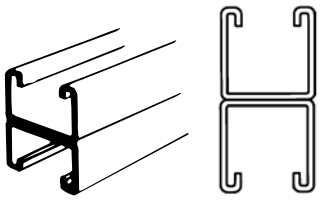

**A-1200-HS**



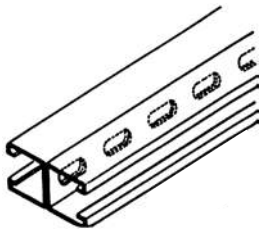

**B-1400**



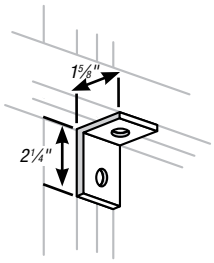

**B-1400-HS**



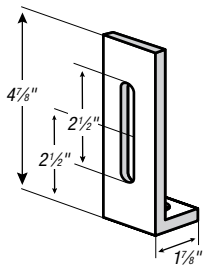
**A-1202**



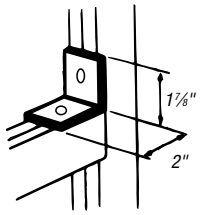
**A-1202-HS**



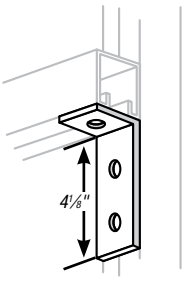

**AB201**



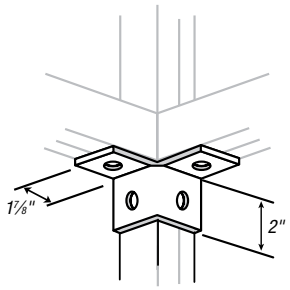

**X201**



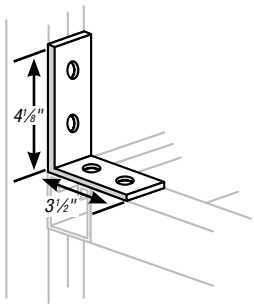

**AB219**




**AB203**




**AW204**




**AB205**



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800.816.7809
Fax: 901.252.1354

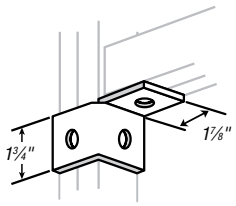
**Technical Services**
Tel: 888.862.3289

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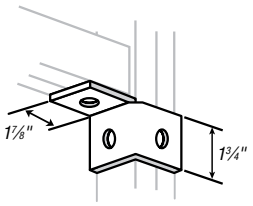
## Special Metals and Finishes

# White Painted Products (WH Suffix) *(continued)*

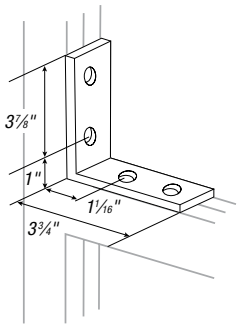




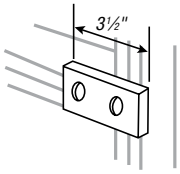

**AW205 L**



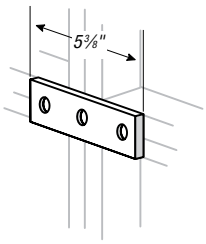

**AW-205-R**



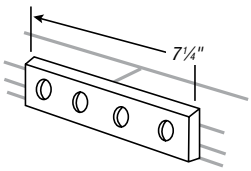

**N-205**



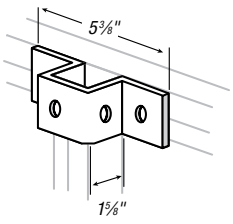

**AB-206**



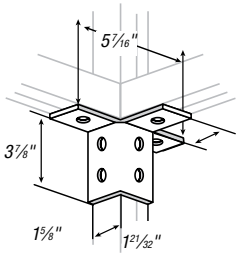

**AB-207**



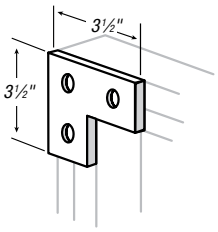

**X-207**



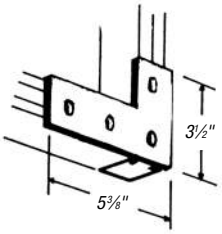

**A210**
*For attaching A Series channel*



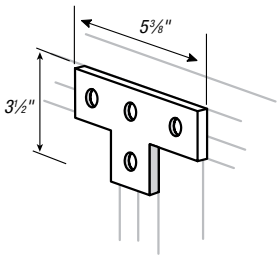

**A218**



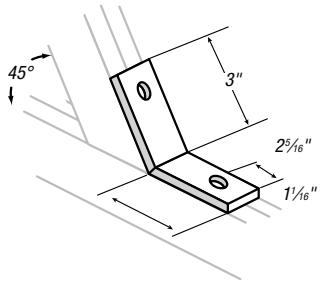

**AB-219**




**N-219**




**AB-220**




**AB-227-WH**

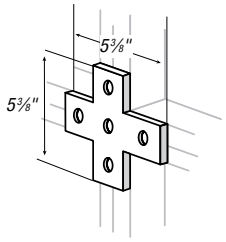
## Special Metals and Finishes

# White Painted Products (WH Suffix) *(continued)*

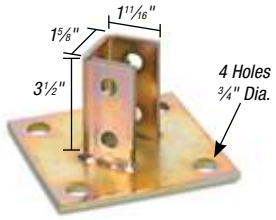


### AB-241

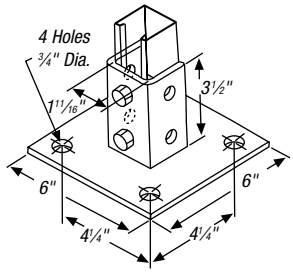
| CAT. NO. | ROD SIZE (IN.) | STD. CTN. |
|---|---|---|
| AB-241-1/4 | ¼ | 100 |
| AB-241-3/8 | ⅜ | 100 |
| AB-241-1/2 | ½ | 100 |



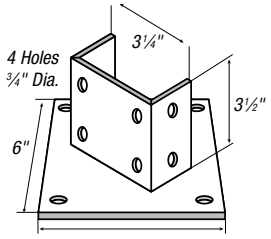

***AB253***



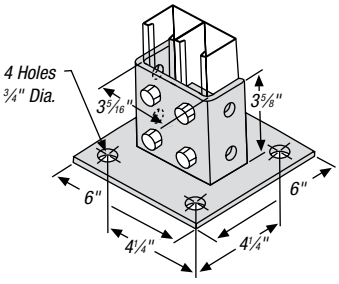

***AP-232***



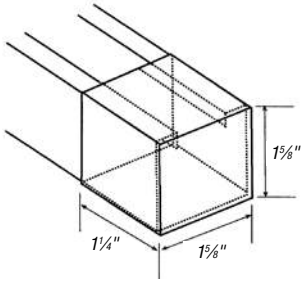

***AP-232SQ***



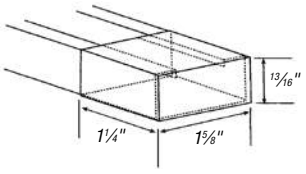

***AP-235***



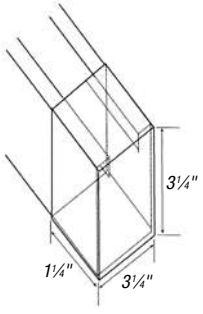

***AP-235SQ***



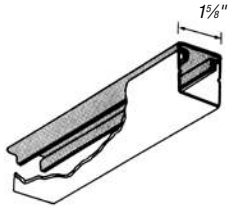

***A804 NEOP WH***
*1⅝" x 1⅝"*
*White Plastisol End-Cap*




***B 804 NEOP WH***
*1⅝" x ¹³⁄₁₆"*
*White End-Cap*




***H804 NEOP WH***
*1⅝" x 3¼"*
*White Plastisol End-Cap*




***SPAB-844-PC — WHITE***
*White Closure Strip*
*For all channels*



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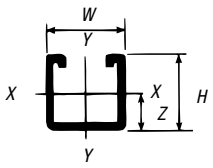
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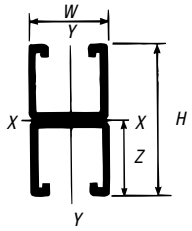
# Design Data — Metal Framing Channel



### Elements of Sections




*Single Channels*




*Double Channels*

### Nominal Thickness (IN.)

12 ga. = .105
14 ga. = .075
16 ga. = .060

**I** — Moment of Inertia
**S** — Section of Modulus
**r** — Radius of Gyration
**Z** — Nominal Axis
**A** — Area

### Table 1 — Properties for Design: Single Channel

| CAT. NO. | H IN. | W IN. | A IN.2 | X-X AXIS I IN.4 | X-X AXIS S IN.3 | X-X AXIS R IN. | X-X AXIS Z IN. | Y-Y AXIS I IN.4 | Y-Y AXIS S IN.3 | Y-Y AXIS R IN. |
|---|---|---|---|---|---|---|---|---|---|---|
| **A-1200** | 1.625 | 1.625 | .557 | .192 | .212 | .587 | .719 | .237 | .292 | .652 |
| **B-1200** | .813 | 1.625 | .381 | .031 | .063 | .283 | .331 | .137 | .168 | .600 |
| **C-1200** | 1.375 | 1.625 | .500 | .121 | .155 | .492 | .595 | .205 | .252 | .640 |
| **E-1200** | 2.438 | 1.625 | .726 | .529 | .399 | .853 | 1.112 | .335 | .413 | .679 |
| **H-1200** | 3.250 | 1.625 | .897 | 1.100 | .635 | 1.107 | 1.507 | .436 | .536 | .697 |
| **A-1400** | 1.625 | 1.625 | .401 | .134 | .146 | .577 | .707 | .184 | .226 | .677 |
| **B-1400** | .813 | 1.625 | .280 | .024 | .051 | .295 | .338 | .103 | .127 | .607 |

### Table 1 — Properties for Design: Double Channel

| CAT. NO. | H IN. | W IN. | A IN.2 | X-X AXIS I IN.4 | X-X AXIS S IN.3 | X-X AXIS R IN. | X-X AXIS Z IN. | Y-Y AXIS I IN.4 | Y-Y AXIS S IN.3 | Y-Y AXIS R IN. |
|---|---|---|---|---|---|---|---|---|---|---|
| **A-1202** | 3.250 | 1.625 | 1.114 | .948 | .583 | .992 | 1.625 | .474 | .584 | .652 |
| **B-1202** | 1.626 | 1.625 | .762 | .147 | .181 | .439 | .813 | .274 | .337 | .600 |
| **C-1202** | 2.750 | 1.625 | 1.000 | .595 | .433 | .772 | 1.375 | .409 | .504 | .640 |
| **E-1202** | 4.876 | 1.625 | 1.450 | 2.854 | 1.171 | 1.402 | 2.438 | .672 | .827 | .680 |
| **H-1202** | 6.500 | 1.625 | 1.794 | 6.273 | 1.930 | 1.870 | 3.250 | .871 | 1.072 | .697 |
| **A-1402** | 3.250 | 1.625 | .801 | .668 | .411 | .913 | 1.625 | .367 | .452 | .677 |
| **B-1402** | 1.626 | 1.625 | .560 | .112 | .138 | .447 | .813 | .206 | .254 | .607 |

### Table 2 — Load Ratings for ½" Strut Nuts used in Superstrut® Channel

| CHANNEL NO. | SLIP RESISTANCE (LBS.) | PULL-OUT STRENGTH (LBS.) |
|---|---|---|
| **A-1200** | 1,500 | 2,000 |
| **C-1200** | 1,500 | 2,000 |
| **B-1200** | 1,400 | 1,400 |
| **A-1400** | 1,000 | 1,400 |
| **B-1400** | 1,000 | 1,400 |

*Safety Factor of 3*

If connections will be subjected to dynamic or seismic loading conditions, contact Thomas & Betts Technical Services for design assistance.

## Design Data — Metal Framing Channel *(continued)*

# Design Loads for Channel Used as Beam or Column.

### Table 3

#### Beam Loads

Table 3 contains simple beam, uniformly-distributed loads calculated at 25,000 psi fiber stress. Beam loads are based on channel being loaded across the x-x axis. Loads are also listed at reduced deflections for long spans.

#### Maximum Loads @ 25,000 psi Stress

Maximum allowable deflections and maximum uniform loads for all spans @ 25,000 psi fiber stress.

#### Reduced Load for all 1/180 Span Deflection

For moderate deflections on the longer spans, reduced loads are listed which will produce a deflection equal to 1/180 of the span. When maximum loads do not induce deflections exceeding 1/180 x the span length, reduced loads are not required.

#### Reduced Load for 1/360 Span Deflection

For very slight deflections on the longer spans, reduced loads are listed which will produce a deflection equal to 1/360 of the span. When maximum loads do not induce deflections exceeding 1/360 x the span length, reduced loads are not required.

#### Concentrated Loads

To obtain values for concentrated loads from Table 3, multiply uniform load by .5 and deflection by 1.25.

#### Slotted, Punched or KO Channel

Reduce load rating 5%.

#### Long Span Deep Beams

Support in a manner to prevent rotation at supports and tie between supports to prevent twist.

#### Column Loads

Allowable column loads given are for uniform axial loading with pinned ends. For eccentric loading or other end conditions, reduce allowable loads according to standard engineering practice.

#### Dynamic Loads

Allowable dynamic loads may be calculated by dividing the static loads shown in Table 3, by 2.08.





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# Technical Information



## Table 3 — Single Channel

| CAT. NO. | DEPTH (IN.) | GA. | MAXIMUM UNIFORM LOAD | MAXIMUM UNIFORM DEFL. | 1/180 SPAN LOAD | 1/180 SPAN DEFL. | 1/360 SPAN LOAD | 1/360 SPAN DEFL. | COL. LOAD |
|---|---|---|---|---|---|---|---|---|---|
| ***12" Beam or Column*** | | | | | | | | | |
| **A-1200** | 1⅝ | 12 | 3,534 | .014 | — | .067 | — | .033 | 10,533 |
| **B-1200** | 13⁄16 | 12 | 1,050 | .026 | — | .067 | — | .033 | 6,683 |
| **C-1200** | 1⅜ | 12 | 2,584 | .016 | — | .067 | — | .033 | 9,345 |
| **E-1200** | 2 7⁄16 | 12 | 6,650 | .010 | — | .067 | — | .033 | 13,830 |
| **H-1200** | 3¼ | 12 | 10,583 | .008 | — | .067 | — | .033 | 17,106 |
| **A-1400** | 1⅝ | 14 | 2,434 | .015 | — | .067 | — | .033 | 7,575 |
| **B-1400** | 13⁄16 | 14 | 850 | .028 | — | .067 | — | .033 | 4,950 |
| ***18" Beam or Column*** | | | | | | | | | |
| **A-1200** | 1⅝ | 12 | 2,355 | .033 | — | .100 | — | .050 | 10,210 |
| **B-1200** | 13⁄16 | 12 | 700 | .059 | — | .100 | — | .050 | 6,058 |
| **C-1200** | 1⅜ | 12 | 1,723 | .038 | — | .100 | — | .050 | 8,970 |
| **E-1200** | 2 7⁄16 | 12 | 4,434 | .023 | — | .100 | — | .050 | 13,482 |
| **H-1200** | 3¼ | 12 | 7,055 | .016 | — | .100 | — | .050 | 16,693 |
| **A-1400** | 1⅝ | 14 | 1,623 | .031 | — | .100 | — | .050 | 7,334 |
| **B-1400** | 13⁄16 | 14 | 566 | .063 | — | .100 | 453 | .050 | 4,150 |
| ***24" Beam or Column*** | | | | | | | | | |
| **A-1200** | 1⅝ | 12 | 1,766 | .058 | — | .133 | — | .067 | 9,842 |
| **B-1200** | 13⁄16 | 12 | 525 | .105 | — | .133 | 333 | .067 | 5,315 |
| **C-1200** | 1⅜ | 12 | 1,291 | .066 | — | .133 | — | .067 | 8,545 |
| **E-1200** | 2 7⁄16 | 12 | 3,325 | .039 | — | .133 | — | .067 | 13,082 |
| **H-1200** | 3¼ | 12 | 5,291 | .030 | — | .133 | — | .067 | 16,277 |
| **A-1400** | 1⅝ | 14 | 1,216 | .056 | — | .133 | — | .067 | 7,058 |
| **B-1400** | 13⁄16 | 14 | 425 | .110 | — | .133 | 258 | .067 | 4,000 |
| ***30" Beam or Column*** | | | | | | | | | |
| **A-1200** | 1⅝ | 12 | 1,414 | .089 | — | .167 | — | .083 | 9,419 |
| **B-1200** | 13⁄16 | 12 | 420 | .164 | — | .167 | 266 | .083 | 4,465 |
| **C-1200** | 1⅜ | 12 | 1,034 | .104 | — | .167 | 1,040 | .083 | 8,060 |
| **E-1200** | 2 7⁄16 | 12 | 2,660 | .063 | — | .167 | — | .083 | 12,640 |
| **H-1200** | 3¼ | 12 | 4,234 | .046 | — | .167 | — | .083 | 15,698 |
| **A-1400** | 1⅝ | 14 | 974 | .088 | — | .167 | — | .083 | 6,753 |
| **B-1400** | 13⁄16 | 14 | 340 | .172 | — | .167 | 165 | .083 | 3,420 |

*When no numbers are shown, use the maximum uniform load.*

*Deflections are given in inches; loads in lbs.*

## Design Data — Metal Framing Channel *(continued)*

**Table 3 — Double Channel (Single Channels Welded Back-to-Back)**

| CAT. NO. | DEPTH (IN.) | GA. | MAXIMUM UNIFORM LOAD | MAXIMUM UNIFORM DEFL. | 1/180 SPAN LOAD | 1/180 SPAN DEFL. | 1/360 SPAN LOAD | 1/360 SPAN DEFL. | COL. LOAD |
|---|---|---|---|---|---|---|---|---|---|
| ***12" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | — | .008 | — | .067 | — | .033 | 21,177 |
| **B-1202** | 1⅝ | 12 | 3,016 | .016 | — | .067 | — | .033 | 14,110 |
| **C-1202** | 2¾ | 12 | — | .010 | — | .067 | — | .033 | 18,990 |
| **E-1202** | 4⅞ | 12 | — | .005 | — | .067 | — | .033 | 27,623 |
| **H-1202** | 6½ | 12 | — | .004 | — | .067 | — | .033 | 34,210 |
| **A-1402** | 3¼ | 14 | — | .008 | — | .067 | — | .033 | 15,250 |
| **B-1402** | 1⅝ | 14 | 2,300 | .016 | — | .067 | — | .033 | 10,390 |
| ***18" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | — | .018 | — | .100 | — | .050 | 20,609 |
| **B-1202** | 1⅝ | 12 | 2,011 | .036 | — | .100 | — | .050 | 13,440 |
| **C-1202** | 2¾ | 12 | 4,811 | .021 | — | .100 | — | .050 | 18,470 |
| **E-1202** | 4⅞ | 12 | — | .013 | — | .100 | — | .050 | 16,926 |
| **H-1202** | 6½ | 12 | — | .009 | — | .100 | — | .050 | 33,390 |
| **A-1402** | 3¼ | 14 | — | .018 | — | .100 | — | .050 | 14,867 |
| **B-1402** | 1⅝ | 14 | 1,534 | .036 | — | .100 | — | .050 | 9,910 |
| ***24" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | 4,858 | .031 | — | .133 | — | .067 | 19,974 |
| **B-1202** | 1⅝ | 12 | 1,509 | .064 | — | .133 | — | .067 | 12,670 |
| **C-1202** | 2¾ | 12 | 3,609 | .038 | — | .133 | — | .067 | 17,890 |
| **E-1202** | 4⅞ | 12 | — | .021 | — | .133 | — | .067 | 26,143 |
| **H-1202** | 6½ | 12 | — | .016 | — | .133 | — | .067 | 32,435 |
| **A-1402** | 3¼ | 14 | 3,425 | .033 | — | .133 | — | .067 | 14,426 |
| **B-1402** | 1⅝ | 14 | 1,150 | .064 | — | .133 | — | .067 | 9,350 |
| ***30" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | 3,886 | .049 | — | .167 | — | .083 | 19,261 |
| **B-1202** | 1⅝ | 12 | 1,206 | .100 | — | .167 | — | .083 | 11,803 |
| **C-1202** | 2¾ | 12 | 2,886 | .059 | — | .167 | — | .083 | 17,230 |
| **E-1202** | 4⅞ | 12 | 7,806 | .034 | — | .167 | — | .083 | 25,259 |
| **H-1202** | 6½ | 12 | | .025 | — | .167 | — | .083 | 31,395 |
| **A-1402** | 3¼ | 14 | 2,740 | .050 | — | .167 | — | .083 | 13,937 |
| **B-1402** | 1⅝ | 14 | 920 | .100 | — | .167 | — | .083 | 8,730 |

*When no numbers are shown, use the maximum uniform load.*

*Deflections are given in inches; loads in lbs.*



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# Technical Information



## Table 3 — Single Channel

| CAT. NO. | DEPTH (IN.) | GA. | MAXIMUM UNIFORM LOAD | MAXIMUM UNIFORM DEFL. | 1/180 SPAN LOAD | 1/180 SPAN DEFL. | 1/360 SPAN LOAD | 1/360 SPAN DEFL. | COL. LOAD |
|---|---|---|---|---|---|---|---|---|---|
| **A-1200** | 1⅝ | 12 | 1,178 | .129 | — | .200 | 917 | .100 | 8,962 |
| **B-1200** | 13/16 | 12 | 350 | .236 | — | .200 | 148 | .100 | 3,498 |
| **C-1200** | 1⅜ | 12 | 861 | .149 | — | .200 | 578 | .100 | 7,525 |
| **E-1200** | 2 7/16 | 12 | 2,216 | .088 | — | .200 | — | .100 | 12,160 |
| **H-1200** | 3¼ | 12 | 3,528 | .068 | — | .200 | — | .100 | 15,132 |
| **A-1400** | 1⅝ | 14 | 811 | .126 | — | .200 | 640 | .100 | 6,416 |
| **B-1400** | 13/16 | 14 | 284 | .248 | — | .200 | 115 | .100 | 2,755 |
| ***42" Beam or Column*** | | | | | | | | | |
| **A-1200** | 1⅝ | 12 | 1,010 | .175 | — | .233 | 674 | .117 | 8,466 |
| **B-1200** | 13/16 | 12 | 300 | .323 | 217 | .233 | 109 | .117 | 2,579 |
| **C-1200** | 1⅜ | 12 | 738 | .203 | — | .233 | 425 | .117 | 6,945 |
| **E-1200** | 2 7/16 | 12 | 1,900 | .120 | — | .233 | — | .117 | 11,698 |
| **H-1200** | 3¼ | 12 | 3,024 | .091 | — | .233 | — | .117 | 14,514 |
| **A-1400** | 1⅝ | 14 | 695 | .160 | — | .233 | 470 | .117 | 6,051 |
| **B-1400** | 13/16 | 14 | 243 | .336 | 168 | .233 | 84 | .117 | 2,060 |
| ***48" Beam or Column*** | | | | | | | | | |
| **A-1200** | 1⅝ | 12 | 884 | .228 | — | .267 | 516 | .133 | 7,943 |
| **B-1200** | 13/16 | 12 | 263 | .420 | 167 | .267 | 83 | .133 | 1,981 |
| **C-1200** | 1⅜ | 12 | 646 | .265 | — | .267 | 325 | .133 | 6,325 |
| **E-1200** | 2 7/16 | 12 | 1,663 | .156 | — | .267 | — | .133 | 11,092 |
| **H-1200** | 3¼ | 12 | 2,646 | .120 | — | .267 | — | .133 | 13,850 |
| **A-1400** | 1⅝ | 14 | 609 | .120 | — | .267 | 360 | .133 | 5,658 |
| **B-1400** | 13/16 | 14 | 213 | .440 | 129 | .267 | 64 | .133 | 1,580 |
| ***54" Beam or Column*** | | | | | | | | | |
| **A-1200** | 1⅝ | 12 | 785 | .289 | — | .300 | 408 | .150 | 7,369 |
| **B-1200** | 13/16 | 12 | 234 | .533 | 132 | .300 | 66 | .150 | 1,555 |
| **C-1200** | 1⅜ | 12 | 574 | .335 | — | .300 | 257 | .150 | 5,650 |
| **E-1200** | 2 7/16 | 12 | 1,478 | .198 | — | .300 | 1,123 | .150 | 10,505 |
| **H-1200** | 3¼ | 12 | 2,351 | .151 | — | .300 | — | .150 | 13,150 |
| **A-1400** | 1⅝ | 14 | 541 | .286 | — | .300 | 284 | .150 | 5,241 |
| **B-1400** | 13/16 | 14 | 189 | .556 | 102 | .300 | 51 | .150 | 1,250 |

*When no numbers are shown, use the maximum uniform load.*

*Deflections are given in inches; loads in lbs.*

## Design Data — Metal Framing Channel *(continued)*

**Table 3 — Double Channel (Single Channels Welded Back-to-Back)**

| CAT. NO. | DEPTH (IN.) | GA. | MAXIMUM UNIFORM LOAD | MAXIMUM UNIFORM DEFL. | 1/180 SPAN LOAD | 1/180 SPAN DEFL. | 1/360 SPAN LOAD | 1/360 SPAN DEFL. | COL. LOAD |
|---|---|---|---|---|---|---|---|---|---|
| ***36" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | 3,239 | .071 | — | .200 | — | .100 | 18,470 |
| **B-1202** | 1⅝ | 12 | 1,005 | .144 | — | .200 | 702 | .100 | 10,840 |
| **C-1202** | 2¾ | 12 | 2,400 | .085 | — | .200 | — | .100 | 16,500 |
| **E-1202** | 4⅞ | 12 | 6,505 | .048 | — | .200 | — | .100 | 24,316 |
| **H-1202** | 6½ | 12 | | .036 | — | .200 | — | .100 | 30,265 |
| **A-1402** | 3¼ | 14 | 2,284 | .071 | — | .200 | — | .100 | 13,416 |
| **B-1402** | 1⅝ | 14 | 766 | .144 | — | .200 | 535 | .100 | 8,050 |
| ***42" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | 2,776 | .098 | — | .233 | — | .117 | 17,635 |
| **B-1202** | 1⅝ | 12 | 863 | .195 | — | .233 | 516 | .117 | 9,790 |
| **C-1202** | 2¾ | 12 | 2,063 | .115 | — | .233 | — | .117 | 15,730 |
| **E-1202** | 4⅞ | 12 | 5,576 | .065 | — | .233 | — | .117 | 23,272 |
| **H-1202** | 6½ | 12 | 9,190 | .049 | — | .233 | — | .117 | 29,025 |
| **A-1402** | 3¼ | 14 | 1,958 | .225 | — | .233 | — | .117 | 12,832 |
| **B-1402** | 1⅝ | 14 | 658 | .195 | — | .233 | 393 | .117 | 7,300 |
| ***48" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | 2,429 | .128 | — | .267 | — | .133 | 16,730 |
| **B-1202** | 1⅝ | 12 | 754 | .255 | — | .267 | 395 | .133 | 8,640 |
| **C-1202** | 2¾ | 12 | 1,804 | .151 | — | .267 | — | .133 | 14,890 |
| **E-1202** | 4⅞ | 12 | 4,879 | .085 | — | .267 | — | .133 | 22,170 |
| **H-1202** | 6½ | 12 | 8,041 | .064 | — | .267 | — | .133 | 27,700 |
| **A-1402** | 3¼ | 14 | 1,713 | .128 | — | .267 | — | .133 | 12,223 |
| **B-1402** | 1⅝ | 14 | 575 | .255 | — | .267 | 301 | .133 | 6,480 |
| ***54" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | 2,159 | .161 | — | .300 | — | .150 | 15,763 |
| **B-1202** | 1⅝ | 12 | 670 | .323 | — | .300 | 312 | .150 | 7,405 |
| **C-1202** | 2¾ | 12 | 1,604 | .190 | — | .300 | 1,263 | .150 | 13,990 |
| **E-1202** | 4⅞ | 12 | 4,338 | .108 | — | .300 | — | .150 | 20,980 |
| **H-1202** | 6½ | 12 | 7,149 | .081 | — | .300 | — | .150 | 16,280 |
| **A-1402** | 3¼ | 14 | 1,523 | .161 | — | .300 | — | .150 | 11,566 |
| **B-1402** | 1⅝ | 14 | 511 | .323 | — | .300 | 238 | .150 | 5,580 |

*When no numbers are shown, use the maximum uniform load.*

*Deflections are given in inches; loads in lbs.*



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# Technical Information



## Table 3 — Single Channel

| CAT. NO. | DEPTH (IN.) | GA. | MAXIMUM UNIFORM LOAD | MAXIMUM UNIFORM DEFL. | 1/180 SPAN LOAD | 1/180 SPAN DEFL. | 1/360 SPAN LOAD | 1/360 SPAN DEFL. | COL. LOAD |
|---|---|---|---|---|---|---|---|---|---|
| ***60" Beam or Column*** | | | | | | | | | |
| **A-1200** | 1⅝ | 12 | 706 | .358 | — | .333 | 330 | .167 | 6,762 |
| **B-1200** | 13/16 | 12 | 210 | .658 | 107 | .333 | 53 | .167 | — |
| **C-1200** | 1⅜ | 12 | 516 | .414 | — | .333 | 208 | .167 | 4,920 |
| **E-1200** | 2 7/16 | 12 | 1,330 | .244 | — | .333 | 909 | .167 | 9,874 |
| **H-1200** | 3¼ | 12 | 2,116 | .186 | — | .333 | — | .167 | 12,406 |
| **A-1400** | 1⅝ | 14 | 486 | .353 | — | .333 | 231 | .167 | 4,792 |
| **B-1400** | 13/16 | 14 | 170 | .687 | 82 | .333 | 41 | .167 | — |
| ***66" Beam or Column*** | | | | | | | | | |
| **A-1200** | 1⅝ | 12 | 643 | .432 | — | .367 | 273 | .183 | 6,127 |
| **B-1200** | 13/16 | 12 | 191 | .795 | 88 | .367 | 44 | .183 | — |
| **C-1200** | 1⅜ | 12 | 470 | .501 | 344 | .367 | 172 | .183 | 4,145 |
| **E-1200** | 2 7/16 | 12 | 1,210 | .295 | — | .367 | 753 | .183 | 9,211 |
| **H-1200** | 3¼ | 12 | 1,924 | .226 | — | .367 | — | .183 | 11,616 |
| **A-1400** | 1⅝ | 14 | 443 | .426 | — | .367 | 190 | .183 | 4,311 |
| **B-1400** | 13/16 | 14 | 155 | .831 | 68 | .367 | 35 | .183 | — |
| ***72" Beam or Column*** | | | | | | | | | |
| **A-1200** | 1⅝ | 12 | 589 | .514 | 459 | .400 | 299 | .200 | 5,436 |
| **B-1200** | 13/16 | 12 | 175 | .946 | 74 | .400 | 37 | .200 | — |
| **C-1200** | 1⅜ | 12 | 430 | .595 | 289 | .400 | 144 | .200 | 3,485 |
| **E-1200** | 2 7/16 | 12 | 1,108 | .351 | — | .400 | 632 | .200 | 8,509 |
| **H-1200** | 3¼ | 12 | 1,839 | .269 | — | .400 | 1,313 | .200 | 10,782 |
| **A-1400** | 1⅝ | 14 | 405 | .506 | 320 | .400 | 160 | .200 | 3,809 |
| **B-1400** | 13/16 | 14 | 141 | .989 | 57 | .400 | 29 | 200 | — |
| ***84" Beam or Column*** | | | | | | | | | |
| **A-1200** | 1⅝ | 12 | 505 | .700 | 337 | .467 | 168 | .233 | 4,061 |
| **B-1200** | 13/16 | 12 | — | — | 54 | .467 | 27 | .233 | — |
| **C-1200** | 1⅜ | 12 | 369 | .811 | 212 | .467 | 106 | .233 | 2,565 |
| **E-1200** | 2 7/16 | 12 | 950 | .479 | — | .467 | 464 | .233 | 6,991 |
| **H-1200** | 3¼ | 12 | 1,513 | .366 | — | .467 | 965 | .233 | 8,988 |
| **A-1400** | 1⅝ | 14 | 348 | .691 | 235 | .467 | 118 | .233 | 2,827 |
| **B-1400** | 13/16 | 14 | — | — | 42 | .467 | 21 | .233 | — |

*When no numbers are shown, use the maximum uniform load.*

*Deflections are given in inches; loads in lbs.*

## Design Data — Metal Framing Channel *(continued)*

**Table 3 — Double Channel (Single Channels Welded Back-to-Back)**

| CAT. NO. | DEPTH (IN.) | GA. | MAXIMUM UNIFORM LOAD | MAXIMUM UNIFORM DEFL. | 1/180 SPAN LOAD | 1/180 SPAN DEFL. | 1/360 SPAN LOAD | 1/360 SPAN DEFL. | COL. LOAD |
|---|---|---|---|---|---|---|---|---|---|
| ***60" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | 1,944 | .199 | — | .333 | — | .167 | 14,738 |
| **B-1202** | 1⅝ | 12 | 604 | .398 | — | .333 | 253 | .167 | 6,100 |
| **C-1202** | 2¾ | 12 | 1,444 | .235 | — | .333 | 1,023 | .167 | 13,050 |
| **E-1202** | 4⅞ | 12 | 3,904 | .133 | — | .333 | — | .167 | 19,734 |
| **H-1202** | 6½ | 12 | 6,434 | .100 | — | .333 | — | .167 | 24,810 |
| **A-1402** | 3¼ | 14 | 1,370 | .199 | — | .333 | — | .167 | 10,878 |
| **B-1402** | 1⅝ | 14 | 460 | .399 | — | .333 | 193 | .167 | 4,640 |
| ***66" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | 1,766 | .240 | — | .367 | 1,347 | .183 | 13,646 |
| **B-1202** | 1⅝ | 12 | 549 | .481 | 418 | .367 | 209 | .183 | 5,055 |
| **C-1202** | 2¾ | 12 | 1,313 | .285 | — | .367 | 846 | .183 | 12,030 |
| **E-1202** | 4⅞ | 12 | 3,549 | .180 | — | .367 | — | .183 | 18,415 |
| **H-1202** | 6½ | 12 | 5,849 | .120 | — | .367 | — | .183 | 23,230 |
| **A-1402** | 3¼ | 14 | 1,245 | .241 | — | .367 | 949 | .183 | 10,133 |
| **B-1402** | 1⅝ | 14 | 419 | .483 | 318 | .367 | 159 | .183 | 3,840 |
| ***72" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | 1,620 | .286 | — | .400 | 1,132 | .200 | 12,500 |
| **B-1202** | 1⅝ | 12 | 503 | .574 | 351 | .400 | 176 | .200 | 4,230 |
| **C-1202** | 2¾ | 12 | 1,203 | .339 | — | .400 | 710 | .200 | 10,980 |
| **E-1202** | 4⅞ | 12 | 3,253 | .191 | — | .400 | — | .200 | 17,023 |
| **H-1202** | 6½ | 12 | 5,361 | .143 | — | .400 | — | .200 | 21,560 |
| **A-1402** | 3¼ | 14 | 1,141 | .286 | — | .400 | 798 | .200 | 9,340 |
| **B-1402** | 1⅝ | 14 | 384 | .574 | 267 | .400 | 134 | .200 | 3,220 |
| ***84" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | 1,388 | .390 | — | .467 | 832 | .233 | 9,992 |
| **B-1202** | 1⅝ | 12 | 431 | .780 | 258 | .467 | 129 | .233 | 3,100 |
| **C-1202** | 2¾ | 12 | 1,031 | .461 | — | .467 | 522 | .233 | 8,670 |
| **E-1202** | 4⅞ | 12 | 2,788 | .260 | — | .467 | — | .233 | 13,993 |
| **H-1202** | 6½ | 12 | 4,595 | .195 | — | .467 | — | .233 | 17,975 |
| **A-1402** | 3¼ | 14 | 979 | .390 | — | .467 | 586 | .233 | 7,682 |
| **B-1402** | 1⅝ | 14 | 329 | .781 | 197 | .467 | 98 | .233 | 2,370 |

*When no numbers are shown, use the maximum uniform load.*

*Deflections are given in inches; loads in lbs.*



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# Technical Information



## Table 3 — Single Channel

| CAT. NO. | DEPTH (IN.) | GA. | MAXIMUM UNIFORM LOAD | MAXIMUM UNIFORM DEFL. | 1/180 SPAN LOAD | 1/180 SPAN DEFL. | 1/360 SPAN LOAD | 1/360 SPAN DEFL. | COL. LOAD |
|---|---|---|---|---|---|---|---|---|---|
| ***96" Beam or Column*** | | | | | | | | | |
| **A-1200** | 1⅝ | 12 | 441 | .914 | 258 | .533 | 129 | .267 | 3,108 |
| **B-1200** | 13/16 | 12 | — | — | 42 | .533 | 21 | .267 | — |
| **C-1200** | 1⅜ | 12 | 323 | 1.059 | 163 | .533 | 81 | .267 | 1,960 |
| **E-1200** | 2 7/16 | 12 | 831 | .730 | — | .533 | 355 | .267 | 5,423 |
| **H-1200** | 3¼ | 12 | 1,323 | .478 | — | .533 | 739 | .267 | 7,059 |
| **A-1400** | 1⅝ | 14 | 304 | .903 | 180 | .533 | 90 | .267 | 2,615 |
| **B-1400** | 13/16 | 14 | — | — | 32 | .533 | 16 | .267 | — |
| ***108" Beam or Column*** | | | | | | | | | |
| **A-1200** | 1⅝ | 12 | 393 | 1.156 | 204 | .600 | 102 | .300 | 2,456 |
| **B-1200** | 13/16 | 12 | — | — | 33 | .600 | 16 | .300 | — |
| **C-1200** | 1⅜ | 12 | 288 | 1.350 | 128 | .600 | 64 | .300 | — |
| **E-1200** | 2 7/16 | 12 | 739 | .790 | 561 | .600 | 281 | .300 | 4,291 |
| **H-1200** | 3¼ | 12 | 1,176 | .605 | — | .600 | 584 | .300 | 5,579 |
| **A-1400** | 1⅝ | 14 | 270 | 1.141 | 142 | .600 | 71 | .300 | 1,708 |
| **B-1400** | 13/16 | 14 | — | — | 25 | .600 | 13 | .300 | — |
| ***120" Beam or Column*** | | | | | | | | | |
| **A-1200** | 1⅝ | 12 | 354 | 1.425 | 165 | .667 | 83 | .333 | — |
| **B-1200** | 13/16 | 12 | — | — | 27 | .667 | 13 | .333 | — |
| **C-1200** | 1⅜ | 12 | 259 | 1.663 | 104 | .667 | 52 | .333 | — |
| **E-1200** | 2 7/16 | 12 | 665 | .976 | 455 | .667 | 227 | .333 | 3,478 |
| **H-1200** | 3¼ | 12 | 1,059 | .746 | — | .667 | 473 | .333 | 4,521 |
| **A-1400** | 1⅝ | 14 | 244 | 1.413 | 114 | .667 | 57 | .333 | — |
| **B-1400** | 13/16 | 14 | — | — | 21 | .667 | 10 | .333 | — |
| ***144" Beam or Column*** | | | | | | | | | |
| **A-1200** | 1⅝ | 12 | — | — | 115 | .800 | 57 | .400 | — |
| **C-1200** | 1⅜ | 12 | — | — | 72 | .800 | 36 | .400 | — |
| **E-1200** | 2 7/16 | 12 | 554 | 1.400 | 315 | .800 | 158 | .400 | — |
| **H-1200** | 3¼ | 12 | 883 | 1.075 | 657 | .800 | 328 | .400 | — |
| **A-1400** | 1⅝ | 14 | — | — | 80 | .800 | 40 | .400 | — |

*When no numbers are shown, use the maximum uniform load.*

*Deflections are given in inches; loads in lbs.*

## Design Data — Metal Framing Channel *(continued)*

**Table 3 — Double Channel (Single Channels Welded Back-to-Back)**

| CAT. NO. | DEPTH (IN.) | GA. | MAXIMUM UNIFORM LOAD | MAXIMUM UNIFORM DEFL. | 1/180 SPAN LOAD | 1/180 SPAN DEFL. | 1/360 SPAN LOAD | 1/360 SPAN DEFL. | COL. LOAD |
|---|---|---|---|---|---|---|---|---|---|
| ***96" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | 1,215 | .509 | — | .533 | 637 | .267 | 7,675 |
| **B-1202** | 1⅝ | 12 | 378 | 1.019 | 197 | .533 | 99 | .267 | — |
| **C-1202** | 2¾ | 12 | 903 | .603 | — | .533 | 400 | .267 | 6,640 |
| **E-1202** | 4⅞ | 12 | 2,440 | .340 | — | .533 | 1,917 | .267 | 10,875 |
| **H-1202** | 6½ | 12 | 4,021 | .255 | — | .533 | — | .267 | 14,120 |
| **A-1402** | 3¼ | 14 | 856 | .509 | — | .533 | 449 | .267 | 5,951 |
| **B-1402** | 1⅝ | 14 | 288 | 1.020 | 150 | .533 | 75 | .267 | — |
| ***108" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | 1,080 | .644 | — | .600 | 503 | .300 | 6,071 |
| **B-1202** | 1⅝ | 12 | 355 | 1.290 | 156 | .600 | 78 | .300 | — |
| **C-1202** | 2¾ | 12 | 801 | .763 | 632 | .600 | 316 | .300 | 5,250 |
| **E-1202** | 4⅞ | 12 | 2,169 | .430 | — | .600 | 1,515 | .300 | 8,599 |
| **H-1202** | 6½ | 12 | 3,574 | .323 | — | .600 | — | .300 | 11,160 |
| **A-1402** | 3¼ | 14 | 761 | .644 | — | .600 | 355 | .300 | 4,702 |
| **B-1402** | 1⅝ | 14 | 255 | 1.290 | 119 | .600 | 59 | .300 | — |
| ***120" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | 971 | .795 | — | .667 | 408 | .333 | — |
| **B-1202** | 1⅝ | 12 | 301 | 1.588 | 126 | .667 | 63 | .333 | — |
| **C-1202** | 2¾ | 12 | 721 | .941 | 512 | .667 | 256 | .333 | 4,250 |
| **E-1202** | 4⅞ | 12 | 1,951 | .531 | — | .667 | 1,227 | .333 | 6,946 |
| **H-1202** | 6½ | 12 | 3,216 | .398 | — | .667 | — | .333 | 9,040 |
| **A-1402** | 3¼ | 14 | 685 | .796 | — | .667 | 287 | .333 | 3,805 |
| **B-1402** | 1⅝ | 14 | 230 | 1.600 | 96 | .667 | 48 | .333 | — |
| ***144" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | 810 | 1.145 | 566 | .800 | 283 | .400 | — |
| **B-1202** | 1⅝ | 12 | — | — | 88 | .800 | 44 | .400 | — |
| **C-1202** | 2¾ | 12 | 601 | 1.350 | 355 | .800 | 178 | .400 | — |
| **E-1202** | 4⅞ | 12 | 1,626 | .764 | — | .800 | 852 | .400 | — |
| **H-1202** | 6½ | 12 | 2,680 | .573 | — | .800 | 1,873 | .400 | — |
| **A-1402** | 3¼ | 14 | 571 | 1.146 | 399 | .800 | 199 | .400 | — |
| **B-1402** | 1⅝ | 14 | — | — | 67 | .800 | 33 | .400 | — |

*When no numbers are shown, use the maximum uniform load.*

*Deflections are given in inches; loads in lbs.*



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# Technical Information



## Table 3 — Single Channel

| CAT. NO. | DEPTH (IN.) | GA. | MAXIMUM UNIFORM LOAD | MAXIMUM UNIFORM DEFL. | 1/180 SPAN LOAD | 1/180 SPAN DEFL. | 1/360 SPAN LOAD | 1/360 SPAN DEFL. | COL. LOAD |
|---|---|---|---|---|---|---|---|---|---|
| ***168" Beam or Column*** | | | | | | | | | |
| **A-1200** | 1⅝ | 12 | — | — | 84 | .933 | 42 | .467 | — |
| **C-1200** | 1⅜ | 12 | — | — | 53 | .933 | 27 | .467 | — |
| **E-1200** | 2⁷⁄₁₆ | 12 | 475 | 1.912 | 233 | .933 | 116 | .467 | — |
| **H-1200** | 3¼ | 12 | 756 | 1.463 | 482 | .933 | 241 | .467 | — |
| **A-1400** | 1⅝ | 14 | — | — | 60 | .933 | 30 | .467 | — |
| ***192" Beam or Column*** | | | | | | | | | |
| **E-1200** | 2⁷⁄₁₆ | 12 | — | — | 178 | 1.07 | 89 | .533 | — |
| **H-1200** | 3¼ | 12 | 661 | 1.910 | 369 | 1.07 | 185 | .533 | — |
| ***216" Beam or Column*** | | | | | | | | | |
| **E-1200** | 2⁷⁄₁₆ | 12 | — | — | 140 | 1.20 | 70 | .600 | — |
| **H-1200** | 3¼ | 12 | — | — | 292 | 1.20 | 146 | .600 | — |
| ***240" Beam or Column*** | | | | | | | | | |
| **E-1200** | 2⁷⁄₁₆ | 12 | — | — | 114 | .334 | 57 | .667 | — |
| **H-1200** | 3¼ | 12 | — | — | 236 | .334 | 118 | .667 | — |

*When no numbers are shown, use the maximum uniform load.*

*Deflections are given in inches; loads in lbs.*

## Design Data — Metal Framing Channel *(continued)*

**Table 3 — Double Channel (Single Channels Welded Back-to-Back)**

| CAT. NO. | DEPTH (IN.) | GA. | MAXIMUM UNIFORM LOAD | MAXIMUM UNIFORM DEFL. | 1/180 SPAN LOAD | 1/180 SPAN DEFL. | 1/360 SPAN LOAD | 1/360 SPAN DEFL. | COL. LOAD |
|---|---|---|---|---|---|---|---|---|---|
| ***168" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | 694 | 1.563 | 916 | .933 | 208 | .467 | — |
| **B-1202** | 1⅝ | 12 | — | — | 64 | .933 | 32 | .467 | — |
| **C-1202** | 2¾ | 12 | 515 | 1.850 | 261 | .933 | 130 | .467 | — |
| **E-1202** | 4⅞ | 12 | 1,394 | 1.040 | 1,255 | .933 | 626 | .467 | — |
| **H-1202** | 6½ | 12 | 2,298 | .780 | — | .933 | 1,326 | .467 | — |
| **A-1402** | 3¼ | 14 | 489 | 1.563 | 293 | .933 | 147 | .467 | — |
| **B-1402** | 1⅝ | 14 | — | — | 49 | .933 | 25 | .467 | — |
| ***192" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | — | — | 318 | 1.07 | 159 | .533 | — |
| **—** | — | — | — | — | — | — | — | — | — |
| **C-1202** | 2¾ | 12 | — | — | 200 | 1.07 | 100 | .533 | — |
| **E-1202** | 4⅞ | 12 | 1,220 | 1.363 | 958 | 1.07 | 479 | .533 | — |
| **H-1202** | 6½ | 12 | 2,010 | 1.019 | — | 1.07 | 1,053 | .533 | — |
| **A-1402** | 3¼ | 14 | — | — | 224 | 1.07 | 112 | .533 | — |
| **—** | — | — | — | — | — | — | — | — | — |
| ***216" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | — | — | 252 | 1.20 | 126 | .600 | — |
| **—** | — | — | — | — | — | — | — | — | — |
| **C-1202** | 2¾ | 12 | — | — | 158 | 1.20 | 79 | .600 | — |
| **E-1202** | 4⅞ | 12 | 1,084 | 1.725 | 757 | 1.20 | 379 | .600 | — |
| **H-1202** | 6½ | 12 | 1,788 | 1.288 | — | 1.20 | 832 | .600 | — |
| **A-1402** | 3¼ | 14 | — | — | 177 | 1.20 | 89 | .600 | — |
| **—** | — | — | — | — | — | — | — | — | — |
| ***240" Beam or Column*** | | | | | | | | | |
| **A-1202** | 3¼ | 12 | — | — | 204 | 1.33 | 102 | .667 | — |
| **—** | — | — | — | — | — | — | — | — | — |
| **C-1202** | 2¾ | 12 | — | — | 128 | 1.33 | 64 | .667 | — |
| **E-1202** | 4⅞ | 12 | — | — | 613 | 1.33 | 307 | .667 | — |
| **H-1202** | 6½ | 12 | 1,609 | 1.588 | — | 1.33 | 674 | .667 | — |
| **A-1402** | 3¼ | 14 | | | 144 | 1.33 | 72 | .667 | — |
| **—** | — | — | — | — | — | — | — | — | — |

*When no numbers are shown, use the maximum uniform load.*

*Deflections are given in inches; loads in lbs.*



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# Technical Information



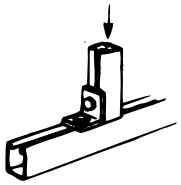
### Table 4 — Safe Bearing Loads for 1⅝" Channel and Combinations

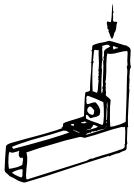
| SECTION | RECOMMENDED LOAD IN LBS. |
|---|---|
| A-1200 | 5,000 |
| A-1400 | 3,500 |
| B-1200 | 6,000 |
| B-1400 | 3,400 |
| C-1200 | 5,000 |
| E-1200 | 5,000 |
| H-1200 | 4,000 |

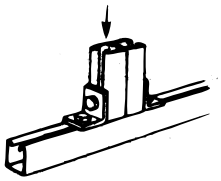
*Safety factor of 2½*

| SECTION | RECOMMENDED LOAD IN LBS. |
|---|---|
| A-1200 | 3,500 |
| A-1400 | 2,500 |
| B-1200 | 4,000 |
| B-1400 | 2,600 |
| C-1200 | 3,500 |
| E-1200 | 3,500 |
| H-1200 | 2,000 |

| SECTION | RECOMMENDED LOAD IN LBS. |
|---|---|
| A-1200 | 8,000 |
| A-1400 | 5,500 |
| B-1200 | 9,000 |
| B-1400 | 4,800 |
| C-1200 | 8,000 |
| E-1200 | 8,000 |
| H-1200 | 5,500 |



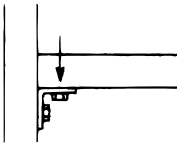




### Table 5 — Design Load Table for Typical Channel Connections

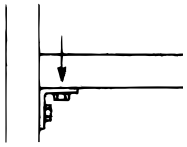
Safety factor of 2½ based on ultimate strength of the connection. Load diagrams indicate up to three design loads, for 12 gauge, 14 gauge and 16 gauge channel applications.

**90° Fittings (when used in position shown).**



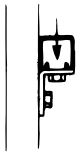
Both ends supported.
**A-1200** 1,500 lbs.
**A-1400** 1,000 lbs.

***AB-202***

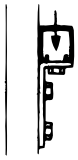


Both ends supported.
**A-1200** 2,000 lbs.
**A-1400** 1,500 lbs.

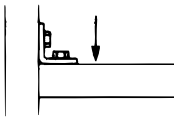
***AB-203***



***AB-201*** *700 lbs.*

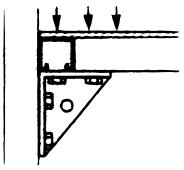


***AB-203*** *700 lbs.*



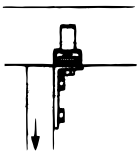
Both ends supported.
**A-1200** 1,000 lbs.
**A-1400** 650 lbs.

***AB-202***

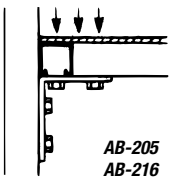


Both ends supported.
**A-1200** 3,000 lbs.
**A-1400** 2,000 lbs.

***AB-213***
***AB-214***

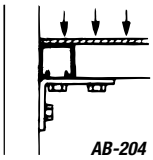


***AB-200*** *1,500 lbs.*



Both ends supported.
**A-1200** 2,000 lbs.
**A-1400** 2,000 lbs.

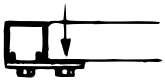
***AB-205***
***AB-216***



Both ends supported.
**A-1200** 1,500 lbs.
**A-1400** 1,000 lbs.

***AB-204***
***AB-215***

**Flat Plate Fittings**



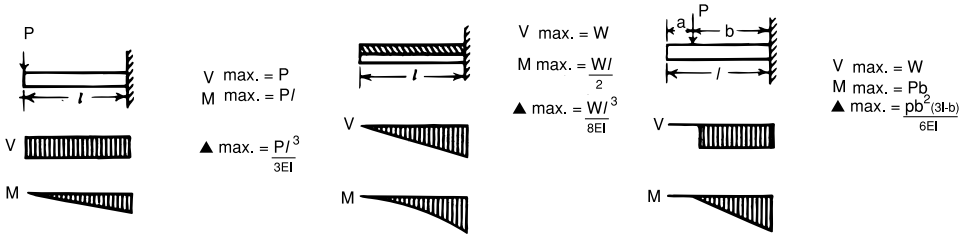
Both ends supported.
**A-1200** 1,000 lbs.
**A-1400** 800 lbs.

***AB-206***

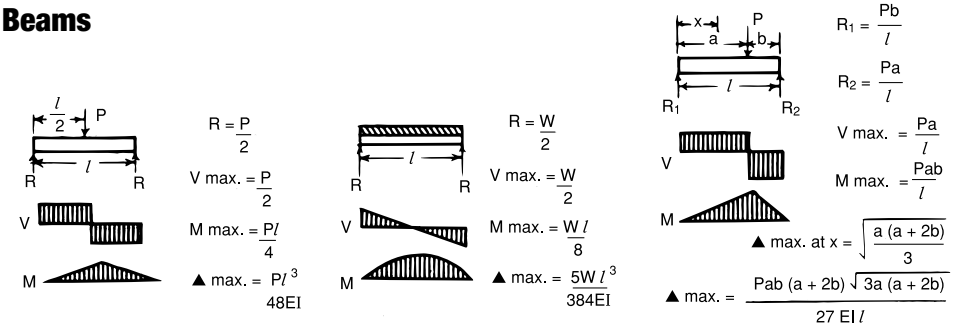
# Technical Information

## Design Applications

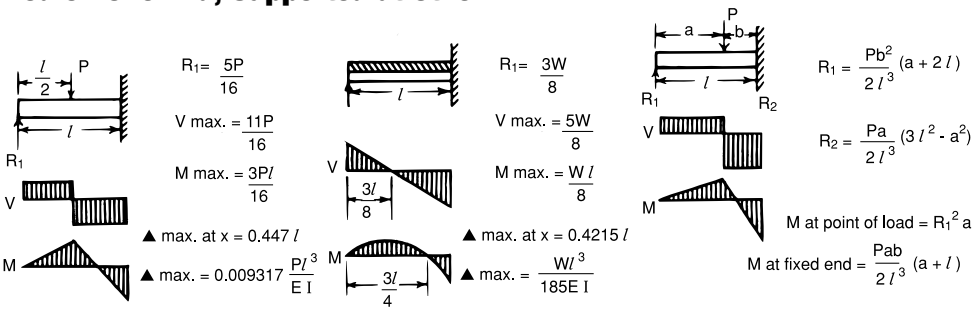
### Cantilever Beams



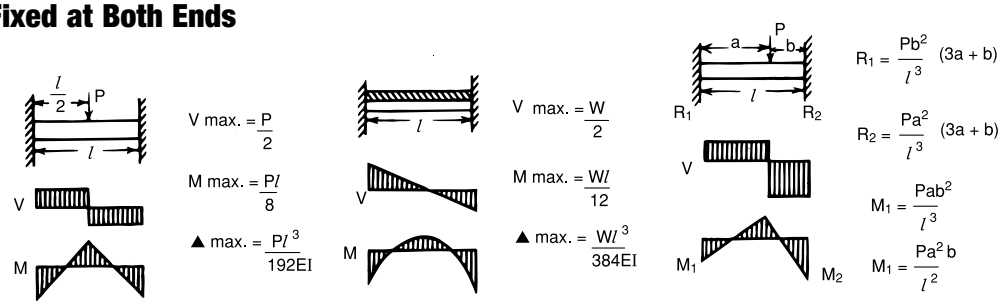

### Simple Beams




### Beams Fixed on One End, Supported at Other




### Beams Fixed at Both Ends




R – Reaction
M – Moment
P – Concentrated load

W – Total uniform load
V – Shear

▲ – Deflection
E – Modulus of Elasticity
I – Moment of Inertia

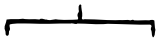
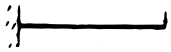
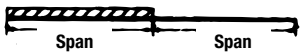


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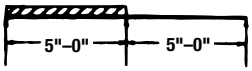
# Technical Information

Load tables on **pages B-200–B-210** for A, B, C, E and H series channel are for single span beams supported at the ends. These can be used in the majority of cases. There are times when it is necessary to know what happens with other loading and support conditions. Some common arrangements are shown in Table 6. Simply multiply the loads from the Design Load Tables times the factors given in Table 6. Examples shown on **page B-214**.

**Table 6 — Conversion Factors for Beams with Various Static Loading Conditions**

| | LOAD AND SUPPORT CONDITION | | LOAD FACTOR | DEFLECTION FACTOR |
|---|---|---|---|---|
| 1. | Simple Beam — Uniform Load |  | 1.00 | 1.00 |
| 2. | Simple Beam — Concentrated Load at Center |  | .50 | 1.25 |
| 3. | Simple Beam — Two Equal Concentrated Loads at ¼ Points |  | 1.00 | 1.10 |
| 4. | Beam Fixed at Both Ends — Uniform Load |  | 1.50 | .30 |
| 5. | Beam Fixed at Both Ends — Concentrated Load at Center |  | 1.00 | .40 |
| 6. | Cantilever Beam — Uniform Load |  | .25 | 2.40 |
| 7. | Cantilever Beam — Concentrated Load at End |  | .12 | 3.20 |
| 8. | Continuous Beam — Two Equal Spans — Uniform Load on One Span |  | 1.30 | .92 |
| 9. | Continuous Beam — Two Equal Spans |  | 1.00 | .42 |
| 10. | Continuous Beam — Two Equal Spans — Concentrated Load at Center of One Span |  | .62 | .71 |
| 11. | Continuous Beam — Two Equal Spans — Concentrated Load at Center of Both Spans |  | .67 | .48 |

## Design Applications *(continued)*




### Example I

**Problem:**

Determine the load and deflection of an A-1200 beam continuous over one support and loaded uniformly on one span.

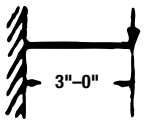
**Solution:**

A. From load table 3 for A-1200 the load for a 5'0" span is 706 lbs. and deflection is .358".

B. Multiply by factors from Table 6.

Load = 706 lbs. x 1.30 = 917.8 lbs.

Deflection = .358 x .92 = .329"




### Example Ii

**Problem:**

Determine load and deflection of an E-1200 cantilever beam with a concentrated load on the end.

**Solution:**

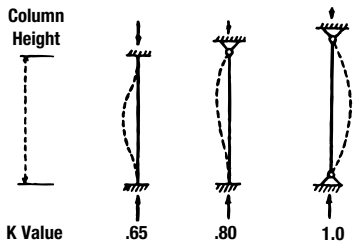
A. From load table 3 for E-1200 the load for a 3'0" span is 2216 lbs. and deflection is .088".

B. Multiply by factors from Table 6.

Load = 2216 lbs. x .12 = 265.9 lbs.

Deflection = .088 x 3.20 = .282"

**Illustration 1**




### Column Loading

The load bearing capacity of column or compression members is a function of the inherent configurational strength, the unbraced length and design of the end connections.

Values of axial column loading given in Table 3 were calculated using a rotationally free and translation fixed correction at each end (see illustration I). This gives an end condition constant (K) of 1.

If other end conditions are used, axial loading should be calculated using procedures in the AISI specification for the design of cold formed steel structural members (SG671) and the engineering values for Superstrut channel given in Table 1.

**End Condition Code**



Rotation fixed and translation fixed



Rotation free and translation fixed



Rotation fixed and translation free



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# Technical Information



### Table 7 — Load Carrying Capacities of Hot-Rolled Steel Rod

| DIMENSIONS (IN.) — LOADS | |
|---|---|
| NOMINAL ROD DIA. | ROOT AREA THREAD |
| ⅛ | .068 |
| ½ | .126 |
| ⅝ | .202 |
| ¾ | .302 |
| ⅞ | .419 |

*Safety factor of 5.*

### Table 8 — Rod Size Determined by Pipe Size for Fire Protection

| DIMENSIONS (IN.) — LOADS | |
|---|---|
| NOMINAL ROD DIA. | ROOT AREA THREAD |
| ¾ to 2 | ⅛ |
| 2½ to 3½ | ½ |
| 4 to 5 | ⅝ |
| 6 | ¾ |
| 8 to 12 | ⅞ |

*Safety factor of 5.*

### Table 9 — Maximum Spacing between Pipe Supports

| ***Steel Pipe*** | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nom. Pipe Size (IN.) | ½ | ¾ | 1 | 1½ | 2 | 2½ | 3 | 3½ | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 |
| Max. Spacing (FT.) | 5 | 6 | 7 | 9 | 10 | 11 | 12 | 13 | 14 | 16 | 17 | 19 | 22 | 23 | 25 | 27 | 28 | 30 | 32 |
| ***Copper Size*** | | | | | | | | | | | | | | | | | | | |
| Nom. Pipe Size (IN.) | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | 3½ | 4 | | | | | | | | | |
| Max. Spacing (FT.) | 5 | 6 | 6 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | | | | | | | | | |

### Table 10 — Minimum Spacing (IN.) between Centers of Standard Pipe When Using Superstrut #702 Pipe Straps

| NOM. PIPE SIZE | ½ | 37/64 | 1 | 1¼ | 1½ | 2 | 2½ | 3 | 3½ | 4 | 5 | 6 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 1 3/16 | — | — | — | — | — | — | — | — | — | — | — | — |
| ¾ | 1 5/16 | 1 7/16 | — | — | — | — | — | — | — | — | — | — | — |
| 1 | 1½ | 1⅝ | 1¾ | — | — | — | — | — | — | — | — | — | — |
| 1¼ | 1¾ | 1⅞ | 2 | 2¼ | — | — | — | — | — | — | — | — | — |
| 1½ | 1 15/16 | 2 1/16 | 2 3/16 | 2 7/16 | 2 9/16 | — | — | — | — | — | — | — | — |
| 2 | 2 3/16 | 2 5/16 | 2½ | 2¾ | 2⅞ | 3⅛ | — | — | — | — | — | — | — |
| 2½ | 2 7/16 | 2 9/16 | 2¾ | 3 | 3⅛ | 3⅛ | 3⅜ | — | — | — | — | — | — |
| 3 | 2 13/16 | 2 15/16 | 3 1/16 | 3 3/16 | 3 7/16 | 3¾ | 4 | 4 5/16 | — | — | — | — | — |
| 3½ | 3⅛ | 3¼ | 3⅛ | 3⅜ | 3¾ | 4 1/16 | 4 5/16 | 4⅝ | 4 15/16 | — | — | — | — |
| 4 | 3 7/16 | 3 9/16 | 3 15/16 | 4 1/16 | 4⅛ | 4⅝ | 4 15/16 | 5¼ | 5 9/16 | — | — | — | — |
| 6 | 4¾ | 4⅞ | 5 | 5¼ | 5⅛ | 5⅛ | 5⅞ | 6 3/16 | 6½ | 6 3/16 | 7 1/16 | 8⅛ | — |
| 8 | 5 7/16 | 6 | 6⅛ | 6⅛ | 6½ | 6¾ | 7 | 7 5/16 | 7⅞ | 8 | 8 9/16 | 9¼ | 10⅛ |

## Design Applications *(continued)*

**Table 11 — Standard Dimensions and Weights of Piping Materials and Conduit**

| | MECHANICAL (SCHEDULE 40) | |
|---|---|---|
| NOMINAL STD. PIPE SIZE (IN.) | PIPE O.D. (IN.) | COUPLING O.D. (IN.) |
| ½ | .84 | 1.06 |
| ¾ | 1.05 | 1.31 |
| 1 | 1.32 | 1.58 |
| 1¼ | 1.66 | 1.90 |
| 1½ | 1.90 | 2.20 |
| 2 | 2.38 | 2.75 |
| 2½ | 2.88 | 3.25 |
| 3 | 3.50 | 4.00 |
| 3½ | 4.00 | 4.63 |
| 4 | 4.50 | 5.00 |
| 5 | 5.56 | 6.30 |
| 6 | 6.63 | 7.39 |
| 8 | 8.63 | 9.23 |
| 10 | 10.75 | — |
| 12 | 12.75 | — |
| 14 | 14.00 | — |
| 16 | 16.00 | — |
| 18 | 18.00 | — |
| 20 | 20.00 | — |
| 22 | 22.00 | — |
| 24 | 24.00 | — |
| 26 | 26.00 | — |
| 28 | 28.00 | — |
| 30 | 30.00 | — |

| | ELECTRICAL CONDUIT | |
|---|---|---|
| NOMINAL CONDUIT SIZE (IN.) | RIGID STEEL CONDUIT O.D. (IN.) | THIN WALL (EMT) CONDUIT O.D. (IN.) |
| ½ | .84 | .71 |
| ¾ | 1.05 | .92 |
| 1 | 1.32 | 1.16 |
| 1¼ | 1.66 | 1.51 |
| 2 | 2.38 | 2.20 |
| 2½ | 2.88 | 2.88 |
| 3 | 3.50 | 3.50 |
| 4 | 4.50 | 4.50 |

** Includes weight of heaviest conductor combination*



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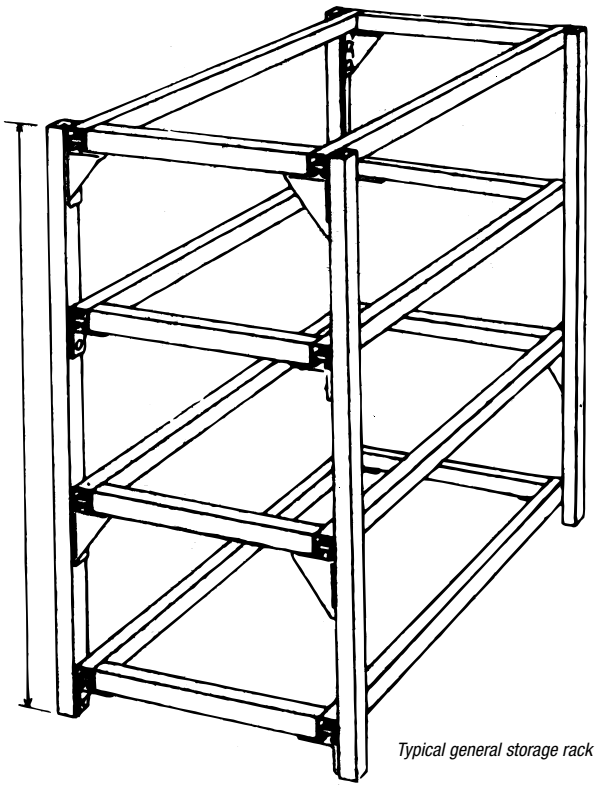
### Table 12 — Extra Strong Pipe (Schedule 80)

| A.S.A. B36.10 SCHEDULE NOS. AND NOMINAL WALL THICKNESS DESIGNATIONS | NOMINAL PIPE SIZE (IN.) | OUTSIDE DIAMETER (IN.) | WALL THICKNESS (IN.) | INSIDE DIAMETER (IN.) |
|---|---|---|---|---|
| EXTRA STRONG PIPE AND SCHEDULE 80 PIPE (THROUGH 8") | ⅜ | .675 | .126 | .423 |
| | ½ | .840 | .147 | .546 |
| | ¾ | 1.050 | .154 | .742 |
| | 1 | 1.315 | .179 | .957 |
| | 1¼ | 1.660 | .191 | 1.278 |
| | 1½ | 1.900 | .200 | 1.500 |
| | 2 | 2.375 | .218 | 1.939 |
| | 2½ | 2.875 | .276 | 2.323 |
| | 3 | 3.500 | .300 | 2.900 |
| | 3½ | 4.000 | .318 | 3.364 |
| | 4 | 4.500 | .337 | 3.826 |
| | 5 | 5.563 | .375 | 4.813 |
| | 6 | 6.625 | .432 | 5.761 |
| | 8 | 8.625 | .500 | 7.625 |
| | 10 | 10.750 | .500 | 9.750 |
| EXTRA STRONG PIPE (10" THROUGH 24" OD) | 12 | 12.750 | .500 | 11.750 |
| | 14 OD | 14.000 | .500 | 13.000 |
| | 16 OD | 16.000 | .500 | 15.000 |
| | 18 OD | 18.000 | .500 | 17.000 |
| | 20 OD | 20.000 | .500 | 19.000 |
| | 24 OD | 24.000 | .500 | 23.000 |
| | 10 | 10.750 | .593 | 9.564 |
| SCHEDULE 80 PIPE (10" THROUGH 24" OD) | 12 | 12.750 | .687 | 11.376 |
| | 14 OD | 14.000 | .750 | 12.500 |
| | 16 OD | 16.000 | .842 | 14.314 |
| | 18 OD | 18.000 | .937 | 16.126 |
| | 20 OD | 20.000 | 1.031 | 17.938 |
| | 24 OD | 24.000 | 1.218 | 21.564 |

### Table 13 — Pipe Covering Weights Thickness (Intended as Guide Only) and Weight of Calcium Silicate Covering

| NOMINAL PIPE SIZE | 260° THICK. (IN.) | 360° THICK. (IN.) | 440° THICK. (IN.) | 525° THICK. (IN.) | 600° THICK. (IN.) | 700° THICK. (IN.) | 800° THICK. (IN.) |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 1 | 1 | 1½ | 1½ | 1½ |
| 1¼ | 1 | 1 | 1 | 1 | 1½ | 1½ | 2 |
| 1½ | 1 | 1 | 1 | 1 | 1½ | 1½ | 2 |
| 2 | 1 | 1 | 1 | 1½ | 1½ | 2 | 2 |
| 2½ | 1 | 1 | 1 | 1½ | 1½ | 2 | 2½ |
| 3 | 1 | 1 | 1 | 1½ | 1½ | 2 | 2½ |
| 3½ | 1 | 1 | 1½ | 1½ | 2 | 2 | 2½ |
| 4 | 1 | 1 | 1½ | 1½ | 2 | 2 | 2½ |
| 5 | 1 | 1 | 1½ | 1½ | 2 | 2 | 2½ |
| 6 | 1½ | 1½ | 1½ | 1½ | 2 | 2 | 2½ |
| 8 | 1½ | 1½ | 1½ | 1½ | 2 | 2 | 2½ |

## Design Applications *(continued)*




*Typical general storage rack for use with plywood or other decking*

- General Storage Racks
- Pallet Racks
- Barrel Racks
- Bulk Furniture Racks
- Cable Racks
- Bar Stock Racks
- Display Racks
- Special Purpose Racks
- For Uniform Loads on Horizontal Members, See Table 3 **(pages B-200–B-210)**

**Table 14 — Column Loading for Rack Construction**

| COLUM HEIGHT | CAT. NO. | ALLOWABLE LOAD IN LBS. PER UPRIGHT NUMBER OF SHELVES PER UPRIGHT | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 6' | **A-1200** | 2,237 | 1,925 | 1,650 | 1,437 | 1,290 | — | — | — | — |
| | **A-1202** | 4,170 | 3,580 | 3,100 | 2,730 | 2,450 | — | — | — | — |
| | **B-1400** | 800 | 820 | 790 | 700 | 630 | — | — | — | — |
| | **B-1402** | 1,930 | 1,700 | 1,500 | 1,300 | 1,190 | — | — | — | — |
| 7' | **A-1200** | 2,150 | 1,850 | 1,630 | 1,425 | 1,280 | 1,150 | — | — | — |
| | **A-1202** | 4,000 | 3,525 | 3,000 | 2,700 | 2,430 | 2,200 | — | — | — |
| | **B-1400** | 650 | 790 | 760 | 685 | 615 | 550 | — | — | — |
| | **B-1402** | 1,800 | 1,650 | 1,450 | 1,300 | 1,180 | 750 | — | — | — |
| 8' | **A-1200** | 2,000 | 1,820 | 1,600 | 1,400 | 1,250 | 1,150 | 1,050 | — | — |
| | **A-1202** | 3,900 | 3,475 | 3,000 | 2,700 | 2,400 | 2,185 | 2,000 | — | — |
| | **B-1400** | 580 | 750 | 730 | 660 | 610 | 540 | 510 | — | — |
| | **B-1402** | 1,650 | 1,610 | 1,450 | 1,300 | 1,160 | 940 | 970 | — | — |
| 9' | **A-1200** | 1,950 | 1,780 | 1,575 | 1,400 | 1,250 | 1,130 | 1,030 | 950 | — |
| | **A-1202** | 3,800 | 3,400 | 3,020 | 2,675 | 2,400 | 2,180 | 1,975 | 1,800 | — |
| | **B-1400** | — | 600 | 665 | 600 | 580 | 540 | 500 | 475 | — |
| | **B-1402** | 1,500 | 1,500 | 1,430 | 1,275 | 1,160 | 1,000 | 900 | 800 | — |
| 10' | **A-1200** | 1,870 | 1,700 | 1,500 | 1,300 | 1,200 | 1,100 | 1,000 | 900 | 800 |
| | **A-1202** | 3,600 | 3,300 | 3,000 | 2,650 | 2,350 | 2,000 | 1,975 | 1,800 | 1,650 |
| | **B-1400** | — | 550 | 650 | 625 | 580 | 535 | 490 | 450 | 425 |
| | **B-1402** | 1,450 | 1,480 | 1,400 | 1,250 | 1,140 | 1,040 | 960 | 885 | 825 |



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## Technical Information

# Federal Specifications (WW-H-171)/ Manufacturers Society Specifications (MSS SP69)

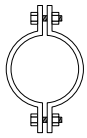




***C-710***
*Adj. Steel Clevis*
*Sizes ¾" through 20" IPS*
***Federal Type 1***
***SP69 Type 1***



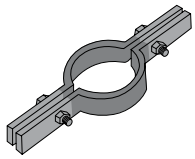
***C-726***
*Steel Double Bolt Pipe Clamp*
*Sizes 1½" through 24" IPS*
***Federal Type 3***
***SP69 Type 3***



***C-725***
*Steel Pipe Clamp*
*Sizes 1½" through 24" IPS*
***Federal Type 4***
***SP69 Type 4***



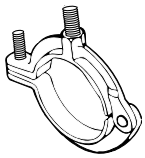
***CF-710***
*Adj. Steel Band Hanger*
*Sizes ½" through 8"*
*IPS ¾" through 4" tube*
***Federal Type 7***



***C-720/CT-720***
*Extension Pipe or Riser Clamp*
*Sizes ¾" through 20"*
*IPS ½" through 6" tube*
***Federal Type 8***
***SP69 Type 8***



***C-727/CT-727***
*Adj. Swivel Ring Hanger*
*Sizes ½" through 8" IPS*
*½" through 4" tube*
***Federal Type 10***
***SP69 Type 10***



***M-718/MT-718***
*MI Split Pipe Ring*
*w/wo turnbuckle adj.*
*Sizes ½" through 8" IPS*
*½" through 4" tube*
***Federal Type 11***
***SP69 Type 12***



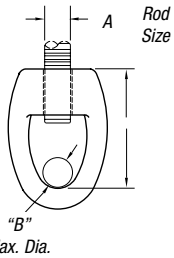
***CL-710***
*Light-Duty Clevis Hanger*
*Sizes ½" through 4"*
***Federal Type 12***



***F-112***
*Forged Steel Turnbuckle*
*Sizes ⅜" through 1½" rod*
***Federal Type 13***
***SP69 Type 13***



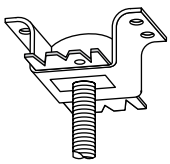
***F-111***
*Forged Steel Clevis*
*Sizes ⅜" through 1½" rod*
***Federal Type 14***
***SP69 Type 13***



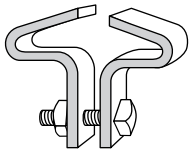

***M-117***
*MI Socket only for*
*S Split Ring Hanger*
*Sizes ⅜" through ⅞" Rod*
***Federal Type 16***
***SP69 Type 16***



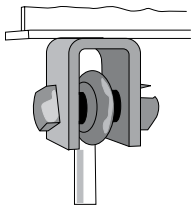
***E-120-A***
*Forged Steel Weldless Eye Nut*
*Sizes ⅜" through 1½" rod*
***Federal Type 17***
***SP69 Type 17***



***452***
*Steel Concrete Insert*
***Federal Type 19***
***SP69 Type 18***



***C-755 T/C-757 T***
*Center I-Beam Clamp*
***Federal Type 21***
***SP69 Type 21***



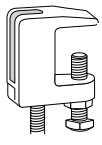
***C-780***
*Welded attachment as*
*shown or inverted less bolt*
***Federal Type 22***
***SP69 Type 22***



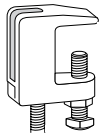
***M-775-L/C-775-L***
*MI or Steel C-Clamp*
*Sizes ⅜" through ⅞"*
***Federal Type 23***
***SP69 Type 23***



***H-115***
*U-Bolt*
*Sizes ½" through 24" IPS*
***Federal Type 24***
***SP69 Type 24***



***M-778***
*Top Beam C-Clamp*
*Sizes ⅜" through ¾" rod*
***SP69 Type 19***



***M-777***
*Junior Top Beam C-Clamp*
*Sizes ⅜" through ½" rod*
***SP69 Type 18***



***C-711***
*"J" Pipe Hanger*
*Sizes ½" through 8" pipe*
***SP69 Type 5***

# Federal Specifications (WW-H-171)/ Manufacturers Society Specifications (MSS SP69) *(continued)*



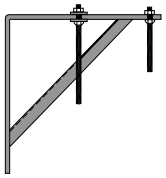
***C-704-A***
*Offset J-Hook*
*Sizes ½" through 3" IPS*
***Federal Type 27***



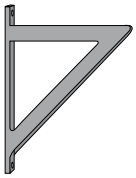
***M-732-H***
*I-Beam w/Eye Nut*
***Federal w/o links Type 28***
***Federal w/links Type 29***
***SP69 Type 28***



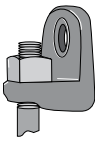
***M-732/M-732 Ext***
*I-Beam Clamp*
*w/Swing Nut*
*Sizes ⅜" through ⅞" Rod*
***Federal Type 30***
***SP69 Type 30***



***C-736***
*Light Welded Steel Bracket*
***Federal Type 32***
***SP69 Type 31***



***C-739-H***
*Heavy Welded Steel Bracket*
*Max. Load 3,000 lbs.*
***Federal Type 34***
***SP69 Type 33***



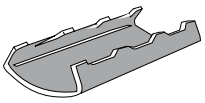
***M-750***
*Side Beam Bracket*
*Sizes ⅜" through ⅞" Rod*
***Federal Type 35***
***SP69 Type 34***



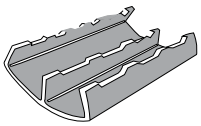
***C-785-A***
*Pipe Stanchion Saddle*
*Sizes 4" through 36" IPS*
***Federal Type 38***
***SP69 Type 37***



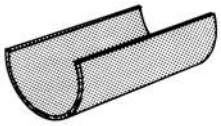
***C-786***
*Adj. Pipe Saddle Support*
*Sizes 2½" through 36" IPS*
***Federal Type 39***
***SP69 Type 38***



***C-789***
*Steel Pipe Covering*
*Protection Saddle*
*Sizes up to and including*
*10" IPS*
***Federal Type 40A***
***SP69 Type 39***



***C-789-AL***
*Steel Pipe Covering*
*Protection Saddle*
*Sizes 12" IPS and larger*
***Federal Type 40B***
***SP69 Type 39***



***C-790***
*Insulation Protection Shield*
*for Vapor sealed pipe lines and*
*insulated copper tubing*
*Sizes ¾" through 12" IPS*
***Federal Type 41***
***SP69 Type 40***



***RC-729A***
*Single Pipe Roll*
*Sizes 1" through 24" IPS*
***Federal Type 42***
***SP69 Type 41***



***C-729***
*Adj. Roller Hanger*
*Sizes 1" through 20" IPS*
***Federal Type 44***
***SP69 Type 43***



***S-730-C***
*Pipe Roll Complete*
***Federal Type 45***
***SP69 Type 44***



***S-730-D***
*Adj. Pipe Roll & Base*
***Federal Type 47***
***SP69 Type 46***



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Steel City®

# Steel City® Hangers, Clamps & Fasteners



**In this section...**



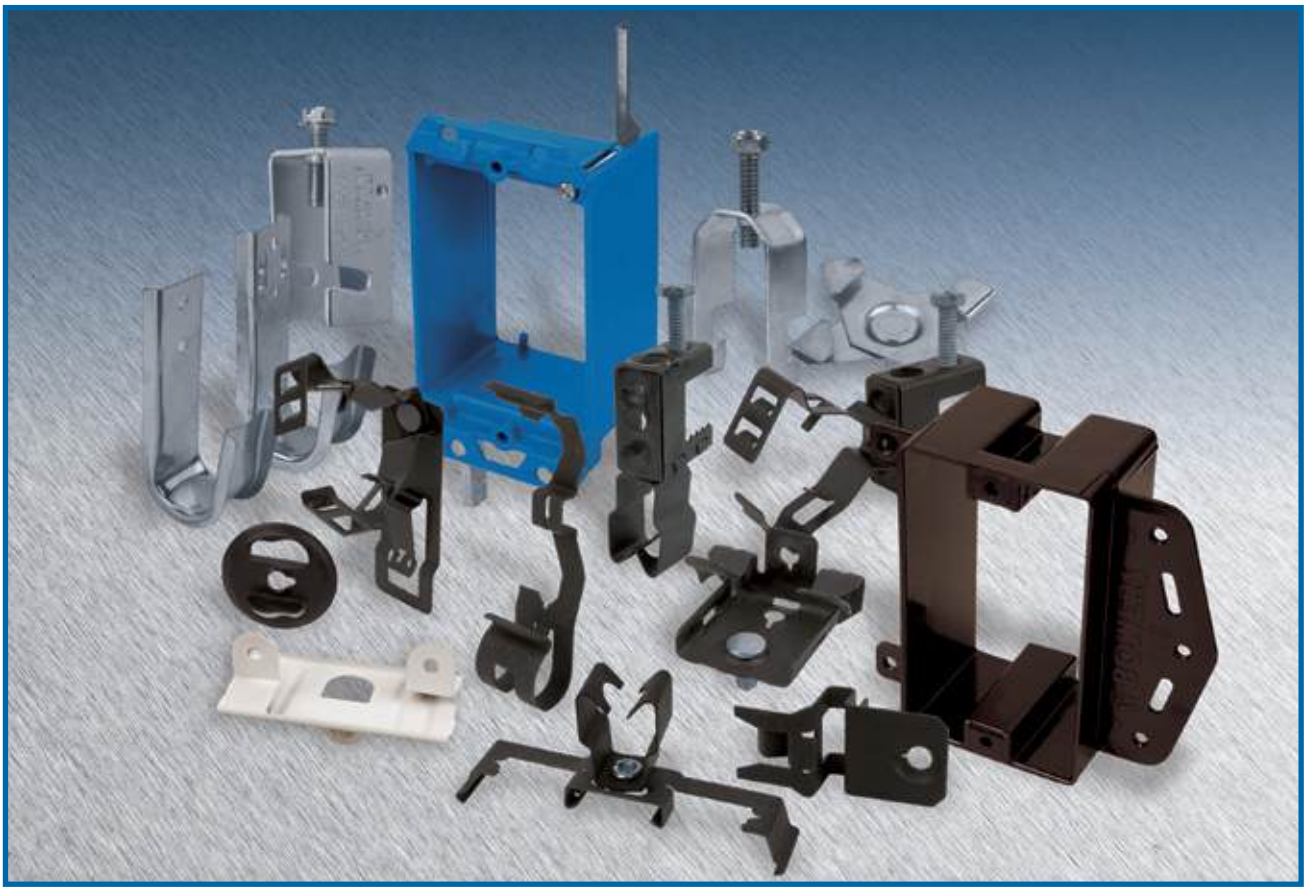
## Steel City® Hangers, Clamps & Fasteners


Overview ..... B-222–B-223
Beam and Purlin Clamps..... B-224–B-229
Hangers..... B-230–B-231
Conduit and Cable Supports..... B-232–B-240
Stud Wall/Drywall Supports, Clips and Brackets ..... B-241–B-247
Acoustical Tee Supports, Clips and Brackets..... B-248–B-251
Low-Voltage/Datacom Hooks, Hangers and Brackets..... B-252–B-256
Fastener Accessories and Hardware ..... B-257–B-258


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## Overview



## Materials:

The following materials are used for Steel City® Spring Steel Fasteners:

**High-Carbon Spring Steel**

Spring steel products are manufactured using high-carbon cold-rolled steel, AISI C1075 or equivalent. The final part is heat treated to give the formed product great resilience and strength.

**Low-Carbon Steel**

Mild steel products are manufactured using low-carbon cold-rolled steel, AISI C1008 or equivalent. Such parts receive a zinc or painted finish to protect the finished product.

## Finishes:

**Zinc Phosphate**

The zinc phosphate finish is per MIL-SPEC-16232, type Z. This finish includes a zinc phosphate base with a supplementary sealant applied. The finished product will withstand 24 to 72 hours of saltspray testing in accordance with ASTM B117.

**Pre-Galvanized**

Products receiving a pre-galvanized finish are low-carbon steel products with a coating of zinc applied to the steel prior to part fabrication. This finish is in conformance with ASTM A525.

**Electro-Galvanized**

The electro-galvanized finish is a zinc finish which includes an electro-plated layer of zinc and a clear conversion coat. This finish is applied after fabrication and is in conformance with ASTM B633.

**Painted**

Some products in the Steel City® line receive a painted finish. Parts are painted for applications which require alternate colors to the standard black zinc phosphate (such as with acoustical ceilings).

## Load Ratings:

The Steel City® Spring Steel Fastener products shown in this catalog have a load limit based on the following:

**Static Load Limit**

Such products show the load limit which is based on a safety factor of 3.

**Ultimate Static Load Limit**

Such products show the load limit which is the highest load allowed, with no safety factor.

These load limits apply only to catalog numbers which list such a limit. For both instances, the static load limits apply only in the orientation described in the catalog or instruction sheet. These loads apply only to the fastener, the structure to which it will be attached must be evaluated separately.



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## Overview



## Individual Part Numbering System

| SSF | - | H | A | 1/4 | T |
|---|---|---|---|---|---|
| 1 | | 2 | 3 | 4 | 5 |

1. Catalog numbers will be preceded by an "SSF" to signify it is a Spring Steel Fastener part and to give it a unique catalog number. Non-Spring Steel Fastening items in this catalog are not preceded by SSF.
2. This portion of the catalog number is a one-letter index based on the category into which the product falls. For this example, "H" is used for the Hangers category. The following is a list of all the categories and their one letter index:
   - **B** – Beams and Purlin
   - **H** – Hangers
   - **C** – Conduit and Cable
   - **S** – Stud Wall and Drywall
   - **T** – Acoustical Tee
   - **V** – Low-Voltage/Telecom
   - **M** – Miscellaneous
3. This portion of the catalog number references the style in a given category. For this example, "A" is used for the rod and wire hanger with thread impressions.
4. This portion of the catalog number is numeric and will be based on the size or range of sizes the part will fit. For example, the SSF-HA1/4T is a hanger that fits ¼" threaded rod, so the numeric code would be 1/4.
5. A final letter may be, but will not always be, included after the numeric code. This final letter indicates one of the following:
   - **S** – The part has an attached stud
   - **T** – The part has a thread impression
   - **A** – Adjustable

## Riveted Combinations

| SSF | - | B | V1/4 | - | A3/8 |
|---|---|---|---|---|---|
| 1 | | 2 | 3 | | 4 |

1. As with the individual parts, riveted combinations will always be preceded by an "SSF" to signify it as a Spring Steel Fastener part.
2. This portion of the catalog number, as with the individual part, is a one letter index based on the category of the product. For this example, "B" is used for the Beams and Purlin category.
3. Riveted combinations of two parts will have a catalog number constructed from the two individual catalog numbers. This portion of the catalog number references the style and numeric size or range for the first piece of the combination (see #3 and #4 under the Individual Part Numbering System). Note that the first part in the combination will have the same category as the combination. In this example, V1/4 represents a vertical flange or C-purlin clip with an individual catalog number of SSF-BV1/4.
4. This portion of the catalog number references the style and numeric size or range for the second piece of the combination (see #3 and #4 under the Individual Part Numbering System). In this example, the A3/8 represents the rod hanger with an individual catalog number of SSF-HA3/8.

## Beam and Purlin Clamps

# Beam Clamps

- Fits beam flanges to ½"
- Supports ¼" and ⅜" threaded rod, S-hooks, electrical boxes, conduit and bridle rings
- ¼–20 or #10–24 threaded openings

| CAT. NO. | FIG NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| **SSF-BBC** | 1 | Stamped-steel beam clamp | 100 | 100 |
| **SSF-BBC-S1/2V** | 2 | Beam clamp through ½" flange to conduit clamp, ½" conduit | 25 | 25 |
| **SSF-BBC-S3/4V** | 2 | Beam clamp through ½" flange to conduit clamp, ¾" conduit | 25 | 25 |
| **SSF-BBC-S1V** | 2 | Beam clamp through ½" flange to conduit clamp, 1" conduit | 25 | 25 |
| **SSF-BBC-S1/2H** | 3 | Beam clamp through ½" flange to side-mounted conduit clamp, ½" conduit | 15 | 25 |
| **SSF-BBC-S3/4H** | 3 | Beam clamp through ½" flange to side-mounted conduit clamp, ¾" conduit | 15 | 25 |
| **SSF-BBC-S1H** | 3 | Beam clamp through ½" flange to side-mounted conduit clamp, 1" conduit | 15 | 25 |

| CAT. NO. | FIG NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| **SSF-BBC-C1/2 3/4V** | 4 | Beam clamp through ½" flange to conduit clamp, ½"–¾" conduit | 100 | 25 |
| **SSF-BBC-C1V** | 4 | Beam clamp through ½" flange to conduit clamp, 1" conduit | 100 | 25 |
| **SSF-BBC-C1 1/4V** | 4 | Beam clamp through ½" flange to conduit clamp, 1¼" conduit | 100 | 25 |
| **SSF-BBC-C1 1/2V** | 4 | Beam clamp through ½" flange to conduit clamp, 1½" conduit | 100 | 25 |
| **SSF-BBC-C2V** | 4 | Beam clamp through ½" flange to conduit clamp, 2" conduit | 100 | 25 |
| **SSF-BBC-C1/2 3/4H** | 5 | Beam clamp through ½" flange to side-mounted conduit clamp, ½"–¾" conduit | 25 | 25 |
| **SSF-BBC-C1H** | 5 | Beam clamp through ½" flange to side-mounted conduit clamp, 1" conduit | 25 | 25 |
| **SSF-BBC-C1 1/4H** | 5 | Beam clamp through ½" flange to side-mounted conduit clamp, 1¼" conduit | 25 | 25 |
| **SSF-BBC-C1 1/2H** | 5 | Beam clamp through ½" flange to side-mounted conduit clamp, 1½" conduit | 25 | 25 |
| **SSF-BBC-C2H** | 5 | Beam clamp through ½" flange to side-mounted conduit clamp, 2" conduit | 25 | 25 |



*Fig. 1*

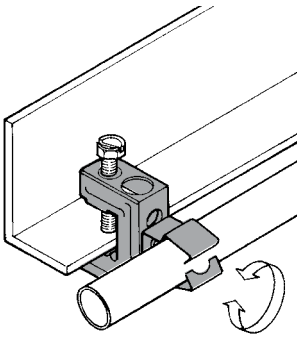




*Fig. 2*

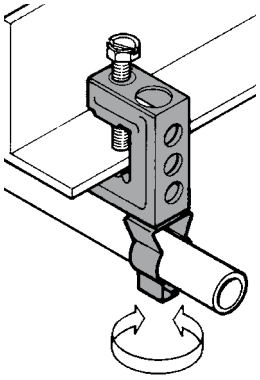




*Fig. 3*

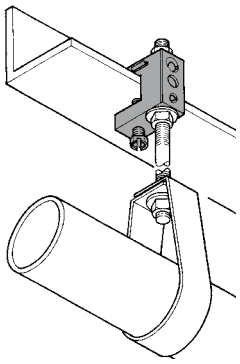




*Fig. 4*



*Fig. 5*



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# Beam and Purlin Clamps

## Beam Clamps



Fig. 1



Fig. 2

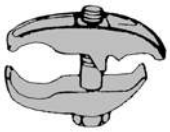


Fig. 3

| CAT. NO. | FIG. NO. | O.D. OF CONDUIT OR PIPE (IN.) | OM. CONDUIT OR PIPE SIZE (IN.) | STD. CTN. |
|---|---|---|---|---|
| ***RCS Clamp — Steel*** | | | | |
| RCS-1/2 | 1 | .840 | ½ | 50 |
| RCS-3/4 | 1 | 1.050 | ¾ | 50 |
| RCS-1 | 1 | 1.315 | 1 | 100 |
| RCS-1-1/4 | 1 | 1.660 | 1¼ | 100 |
| RCS-1-1/2 | 1 | 1.900 | 2 | 100 |
| RCS-2 | 1 | 2.375 | 2 | 100 |
| ***RC Clamp — Malleable Iron*** | | | | |
| RC-3/8 | 1 | .675 | ⅜ | 50 |
| RC-1/2 | 1 | .840 | ½ | 50 |
| RC-3/4 | 1 | 1.050 | ¾ | 50 |
| RC-1 | 1 | 1.315 | 1 | 100 |
| RC-1-1/4 | 1 | 1.660 | 1¼ | 100 |
| RC-1-1/2 | 1 | 1.900 | 1½ | 100 |
| RC-2-SC | 1 | 2.375 | 2 | 100 |
| RC-2-1/2 | 1 | 2.875 | 2½ | 100 |
| RC-3 | 1 | 3.500 | 3 | 100 |
| RC-3-1/2 | 1 | 4.000 | 3½ | 100 |
| RC-4-SC | 1 | 4.500 | 4 | 100 |
| ***EC Clamp — Malleable Iron*** | | | | |
| EC 1/2 | 2 | .840 | ½ | 50 |
| EC-3/4 | 2 | 1.050 | ¾ | 50 |
| EC-1 | 2 | 1.315 | 1 | 100 |
| EC-1-1/4 | 2 | 1.660 | 1¼ | 100 |
| EC-1-1/2 | 2 | 1.900 | 1½ | 100 |
| EC-2 | 2 | 2.375 | 2 | 100 |
| EC-2-1/2 | 2 | 2.875 | 2½ | 100 |
| EC-3 | 2 | 3.500 | 3 | 100 |
| ***PC Clamp — Malleable Iron*** | | | | |
| PC-3/8 | 3 | .675 | ⅜ | 50 |
| PC 1/2 | 3 | .840 | ½ | 50 |
| PC-3/4 | 3 | 1.050 | ¾ | 50 |
| PC-1 | 3 | 1.315 | 1 | 100 |
| PC-1-1/4 | 3 | 1.660 | 1¼ | 100 |
| PC-1-1/2 | 3 | 1.900 | 1½ | 100 |
| PC-2 | 3 | 2.375 | 2 | 100 |
| PC-2-1/2 | 3 | 2.875 | 2½ | 100 |
| PC-3 | 3 | 3.500 | 3 | 100 |
| PC-3-1/2 | 3 | 4.000 | 3½ | 100 |
| PC-4 | 3 | 4.500 | 4 | 100 |

## 6H Series Conduit and Pipe Hangers

- Accommodates ½" through 4" EMT or rigid conduit
- Can be used for either vertical or horizontal installation
- 6HTB Series have a built-in nut so there are less parts to handle or drop
- Installs easily with a screwdriver

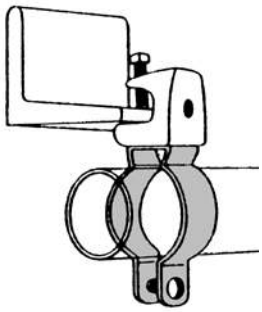




Fig. 1



Fig. 2

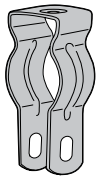


Fig. 3

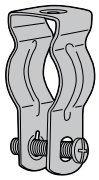


Fig. 4

| WITH BOLT | | WITHOUT BOLT | | | | |
|---|---|---|---|---|---|---|
| CAT. NO. | FIG. NO. | CAT. NO. | FIG. NO. | EMT (IN.) | RIGID CONDUIT OR PIPE (IN.) | STD. CTN. |
| 6H0 B | 1 | 6H0 | 2 | ½ | ⅜–½ | 100 |
| 6H0 TB | 3 | 6H0 | 4 | ½ | ⅜–½ | 100 |
| 6H1 B | 1 | 6H1 | 2 | ¾ | ¾ | 100 |
| 6H1-TB | 3 | 6H1 | 4 | ¾ | ¾ | 100 |
| 6H2-B | 1 | 6H2 | 2 | 1 | 1 | 100 |
| 6H2-TB | 4 | | | 1 | 1 | 100 |
| 6H2 1/2-B | 1 | 6H2 1/2 | 2 | 1¼ | — | 100 |
| 6H2 1/2-TB | 4 | | | 1¼ | — | 100 |
| 6H3-B | 1 | 6H3-SC | 2 | 1½ | 1¼ | 100 |
| 6H3-TB | 4 | | | 1½ | 1¼ | 100 |
| 6H4-B | 1 | 6H4 | 2 | — | 1½ | 100 |
| 6H4-TB | 4 | | | — | 1½ | 100 |
| 6H5-B | 1 | 6H5 | 2 | 2 | 2 | 100 |
| 6H5-TB | 4 | | | 2 | 2 | 100 |
| 6H6-B | 1 | 6H6 | 2 | 2½ | 2½ | 100 |
| 6H7-B | 1 | 6H7 | 2 | 3 | 3 | 100 |
| 6H8-B | 1 | 6H8 | 2 | 3½ | 3½ | 100 |
| 6H9-B | 1 | 6H9 | 2 | 4 | 4 | 100 |

*Add SS suffix to part number for stainless steel.*

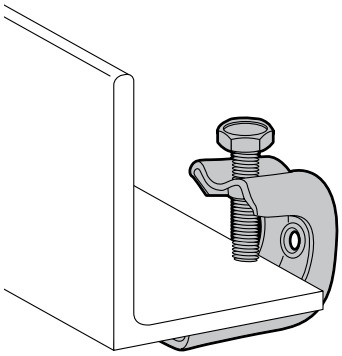
*Load rating is 500 lbs. with a safety factor of 3. Available with or without closure bolt.*

*Standard finishes: Electro-Galvanized and Type 304 Stainless Steel.*

## Beam and Purlin Clamps

# Beam Clamps

- Supports threaded rod, threaded bridle rings and electrical boxes
- Bright zinc plating
- Supports 100 lbs. static load limit



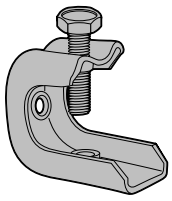


Fig. 1

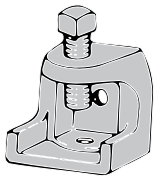
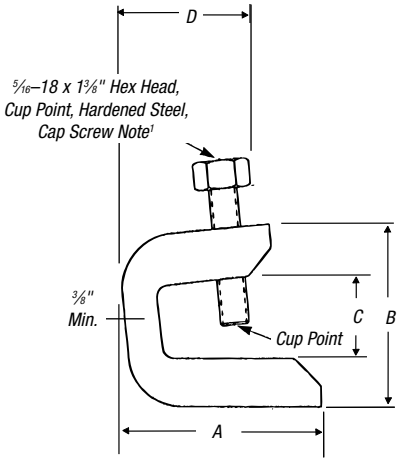


Fig. 2

### Malleable Iron, Electro-Plated Finish

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| **BC1-TB** | 1 | Steel beam clamp, ¼"–20 threaded openings, fits flanges up to ⅝" thick | 75 | 50 |
| **BC2-TB** | 1 | Steel beam clamp, ⁵⁄₁₆"–18 threaded openings, fits flanges up to ¾" thick | 320 | 50 |
| **510** | 2 | Malleable iron beam clamp, ¼"–20 threaded openings, fits flanges up to ⅝" thick | 250 | 100 |
| **511-SC** | 2 | Malleable iron beam clamp, 10–24 threaded openings, fits flanges up to ⅝" thick | 250 | 100 |
| **500-SC** | 2 | Malleable iron beam clamp, ¼"–20 threaded openings, fits flanges up to 1⁵⁄₁₆" thick | 250 | 50 |
| **509** | 2 | Malleable iron beam clamp, 10–24 threaded openings, fits flanges up to ⁵⁄₁₆" thick | 150 | 100 |
| **501** | 2 | Malleable iron beam clamp, ⁵⁄₁₆"–18 threaded openings, fits flanges up to ⅞" thick | 500 | 50 |
| **502** | 2 | Malleable iron beam clamp, ⅜"–16 threaded openings, fits flanges up to 1" thick | 750 | 25 |
| **503-SC** | 2 | Malleable iron beam clamp, ½"–13 threaded openings, fits flanges up to 1" thick | 1,250 | 20 |
| **507** | 2 | Malleable iron beam clamp, ½"–13 threaded openings, fits flanges up to 1⅜" thick | 1,250 | 20 |
| **508** | 2 | Malleable iron beam clamp, ½"–13 threaded openings, fits flanges up to 2⅛" thick | 1,250 | 10 |

*Safety Factor of 3. Load Ratings based on bottom hole of Beam Clamp.*
*CSA File No. LR-63683.*




*⁵⁄₁₆–18 x 1⅜" Hex Head, Cup Point, Hardened Steel, Cap Screw Note[1]*

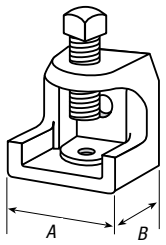
| CAT. NO. | SIZE | TAPPED | DIMENSIONS (IN.) A | B | C | D | STD. CTN. |
|---|---|---|---|---|---|---|---|
| **BC1-TB** | 1 | ¼–20 | 1 11⁄16 | 1⅜ | ⅝ | 1 3⁄16 | 250 |
| **BC2-TB** | 2 15⁄16 | ⅜–16 | 2⅛ | 2 1⁄16 | ¾ | 1 11⁄16 | 25 |

*Material: Steel. Finish: Zinc Plated.*

### Malleable Iron, Silver Electro-Plated Finish

| CAT. NO. | BASE SIZE (IN.) A | B | JAW OPENING (IN.) | TAPPING OF BASE AND BACK HOLES | LOAD RATING‡ | TORQUE IN INCH-LBS. | STD. CTN. |
|---|---|---|---|---|---|---|---|
| **500-SC** | 1 | 1¼ | 1⁵⁄₁₆ | ¼–20 | 250 | 60 | 50 |
| **501** | 1½ | 1⅝ | ⅞ | ⁵⁄₁₆–18 | 500 | 60 | 50 |
| **502** | 2 | 2 | 1 | ⅜–16 | 750 | 125 | 25 |
| **503-SC** | 2⅝ | 2½ | 1 | ½–13 | 1,250 | 250 | 20 |
| **507** | 2½ | 2⅜ | 1⅜ | ½–13 | 1,250 | 250 | 20 |
| **508** | 2½ | 2⅜ | 2⅛ | ½–13 | 1,250 | 250 | 10 |
| **509** | 1 | 1¼ | 1⁵⁄₁₆ | 10–24 | 150 | 60 | 100 |
| **510** | 2 7⁄32 | 1⅛ | ⅝ | ¼–20 | 250 | 40 | 100 |
| **511-SC** | 2 7⁄32 | 1⅛ | ⅝ | 10–24 | 150 | 40 | 100 |

*‡Safety Factor of 3. Load Ratings based on bottom hole of Beam Clamp.*
*CSA File No. LR-63683.*




*500SS316, 502SS316 and 503SS316 in 316 Stainless Steel also available.*



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## Beam and Purlin Clamps

# Hammer-On Flange Clips

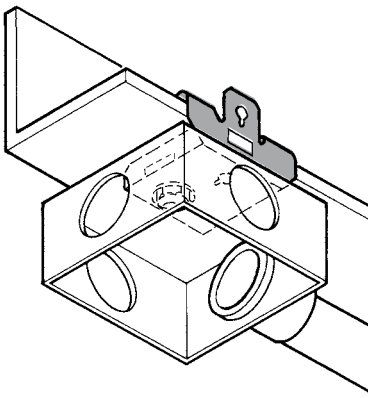
- Hangs on box from the underside or to the front of beam flanges
- When used with combination conduit hanger, the conduit run lines up with knockouts in outlet box and eliminates offsets and bends
- ¼–20 threaded opening
- Also available with staked stud, ¼–20 x ⅜", to provide easier attachment of outlet boxes to beams — eliminates having to use loose screws
- Supports 100 lbs. static vertical load limit
- Installs easily with a hammer



Fig. 1



Fig. 2



| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| **SSF-BH1/4** | 1 | Clip without stud, ⅛"–¼" flange thickness | 100 | 100 |
| **SSF-BH1/2** | 1 | Clip without stud, 5⁄16"–½" flange thickness | 100 | 100 |
| **SSF-BH3/4** | 1 | Clip without stud, 9⁄16"–¾" flange thickness | 100 | 100 |
| **SSF-BH1/4S** | 2 | Clip with stud, ⅛"–¼" flange thickness | 100 | 100 |
| **SSF-BH1/2S** | 2 | Clip with stud, 5⁄16"–½" flange thickness | 100 | 100 |
| **SSF-BH3/4S** | 2 | Clip with stud, 9⁄16"–¾" flange thickness | 100 | 100 |

- Clips fit most bulb tees and beam flanges
- ¼" hole provided
- Installs easily with a hammer



Fig. 1

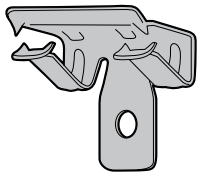
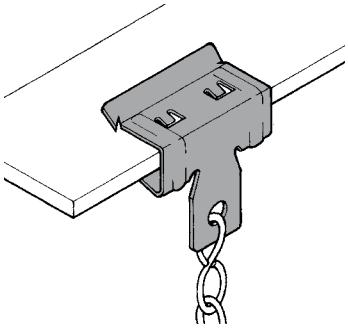
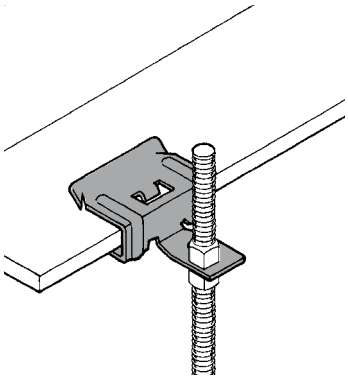


Fig. 2





| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| **SSF-BF1/8** | 1 | Hammer-on Flange Clip fits 3⁄32"–9⁄64" flange thickness | 160 | 100 |
| **SSF-BF1/4** | 1 | Hammer-on Flange Clip fits ⅛"–¼" flange thickness | 200 | 100 |
| **SSF-BF1/2** | 1 | Hammer-on Flange Clip fits 5⁄16"–½" flange thickness | 200 | 100 |
| **SSF-BF3/4** | 1 | Hammer-on Flange Clip fits 9⁄16"–¾" flange thickness | 200 | 100 |
| **SSF-BFF1/8** | 2 | Hammer-on Flange Clip fits 3⁄32"–9⁄64" flange thickness with horizontal tab | 50 | 25 |
| **SSF-BFF1/4** | 2 | Hammer-on Flange Clip fits ⅛"–¼" flange thickness with horizontal tab | 50 | 25 |
| **SSF-BFF1/2** | 2 | Hammer-on Flange Clip fits 5⁄16"–½" flange thickness with horizontal tab | 50 | 25 |
| **SSF-BFF3/4** | 2 | Hammer-on Flange Clip fits 9⁄16"–¾" flange thickness with horizontal tab | 50 | 25 |

# Z Purlin Clips

### SSF-BA Series

- Fits Z Purlin flanges 1/16" to 1/4"
- Riveted combinations support wire, rod or threaded rod from Z Purlin
- Compensates for the angle of the Purlin design
- Supports 100 lbs. static load limit
- Installs easily with hammer

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-BA1/4 | 1 | Z Purlin clip | 100 | 100 |
| SSF-BA1/4-B1/4 | 2 | Z Purlin to wire hanger, 1/16"–1/4" flange to 1/4" plain rod | 100 | 25 |
| SSF-BA1/4-B3/8 | 2 | Z Purlin to wire hanger, 1/16"–1/4" flange to 3/8" plain rod | 100 | 25 |
| SSF-BA1/4-B8 | 2 | Z Purlin to wire hanger, 1/16"–1/4" flange to #8 wire | 100 | 25 |
| SSF-BA1/4-A1/4T | 3 | Z Purlin to wire hanger, 1/16"–1/4" flange to 1/4" threaded rod | 100 | 25 |
| SSF-BA1/4-A3/8 | 3 | Z Purlin to wire hanger, 1/16"–1/4" flange to 3/8" threaded rod (nuts required) | 100 | 25 |
| SSF-BA1/4-A3/8T | 3 | Z Purlin to wire hanger, 1/16"–1/4" flange to 3/8" threaded rod | 100 | 25 |

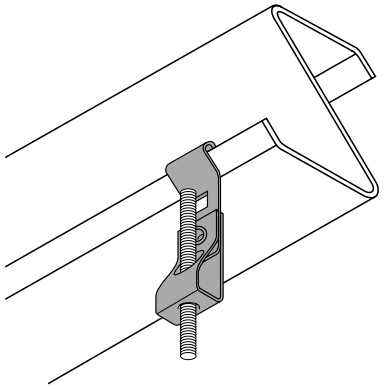




Fig. 1



Fig. 2

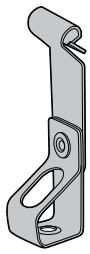


Fig. 3

### SSF-BZ1/SSF-BZ2 Series

- Compensates for angle of Purlin
- Provides method for running conduit parallel to Purlin
- Fits Z Purlin thicknesses up to 3/32"
- Supports 100 lbs. static load limit
- Installs easily with a hammer

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-BZ1 | 1 | Z Purlin clip | 100 | 100 |
| SSF-BZ2 | 2 | Z Purlin clip with bottom | 100 | 100 |

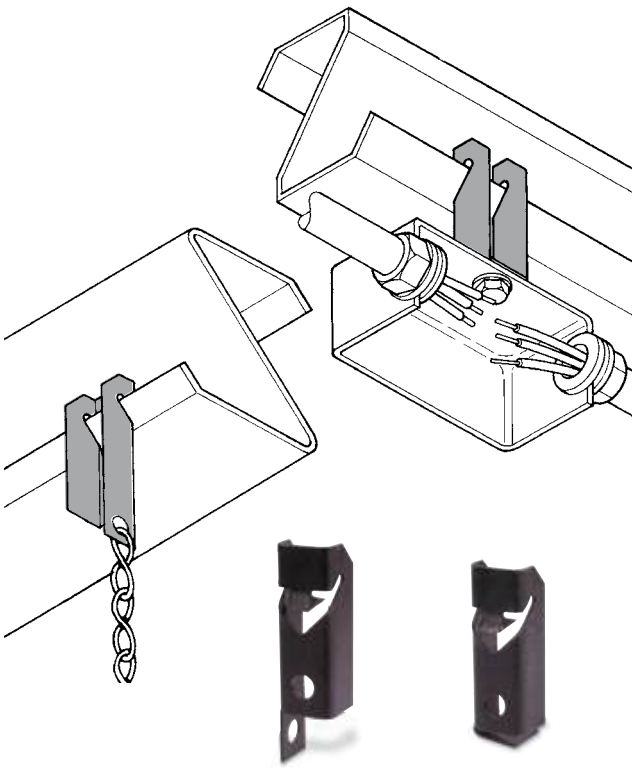


Fig. 1

Fig. 2



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# Beam and Purlin Clamps

## SSF-BZ1-A/SSF-BZ1-B Series

- Compensates for angle of Purlin
- Provides method for running conduit parallel to Purlin
- Fits Z Purlin thicknesses up to 3/32"
- Supports 100 lbs. static load limit
- Installs easily with a hammer

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-BZ1-A1/4T | 1 | Z Purlin clip to rod hanger, 1/4" threaded rod | 100 | 25 |
| SSF-BZ1-A3/8T | 1 | Z Purlin clip to rod hanger, 3/8" threaded rod | 100 | 25 |
| SSF-BZ1-A3/8 | 1 | Z Purlin clip to rod hanger, 1/4" & 3/8" threaded rod, nuts required | 100 | 25 |
| SSF-BZ1-B8 | 2 | Z Purlin clip to rod/wire hanger, #8 wire | 100 | 25 |
| SSF-BZ1-B1/4 | 2 | Z Purlin clip to rod/wire hanger, 1/4" threaded or plain rod | 100 | 25 |
| SSF-BZ1-B3/8 | 2 | Z Purlin clip to rod/wire hanger, 3/8" threaded or plain rod | 100 | 25 |

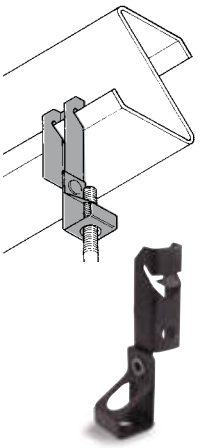


Fig. 1

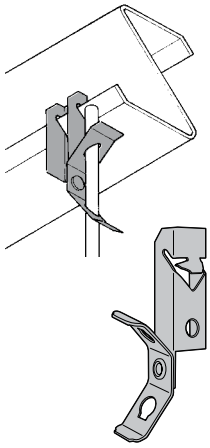


Fig. 2

## SSF-BZ2-A/SSF-BZ1-C Series

- Compensates for angle of Purlin
- Provides method for running conduit parallel to Purlin
- Fits Z Purlin thicknesses up to 3/32"
- Supports 100 lbs. static load limit for C series and 25 lbs. for S series
- Installs easily with a hammer

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-BZ2-S1/2 | 1 | Z Purlin to snap-in style conduit clip, 1/2" conduit | 100 | 25 |
| SSF-BZ2-S3/4 | 1 | Z Purlin to snap-in style conduit clip, 3/4" conduit | 100 | 25 |
| SSF-BZ2-S1 | 1 | Z Purlin to snap-in style conduit clip, 1" conduit | 100 | 25 |
| SSF-BZ2-C1/2 3/4 | 2 | Z Purlin finger close style conduit clip, 1/2"–3/4" conduit | 100 | 25 |
| SSF-BZ2-C3/8 | 2 | Z Purlin finger close style conduit clip, 3/8" conduit | 100 | 25 |
| SSF-BZ2-C1 | 2 | Z Purlin finger close style conduit clip, 1" conduit | 100 | 25 |
| SSF-BZ2-C1 1/4 | 2 | Z Purlin finger close style conduit clip, 1–1/4" conduit | 100 | 25 |

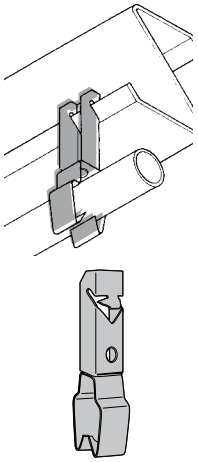


Fig. 1

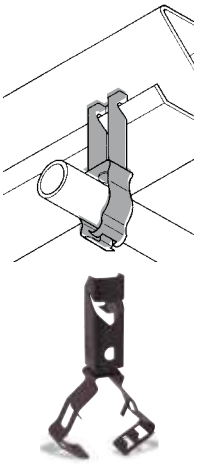


Fig. 2

# C Purlin Clips

- Two sizes of C Purlin clips to cover larger range of vertical flange sizes
- Riveted combinations support wire, rod or threaded rod from bar joist, C Purlin
- Supports 160 lbs. static load limit
- Installs easily with a hammer

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-BV1/16 | 1 | C Purlin clip fits 1/32"–3/32" vertical flange | 160 | 100 |
| SSF-BV1/4 | 1 | C Purlin clips fits 3/32"–9/32" vertical flange | 160 | 100 |
| SSF-BV1/16-B8 | 2 | C Purlin fits 1/32"–3/32" vertical flange to #8 wire | 160 | 25 |
| SSF-BV1/16-B1/4 | 2 | C Purlin fits 1/32"–3/32" vertical flange to 1/4" plain rod | 160 | 25 |
| SSF-BV1/16-B3/8 | 2 | C Purlin fits 1/32"–3/32" vertical flange to 3/8" plain rod | 160 | 25 |
| SSF-BV1/4-B8 | 2 | C Purlin clip fits 3/32"–9/32" vertical flange to #8 wire or 1/4" plain rod | 160 | 25 |
| SSF-BV1/4-B1/4 | 2 | C Purlin clips fits 3/32"–9/32" vertical flange to plain rod | 160 | 25 |
| SSF-BV1/4-B3/8 | 2 | C Purlin fits 3/32"–9/32" vertical flange to threaded rod | 160 | 25 |

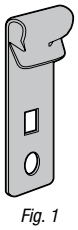


Fig. 1

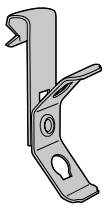
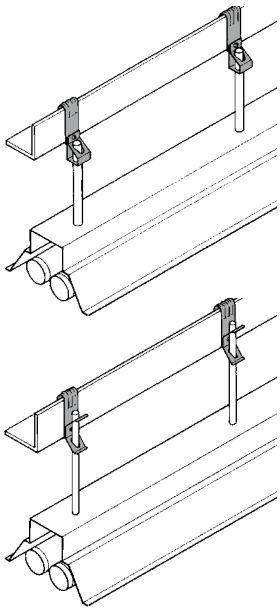


Fig. 2



## Hangers

# Plain and Threaded Rod Hangers

- Used to suspend #8 wire, ¼" or ⅜" plain rod or ¼" or ⅜" threaded rod from beam flanges ⅛" to ¾" thick
- Supports 200 lbs. static load limit
- Installs easily with a hammer

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-HB8-F1/4 | 1 | Rod/wire to beam hanger, ⅛"–¼" flange, #8 wire | 200 | 25 |
| SSF-HB8-F1/2 | 1 | Rod/wire to beam hanger, 5⁄16"–½" flange, #8 wire | 200 | 25 |
| SSF-HB8-F3/4 | 1 | Rod/wire to beam hanger, 9⁄16"–¾" flange, #8 wire | 200 | 25 |
| SSF-HB1/4-F1/4 | 1 | Rod/wire to beam hanger, ⅛"–¼" flange, ¼" plain rod | 200 | 25 |
| SSF-HB1/4-F1/2 | 1 | Rod/wire to beam hanger, 5⁄16"–½" flange, ¼" plain rod | 200 | 25 |
| SSF-HB1/4-F3/4 | 1 | Rod/wire to beam hanger, 5⁄16"–¾" flange, ¼" plain rod | 200 | 25 |
| SSF-HB3/8-F1/4 | 1 | Rod/wire to beam hanger, ⅛"–¼" flange, ⅜" plain rod | 200 | 25 |
| SSF-HB3/8-F1/2 | 1 | Rod/wire to beam hanger, 5⁄16"–½" flange, ⅜" plain rod | 200 | 25 |
| SSF-HB3/8-F3/4 | 1 | Rod/wire to beam hanger, 9⁄16"–¾" flange, ⅜" plain rod | 200 | 25 |
| SSF-HA1/4-F1/4T | 2 | Hammer-on rod hanger, ⅛"–¼" flange, ¼" threaded rod | 200 | 25 |
| SSF-HA1/4-F1/2T | 2 | Hammer-on rod hanger, 5⁄16"–½" flange, ¼" threaded rod | 200 | 25 |
| SSF-HA1/4-F3/4T | 2 | Hammer-on rod hanger, 9⁄16"–¾" flange, ¼" threaded rod | 200 | 25 |
| SSF-HA3/8-F1/4T | 2 | Hammer-on rod hanger, ⅛"–¼" flange, ⅜" threaded rod | 200 | 25 |
| SSF-HA3/8-F1/2T | 2 | Hammer-on rod hanger, 5⁄16"–½" flange, ⅜" threaded rod | 200 | 25 |
| SSF-HA3/8-F3/4T | 2 | Hammer-on rod hanger, 9⁄16"–¾" flange, ⅜" threaded rod | 200 | 25 |
| SSF-HA3/8-F1/4 | 2 | Rod/wire to beam hanger, ⅛"–¼" flange, ¼" or ⅜" threaded rod | 200 | 25 |
| SSF-HA3/8-F1/2 | 2 | Rod/wire to beam hanger, 5⁄16"–½" flange, ¼" or ⅜" threaded rod | 200 | 25 |
| SSF-HA3/8-F3/4 | 2 | Rod/wire to beam hanger, 9⁄16"–¾" flange, ¼" or ⅜" threaded rod | 200 | 25 |

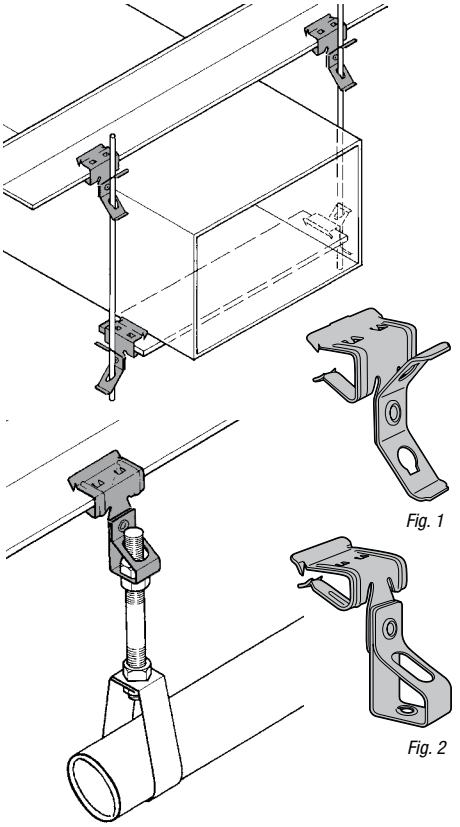


Fig. 1

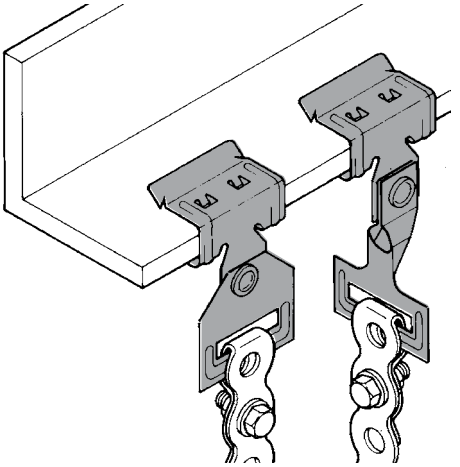
Fig. 2

# Strap Hanger Clips

- Accepts strap widths up to 1⅛"
- Can be attached to a wide variety of products
- Supports 100 lbs. static load limit
- Clips are made from galvanized steel



Fig. 1 Fig. 2 Fig. 3 Fig. 4



| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-HS | 1 | Strap hanger clip | 200 | 100 |
| SSF-HR | 2 | Strap hanger clip, right angle | 200 | 100 |
| SSF-HR-F1/4 | 3 | Strap hanger clip, right angle, ⅛"–¼" flange thickness | 200 | 25 |
| SSF-HR-F1/2 | 3 | Strap hanger clip, right angle, 5⁄16"–½" flange thickness | 200 | 25 |
| SSF-HR-F3/4 | 3 | Strap hanger clip, right angle, 9⁄16"–¾" flange thickness | 200 | 25 |
| SSF-HS-F1/4 | 4 | Strap hanger clip, flange thickness ⅛"–¼" | 200 | 25 |
| SSF-HS-F1/2 | 4 | Strap hanger clip, flange thickness 5⁄16"–½" | 200 | 25 |
| SSF-HS-F3/4 | 4 | Strap hanger clip, flange thickness 5⁄16"–¾" | 200 | 25 |



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## Hangers

# Rod and Wire Hangers

- Offset bracket suspends plain rod, threaded rod or wire drops from laminated wood or concrete beams, joists, ceilings and walls
- Angle bracket suspends plain rod, threaded rod or wire drops from laminated wood or concrete beams, joists, ceilings and walls
- Supports 160 lbs. static load limit

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-HB8-OB | 1 | Rod & wire hanger with offset bracket, #8 wire | 160 | 25 |
| SSF-HB1/4-OB | 1 | Rod & wire hanger with offset bracket, ¼" plain rod | 160 | 25 |
| SSF-HB3/8-OB | 1 | Rod & wire hanger with offset bracket, ⅜" plain rod | 160 | 25 |
| SSF-HA1/4-OBT | 2 | Rod & wire hanger with offset bracket, ¼" threaded rod | 160 | 25 |
| SSF-HA3/8-OBT | 2 | Rod & wire hanger with offset bracket, ⅜" threaded rod | 160 | 25 |
| SSF-HA3/8-OB | 2 | Rod & wire hanger with offset bracket, ¼"– ⅜" threaded rod, nuts required | 160 | 25 |

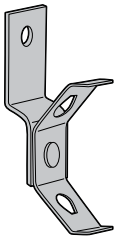


Fig. 1

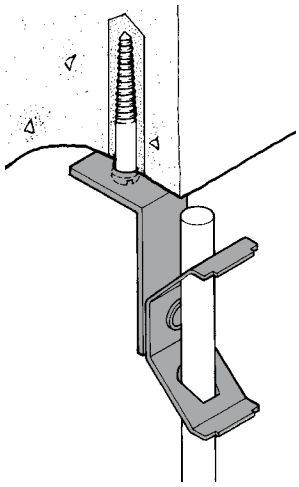




Fig. 2

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-HB8-AB | 1 | Rod & wire angle bracket, #8 wire | 160 | 25 |
| SSF-HB1/4-AB | 1 | Rod & wire single bracket hanger, ¼" plain rod | 160 | 25 |
| SSF-HB3/8-AB | 1 | Rod & wire angle bracket hanger, ⅜" plain rod | 160 | 25 |
| SSF-HA1/4-ABT | 2 | Rod & wire hanger with angle bracket, ¼" threaded rod | 160 | 25 |
| SSF-HA3/8-ABT | 2 | Rod & wire hanger with angle bracket, ⅜" threaded rod | 160 | 25 |
| SSF-HA3/8-AB | 2 | Rod & wire angle bracket hanger, ¼"–⅜" threaded rod, nuts required | 160 | 25 |

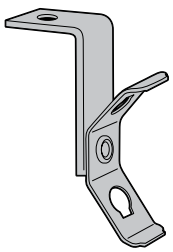


Fig. 1

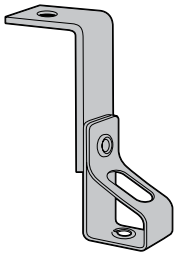


Fig. 2

# Miscellaneous Hangers

- Rod hanger available for ¼" and ⅜" threaded rod with or without thread impression



Fig. 1



Fig. 2



Fig. 3

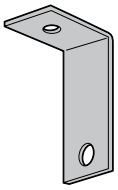


Fig. 4



Fig. 5



Fig. 6

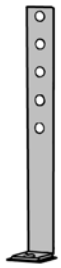
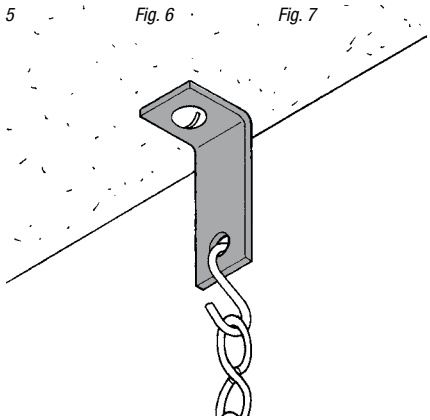


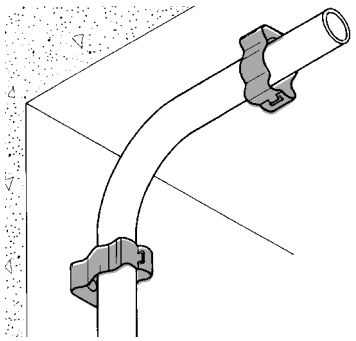
Fig. 7

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-HB8 | 1 | Rod & wire hanger, #8 wire | 160 | 100 |
| SSF-HB1/4 | 1 | Rod & wire hanger, ¼" plain rod | 160 | 100 |
| SSF-HB3/8 | 1 | Rod & wire hanger, ⅜" plain rod | 160 | 100 |
| SSF-HA3/8 | 2 | Rod & wire hanger, ¼"–⅜" threaded rod, nuts required | 160 | 100 |
| SSF-HA1/4T | 2 | Rod & wire hanger with thread impression, ¼" threaded rod | 160 | 100 |
| SSF-HA3/8T | 2 | Rod & wire hanger with thread impression, ⅜" threaded rod | 160 | 100 |
| SSF-HOB | 3 | Offset bracket with ¼" hole | 160 | 100 |
| SSF-HAB | 4 | Angle bracket with ¼" hole | 160 | 100 |
| SSF-HSAB | 5 | Short angle bracket with ¼" hole | 160 | 100 |
| SSF-HFB | 6 | Flat bracket with ¼" hole | 160 | 100 |
| SSF-MA7 | 7 | For T-grid, with 1" snap-in conduit clip | | 100 |



# Conduit Clips

- Available for ⅜" through 2" trade sizes for EMT, flexible conduit and MC/AC cable
- Available with either a plain hole for ¼" bolt or a ¼–20 thread impression
- Shape of clip and clasp mechanism enables hand installation (no tools needed)
- Unique clasp design has an aggressively angled tab and receiving hole to provide consistent, easy clasping of the clip
- Supports 100 lbs. static load limit in the vertical position. Supports 25 lbs. static load limit in the horizontal position
- Unique finger grips on the ends of the clip provide easy grip for hand installation, or easy plier grip when using pliers to install



| CAT. NO. | FIG. NO. | CONDUIT SIZE | MOUNTING HOLE | STD. CTN. |
|---|---|---|---|---|
| SSF-CC3/8 | 1 | 14-2 through 12-3 MC/AC cable & ⅜" conduits | 9/32" plain | 100 |
| SSF-CC1/2 3/4 | 1 | ½"–¾" | 9/32" plain | 100 |
| SSF-CC1 | 1 | 1" | 9/32" plain | 100 |
| SSF-CC1 1/4 | 1 | 1¼" | 9/32" plain | 100 |
| SSF-CC1 1/2 | 1 | 1½" | 9/32" plain | 100 |
| SSF-CC2 | 1 | 2" | 9/32" plain | 100 |
| SSF-CC3/8T | 1 | 14-2 through 12-3 MC/AC cable & ⅜" MC/AC conduits | ¼–20 thread impression | 100 |
| SSF-CC1/2 3/4T | 1 | ½"–¾" | ¼–20 thread impression | 100 |
| SSF-CC1T | 1 | 1" | ¼–20 thread impression | 100 |
| SSF-CC1 1/4T | 1 | 1¼" | ¼–20 thread impression | 100 |
| SSF-CC1 1/2T | 1 | 1½" | ¼–20 thread impression | 100 |
| SSF-CC2T | 1 | 2" | ¼–20 thread impression | 100 |

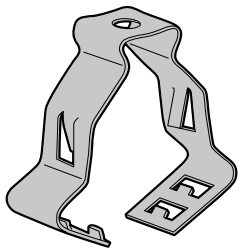


*Fig. 1*

- Available for ½" through 1" EMT and rigid conduit
- Available with either a plain hole for ¼" bolt or a ¼–20 thread impression
- Supports ultimate static load limit of 25 lbs. in the vertical position.
- Supports ultimate static load limit of 15 lbs. in the horizontal position

| CAT. NO. | FIG. NO. | CONDUIT SIZE (IN.) | MOUNTING HOLE | STD. CTN. |
|---|---|---|---|---|
| SSF-CS1/2 | 1 | ½ | 9/32" plain | 100 |
| SSF-CS3/4 | 1 | ¾ | 9/32" plain | 100 |
| SSF-CS1 | 1 | 1 | 9/32" plain | 100 |
| SSF-CS1/2T | 1 | ½ | ¼–20 thread impression | 100 |
| SSF-CS3/4T | 1 | ¾ | ¼–20 thread impression | 100 |
| SSF-CS1T | 1 | 1 | ¼–20 thread impression | 100 |

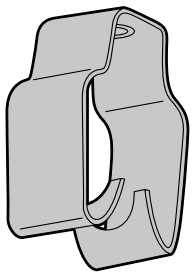


*Fig. 1*



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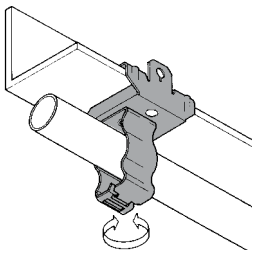
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## Flange-Mount Conduit Clips

- Available with Spring Steel Conduit Clip, bottom mounted or side mounted
- Available for ⅜" through 2" trade sizes for EMT, rigid, flexible conduit and MC/AC cable
- Fits beam flanges ⅛" through ¾" thick
- Will pivot through 360°
- Fig. 1 supports 75 lbs. static load limit
- Fig. 2 supports 25 lbs. static load limit
- Installs easily with a hammer and pliers



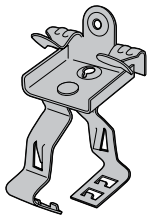


Fig. 1

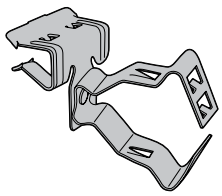


Fig. 2

| CAT. NO. | FIG. NO. | CAT. NO. | FIG. NO. | DESCRIPTION |
|---|---|---|---|---|
| SSF-CC3/8-H1/4 | 1 | SSF-CC3/8-F1/4 | 2 | ⅜" conduit, MC/AC cable to ⅛" to ¼" flanges, 14-2 through 12-3 MC/AC cable and ⅜" conduits |
| SSF-CC1/2 3/4-H1/4 | 1 | SSF-CC1/2 3/4-F1/4 | 2 | ½" conduit to ¾" conduit to ⅛" to ¼" flanges |
| SSF-CC1-H1/4 | 1 | SSF-CC1-F1/4 | 2 | 1" conduit to ⅛" to ¼" flanges |
| SSF-CC1 1/4-H1/4 | 1 | SSF-CC1 1/4-F1/4 | 2 | 1¼" conduit to ⅛" to ¼" flanges |
| SSF-CC1 1/2-H1/4 | 1 | SSF-CC1 1/2-F1/4 | 2 | 1½" conduit to ⅛" to ¼" flanges |
| SSF-CC2-H1/4 | 1 | SSF-CC2-F1/4 | 2 | 2" conduit to ⅛" to ¼" flanges |
| SSF-CC3/8-H1/2 | 1 | SSF-CC3/8-F1/2 | 2 | ⅜" conduit, MC/AC cable to 5⁄16" to ½" flanges, 14-2 through 12-3 MC/AC cable and ⅜" conduits |
| SSF-CC1/2 3/4-H1/2 | 1 | SSF-CC1/2 3/4-F1/2 | 2 | ½" conduit to ¾" conduit to 5⁄16" to ½" flanges |
| SSF-CC1-H1/2 | 1 | SSF-CC1-F1/2 | 2 | 1" conduit to 5⁄16" to ½" flanges |
| SSF-CC1 1/4-H1/2 | 1 | SSF-CC1 1/4-F1/2 | 2 | 1¼" conduit to 5⁄16" to ½" flanges |
| SSF-CC1 1/2-H1/2 | 1 | SSF-CC1 1/2-F1/2 | 2 | 1½" conduit to 5⁄16" to ½" flanges |
| SSF-CC2-H1/2 | 1 | SSF-CC2-F1/2 | 2 | 2" conduit to 5⁄16" to ½" flanges |
| SSF-CC3/8-H3/4 | 1 | SSF-CC3/8-F3/4 | 2 | ⅜" conduit, MC/AC cable to 9⁄16" to ¾" flanges, 14-2 through 12-3 MC/AC cable and ⅜" conduits |
| SSF-CC1/2 3/4-H3/4 | 1 | SSF-CC1/2 3/4-F3/4 | 2 | ½" conduit to ¾" conduit to 9⁄16" to ¾" flanges |
| SSF-CC1-H3/4 | 1 | SSF-CC1-F3/4 | 2 | 1" conduit to 9⁄16" to ¾" flanges |
| SSF-CC1 1/4-H3/4 | 1 | SSF-CC1 1/4-F3/4 | 2 | 1¼" conduit to 9⁄16" to ¾" flanges |
| SSF-CC1 1/2-H3/4 | 1 | SSF-CC1 1/2-F3/4 | 2 | 1½" conduit to 9⁄16" to ¾" flanges |
| SSF-CC2-H3/4 | 1 | SSF-CC2-F3/4 | 2 | 2" conduit to 9⁄16" to ¾" flanges |

*Package quantity of 25 per box.*

## Flange-Mount Snap-In Conduit Clip

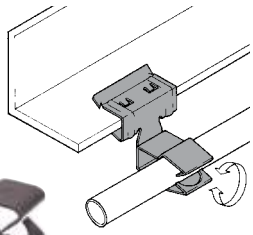
- Available with Spring Steel Conduit Clip, bottom mounted or side mounted
- Available for ½" through 1" EMT and rigid conduit
- Fits beam flanges ⅛" through ¾" thick
- Will pivot 360°
- Fig. 1 supports 25 lbs. static load limit
- Fig. 2 supports 15 lbs. static load limit
- Requires only hammer to install



Fig. 1



Fig. 2



| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-CS1/2-H1/4 | 1 | ½" conduit to ⅛" to ¼" flanges | 25 | 25 |
| SSF-CS3/4-H1/4 | 1 | ¾" conduit to ⅛" to ¼" flanges | 25 | 25 |
| SSF-CS1-H1/4 | 1 | 1" conduit to ⅛" to ¼" flanges | 25 | 25 |
| SSF-CS1/2-H1/2 | 1 | ½" conduit to 5⁄16" to ½" flanges | 25 | 25 |
| SSF-CS3/4-H1/2 | 1 | ¾" conduit to 5⁄16" to ½" flanges | 25 | 25 |
| SSF-CS1-H1/2 | 1 | 1" conduit to 5⁄16" to ½" flanges | 25 | 25 |
| SSF-CS1/2-H3/4 | 1 | ½" conduit to 9⁄16" to ¾" flanges | 25 | 25 |
| SSF-CS3/4-H3/4 | 1 | ¾" conduit to 5⁄16" to ½" flanges | 25 | 25 |
| SSF-CS1-H3/4 | 1 | 1" conduit to 5⁄16" to ½" flanges | 25 | 25 |

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-CS1/2-F1/4 | 2 | ½" conduit to ⅛" to ¼" flanges | 15 | 25 |
| SSF-CS3/4-F1/4 | 2 | ¾" conduit to ⅛" to ¼" flanges | 15 | 25 |
| SSF-CS1-F1/4 | 2 | 1" conduit to ⅛" to ¼" flanges | 15 | 25 |
| SSF-CS1/2-F1/2 | 2 | ½" conduit to 5⁄16" to ½" flanges | 15 | 25 |
| SSF-CS3/4-F1/2 | 2 | ¾" conduit to 5⁄16" to ½" flanges | 15 | 25 |
| SSF-C1-F1/2 | 2 | 1" conduit to 5⁄16" to ½" flanges | 15 | 25 |
| SSF-CS1/2-F3/4 | 2 | ½" conduit to 9⁄16" to ¾" flanges | 15 | 25 |
| SSF-CS3/4-F3/4 | 2 | ¾" conduit to 5⁄16" to ½" flanges | 15 | 25 |
| SSF-CS1-F3/4 | 2 | 1" conduit to 5⁄16" to ½" flanges | 15 | 25 |

## Multi-Function Utility Clip from Drop Wire or Flange

- Attaches to #12 wire through ⅜" rod
- Fits ⅛" to ⅜" flanges
- Provides attachment for conduit and boxes
- Supports #10-24 and ¼–20 threaded bridle rings
- Assemblies support ½", ¾" and 1" EMT and rigid conduit
- Also attaches to ¼" and ⅜" threaded rod

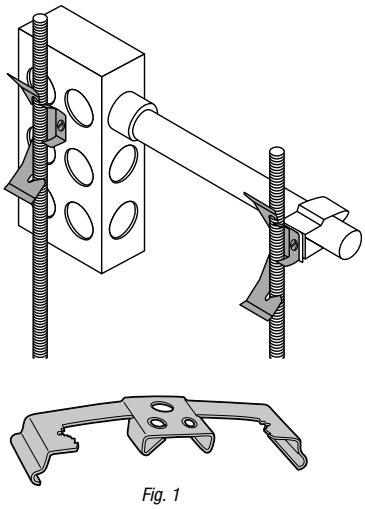




Fig. 1

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-CUC | 1 | Multi-function utility clip | 50 | 100 |
| SSF-CUC-S1/2 | 2 | Utility clip to ½" conduit | 15 | 25 |
| SSF-CUC-S3/4 | 2 | Utility clip to ¾" conduit | 15 | 25 |
| SSF-CUC-S1 | 2 | Utility clip to 1" conduit | 15 | 25 |
| SSF-CUC-C1/2 3/4 | 3 | Utility clip to ½" or ¾" conduit | 25 | 25 |
| SSF-CUC-C1 | 3 | Utility clip to 1" conduit | 25 | 25 |



Fig. 2

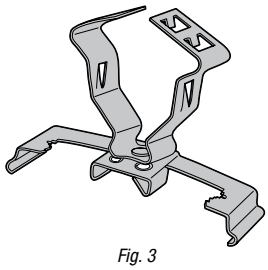


Fig. 3

## Cable from Drop Wire Support

- Exclusive slot keeps drop wire centered
- Will not bend or deform drop wire
- Delivers faster installation
- Supports MC/AC, 14-2 through 12-3 cable and ½" EMT (.433"–.706" O.D.) from #8–#12 wire and ¼" plainand threaded rod
- Eliminates the need to trap cable against drop wire
- Supports 25 lbs. static load limit
- No tools required



Fig. 1

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-CB706 | 1 | Cable from drop wire support | 25 | 100 |



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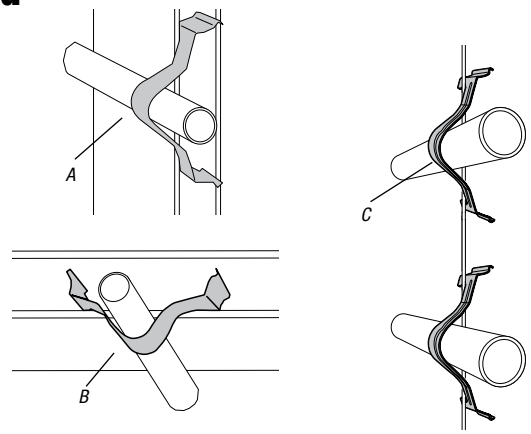
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## Conduit Hangers from Flange, Wire or Rod

- CK Series attaches conduit (EMT, Rigid, ENT and Aluminum) to drop wire, rods or flanges
- Application A (vertical flange) supports 25 lbs. static load limit
- Application B (horizontal flange) supports 100 lbs. static load limit
- Application C (vertical drop wire) supports 50 lbs. static load limit




| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-CK1/2 | 1 | Conduit hangers for flange, wire or rod | 100 |
| SSF-CK3/4 | 1 | Conduit hangers for flange, wire or rod | 100 |
| SSF-CK1 | 2 | Conduit hangers for flange, wire or rod | 100 |

### Wire/Rod

| CONDUIT SIZE | #10 & #12 WIRE | #8 & #9 WIRE | 3/16" PLAIN ROD | 1/4" PLAIN & THREADED ROD | 3/8" PLAIN & THREADED ROD |
|---|---|---|---|---|---|
| 1/2 EMT | CK1/2 | CK1/2 | CK1/2 | CK1/2 | CK3/4 |
| 1/2 Rigid | CK1/2 | CK1/2 | CK1/2 | CK3/4 | CK3/4 |
| 3/4 EMT | CK3/4 | CK3/4 | CK3/4 | CK3/4 | CK1 |
| 3/4 Rigid | CK3/4 | CK3/4 | CK3/4 | CK1 | CK1 |
| 1 EMT | — | CK1 | CK1 | CK1 | CK1 |
| 1 Rigid | — | CK1 | CK1 | CK1 | — |

### Flange

| CONDUIT SIZE | 1/8" FLANGE | 3/16"–1/4" FLANGE | 5/16"–3/8" FLANGE | 7/16"–1/2" FLANGE |
|---|---|---|---|---|
| 1/2 EMT | CK1/2 | CK1/2 | CK3/4 | CK3/4 |
| 1/2 Rigid | CK1/2 | CK3/4 | CK3/4 | CK1 |
| 3/4 EMT | CK3/4 | CK3/4 | CK1 | CK1 |
| 3/4 Rigid | CK3/4 | CK1 | CK1 | CK1 |
| 1 EMT | CK1 | CK1 | CK1 | CK1 |
| 1 Rigid | CK1 | CK1 | — | — |

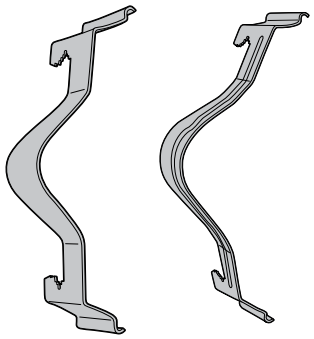


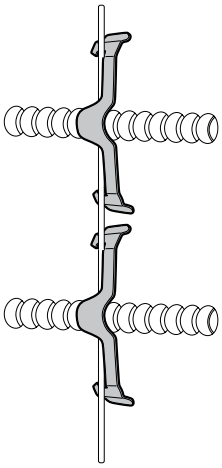
Fig. 1 Fig. 2

## Flexible Conduit Hangers from Drop Wire

- One-piece construction
- Can be used in vertical or horizontal positions
- Fits 14-2 through 12-3 armored cable (.433"–.535" outer diameter)
- No load rating — for positioning only
- No installation tools required



Fig. 1



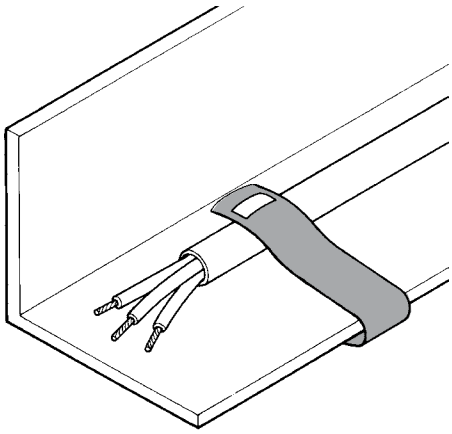
| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-CK535 | 1 | Flexible conduit hanger from drop wire, #8–#12 wire, .433"–.535" O.D. cable | 100 |

## Conduit and Cable Supports

# Cable Snap Clip

- Supports cable from 1/16"–1/2" flange
- Works with MC and AC cable dimensions .178" to 1.250"
- Snaps easily onto flange
- Cable snaps right into fastener
- No load rating — for positioning only
- Installs easily with a hammer

| CAT. NO. | FIG. NO. | CABLE O.D. (IN.) | FLANGE THICKNESS (IN.) | STD. CTN. |
|---|---|---|---|---|
| SSF-CES218 | 1 | .178–.218 | 1/16–3/16 | 100 |
| SSF-CES281 | 1 | .218–.276 | 1/16–3/16 | 100 |
| SSF-CES375 | 1 | .312–.375 | 1/16–3/16 | 100 |
| SSF-CES437 | 1 | .375–.437 | 1/16–3/16 | 100 |
| SSF-CES562 | 1 | .468–.562 | 1/16–3/16 | 100 |
| SSF-CES718 | 1 | .600–.718 | 1/16–3/16 | 100 |
| SSF-CES937 | 1 | .750–.937 | 1/16–3/16 | 100 |
| SSF-CES1250 | 1 | .968–1.250 | 1/16–3/16 | 100 |
| SSF-CEM218 | 1 | .178–.218 | 3/16–9/32 | 100 |
| SSF-CEM281 | 1 | .218–.276 | 3/16–9/32 | 100 |
| SSF-CEM375 | 1 | .312–.375 | 3/16–9/32 | 100 |
| SSF-CEM437 | 1 | .375–.437 | 3/16–9/32 | 100 |
| SSF-CEM562 | 1 | .468–.562 | 3/16–9/32 | 100 |
| SSF-CEM718 | 1 | .600–.718 | 3/16–9/32 | 100 |
| SSF-CEM937 | 1 | .750–.937 | 3/16–9/32 | 100 |
| SSF-CEM1250 | 1 | .968–1.250 | 3/16–9/32 | 100 |
| SSF-CEL218 | 1 | .178–.218 | 5/16–1/2 | 100 |
| SSF-CEL281 | 1 | .218–.276 | 5/16–1/2 | 100 |
| SSF-CEL375 | 1 | .312–.375 | 5/16–1/2 | 100 |
| SSF-CEL437 | 1 | .375–.437 | 5/16–1/2 | 100 |
| SSF-CEL562 | 1 | .468–.562 | 5/16–1/2 | 100 |
| SSF-CEL718 | 1 | .600–.718 | 5/16–1/2 | 100 |
| SSF-CEL937 | 1 | .750–.937 | 5/16–1/2 | 100 |
| SSF-CEL1250 | 1 | .968–1.250 | 5/16–1/2 | 100 |
| SSF-CF1/8 | 2 | .200–.468 | 1/8–1/4 | 100 |
| SSF-CF3/8 | 2 | .276–.600 | 5/16–7/16 | 100 |
| SSF-CAXL1 | 3 | Snap clip adapter | 1/2–5/8 | 100 |
| SSF-CAXL2 | 3 | Snap clip adapter | 5/8–3/4 | 100 |



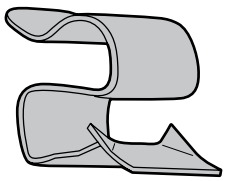


Fig. 1

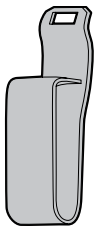


Fig. 2

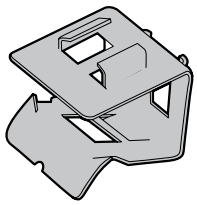


Fig. 3

# Flexible Conduit to Metal Stud

- Provides quick attachment for MC or AC to metal stud
- No load rating — for positioning only
- No tools required

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-CM535 | 1 | MC/AC cable to metal stud clip, 14-2 through 12-3 cable (.433"–.535" O.D.) | 100 |



Fig. 1



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# Conduit and Cable Supports



## Flexible Conduit and Cable Hanger

- Effectively supports three runs (CW3) or six runs (CW6) of MC/AC cable
- Can also be used like a bridle ring to support all types of low-voltage cabling
- Locking hook contains cables inside the loop

| CAT. NO. | FIG. NO. | NO. OF RUNS OF MC/AC CABLE | INNER DIAMETER (IN.) | ULTIMATE STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|---|
| SSF-CW3 | 1 | 3 | 1⅛ | 20 | 100 |
| SSF-CW6 | 1 | 6 | 1¾ | 50 | 100 |

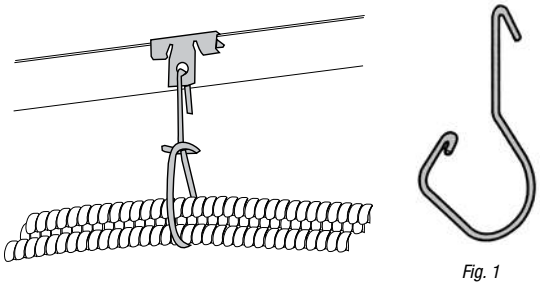


Fig. 1

## Lightweight Trapeze

- Back-to-back conduit clips for individual use
- Available for ⅜" through 2" sizes for EMT, rigid or flexible conduit and MC/AC cable
- For use as lightweight trapeze, total load limit is 100 lbs.
- Clips for vertical use, static load limit 100 lbs.
- No screws or bolts

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-CC1-C3/8 | 1 | Back-to-back conduit clips, 14-2 through 12-3 MC/AC to 1" conduit | 25 |
| SSF-CC1-C1/2 3/4 | 1 | Back-to-back conduit clips, ½" or ¾" conduit to 1" conduit | 25 |
| SSF-CC1-C1 | 1 | Back-to-back conduit clips, 1" conduit to 1" conduit | 25 |
| SSF-CC1-C1 1/4 | 1 | Back-to-back conduit clips, 1¼" conduit to 1" conduit | 25 |
| SSF-CC1-C1 1/2 | 1 | Back-to-back conduit clips, 1½" conduit to 1" conduit | 25 |
| SSF-CC1-C2 | 1 | Back-to-back conduit clips, 2" conduit to 1" conduit | 25 |
| SSF-CC1/2 3/4-C1/2 3/4 | 1 | Back-to-back conduit clips, ½" or ¾" conduit | 25 |

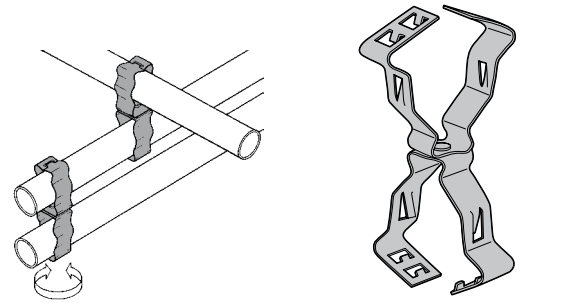
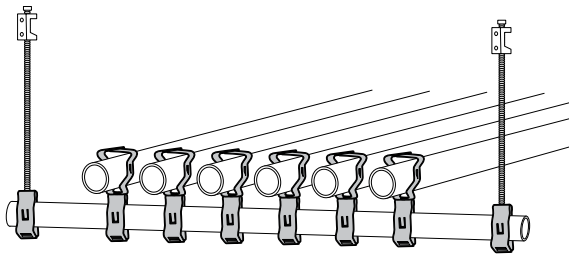


Fig. 1



## Conduit-to-Conduit Clips

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-CS1/2-S1/2 | 1 | Back-to-back snap-in conduit clip, ½" to ½" EMT or rigid | 25 | 25 |
| SSF-CS1/2-S3/4 | 1 | Back-to-back snap-in conduit clip, ½" to ¾" EMT or rigid | 25 | 25 |
| SSF-CS1/2-S1 | 1 | Back-to-back snap-in conduit clip, ½" to 1" EMT or rigid | 25 | 25 |
| SSF-CS3/4-S3/4 | 1 | Back-to-back snap-in conduit clip, ¾" to 1" EMT or rigid | 25 | 25 |
| SSF-CS3/4-S1 | 1 | Back-to-back snap-in conduit clip, ¾" to 1" EMT or rigid | 25 | 25 |
| SSF-CS1-S1 | 1 | Back-to-back snap-in conduit clip, 1" to 1" EMT or rigid | 25 | 25 |

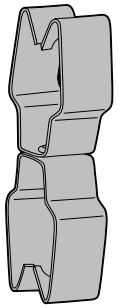
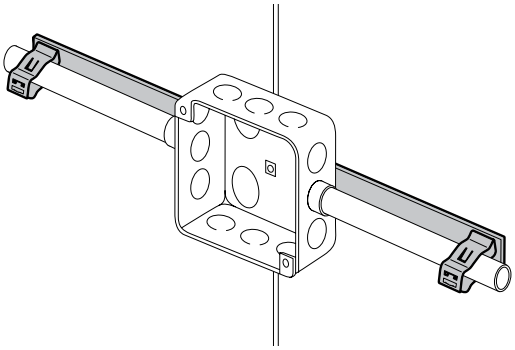


Fig. 1

# Support Box and Conduits from Single-Drop Wires, Rods and Flanges

- Supports conduit on both sides of a junction box
- Holes in opposite ends of 18" bar accommodate CC and CS Series conduit clips
- A center hole accepts BH flange clips and CVC utility clip fasteners for attachment to threaded rod

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **SSF-CX18-C3/8H1/4** | 1 | Support bar for conduit/box, MC/AC cable to 3⁄8" flex to 1⁄4" flange | 25 |
| **SSF-CX18-C3/8H1/2** | 1 | Support bar for conduit/box, MC/AC cable to 3⁄8" flex to 9⁄16" to 1⁄2" flange | 25 |
| **SSF-CX18-C1/2 3/4-H1/4** | 1 | Support bar for conduit/box, 1⁄2" & 3⁄4" conduit to 1⁄8" to 1⁄4" flange | 25 |
| **SSF-CX18-C1/2 3/4-H1/2** | 1 | Support bar for conduit/box, 1⁄2" & 3⁄4" conduit to 9⁄16" to 1⁄2" flange | 25 |
| **SSF-CX18-C1-H1/4** | 1 | Support bar for conduit/box, 1" conduit to 1⁄8" to 1⁄4" flange | 25 |
| **SSF-CX18-C1-H1/2** | 1 | Support bar for conduit/box, 1" conduit to 9⁄16" to 1⁄2" flange | 25 |
| **SSF-CX18-C3/8S** | 2 | Support bar for conduit/box, MC/AC cable to 3⁄8" flex, 1⁄4"–20 x 9⁄16" stud in center hole | 25 |
| **SSF-CX18-C1/2 3/4S** | 2 | Support bar for conduit/box, 1⁄2" to 3⁄4" conduit, 1⁄4"–20 x 9⁄16" stud in center hole | 25 |
| **SSF-CX18-C1S** | 2 | Support bar for conduit/box, 1" conduit to 3⁄8" flex, 1⁄4"–20 x 9⁄16" stud in center hole | 25 |
| **SSF-CX18-C3/8** | 3 | Support bar for conduit/box, MC/AC cable to 3⁄8" flex for screw or threaded rod mount | 25 |
| **SSF-CX18-C1/2 3/4** | 3 | Support bar for conduit/box, 1⁄2" to 3⁄4" conduit for screw or threaded rod mount | 25 |
| **SSF-CX18-C1** | 3 | Support bar for conduit/box, 1" conduit for screw or threaded rod mount | 25 |
| **SSF-CX18-C3/8UC** | 4 | Support bar for conduit/box, MC/AC cable to 3⁄8" flex from #12 wire through 3⁄8" rod | 25 |
| **SSF-CX18-C1/2 3/4UC** | 4 | Support bar for conduit/box, 1⁄2" & 3⁄4" conduit from #12 wire through 1⁄8" rod | 25 |
| **SSF-CX18-C1UC** | 4 | Support bar for conduit/box, 1" conduit from #12 wire through 3⁄8" rod | 25 |



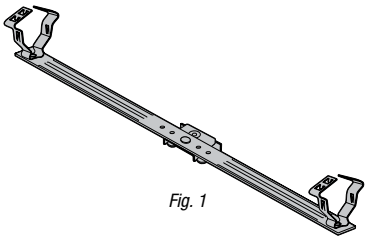


*Fig. 1*

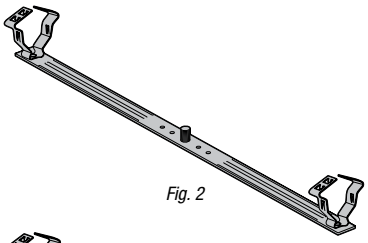


*Fig. 2*

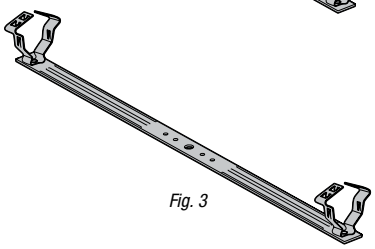


*Fig. 3*

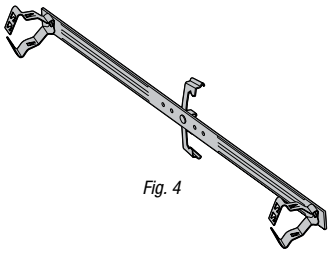


*Fig. 4*



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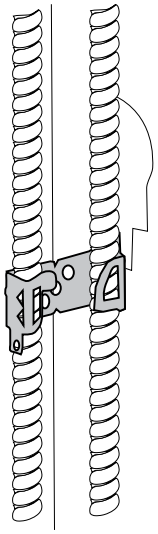
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# MC/AC Cable — Flexible Conduit

- Clips available for one-, two- or four-cable runs
- The standard CR2 part can be broken apart to create two single-cable run clips
- Mounting holes available for mounting flat or perpendicular to stud or flange
- Mounting clips for quick attachment to metal studs
- Sturdy design provides firm support of attached cable



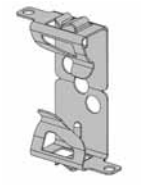
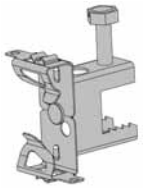
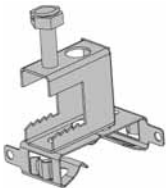
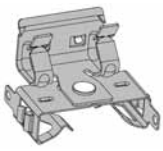

Fig. 1


Fig. 2


Fig. 3


Fig. 4


Fig. 5


Fig. 6

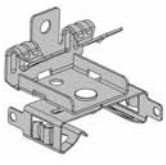
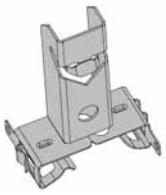

Fig. 7


Fig. 8


Fig. 9

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **SSF-CR2** | 1 | Metal or wood stud and ⅛" flange | 100 |
| **SSF-CR1** | 2 | Supports 2 runs of MC/AC cable | 100 |
| **SSF-CR4** | 3 | Supports up to 4 runs of MC/AC cable | 25 |
| **SSF-CR2-BCH** | 4 | 5/16" through ½" flange | 25 |
| **SSF-CR2-BCV** | 5 | 5/16" through ½" flange | 25 |
| **SSF-CR2-F1/2** | 6 | ⅛" through ¼" flange | 25 |
| **SSF-CR2-F1/4** | 6 | ⅛" through ¼" flange | 25 |
| **SSF-CR2-H1/2** | 7 | 1/16" through ¼" C Purlin or vertical flange | 25 |
| **SSF-CR2-H1/4** | 7 | 1/16" through ¼" C Purlin or vertical flange | 25 |
| **SSF-CR2-V1/4** | 8 | 1/16" through ¼" C Purlin or vertical flange | 25 |
| **SSF-CR2-Z2** | 9 | Z Purlin | 25 |
| **SSF-CR2-UC** | 10 | Through metal stud | 25 |
| **SSF-CR1-CV** | 11 | Acoustical tee | 25 |
| **SSF-CR2-AB** | 12 | Through metal stud | 25 |
| **SSF-CR1-UC** | 13 | Through metal stud | 25 |
| **SSF-CR1-F1/2** | 14 | 5/16" through ½" flange | 25 |
| **SSF-CR1-F1/4** | 14 | ⅛" through ¼" flange | 25 |
| **SSF-CR1-BCH** | 15 | Through ½" flange | 25 |

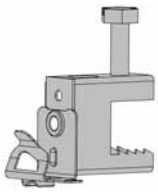

Fig. 10


Fig. 11


Fig. 12


Fig. 13


Fig. 14


Fig. 15

# Conduit and Cable Supports

## Nailing Bracket

- Attach conduit to steel, concrete or wood
- FB Series can be used to avoid offset bends when used with 1½" deep boxes
- OB Series can be used to avoid offset bends when used with 2⅛" deep boxes

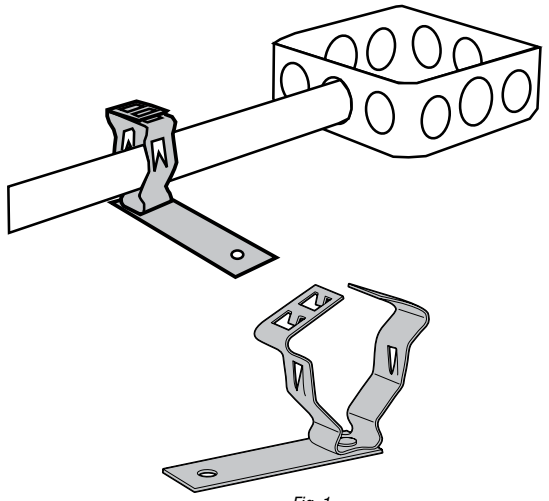


Fig. 1

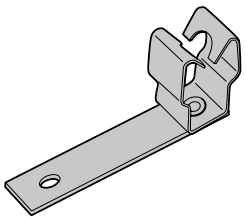


Fig. 2

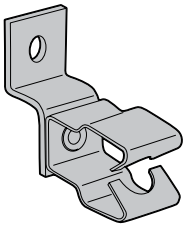
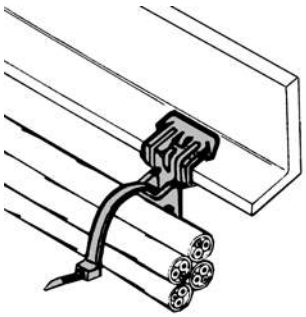


Fig. 3

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-CC1/2 3/4-FB | 1 | Nailing bracket riveted to conduit clip, ½" & ¾" conduit | 25 |
| SSF-CS1/2-FB | 2 | Nailing bracket riveted to snap-in conduit clip, ½" EMT & Rigid | 25 |
| SSF-CS3/4-FB | 2 | Nailing bracket riveted to snap-in conduit clip, ¾" EMT & Rigid | 25 |
| SSF-CS1/2-OB | 3 | Offset nailing bracket — ½" conduit | 25 |
| SSF-CS3/4-OB | 3 | Offset nailing bracket — ¾" conduit | 25 |
| SSF-CS1-OB | 3 | Offset nailing bracket — 1" conduit | 25 |

## Cable Tie Fasteners

- Secures MC/AC cable bundles and Telecom cable bundles
- 11" cable tie included



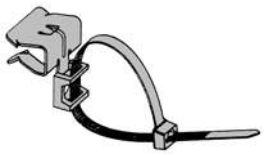


Fig. 1



Fig. 2

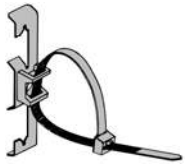


Fig. 3

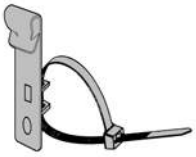


Fig. 4

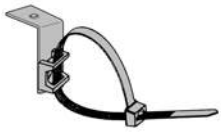


Fig. 5



Fig. 6



Fig. 7



Fig. 8

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-CT-F1/2 | 1 | 5/16" to ½" flange | 25 |
| SSF-CT-F1/4 | 1 | ⅛" to ¼" flange | 25 |
| SSF-CT-V1/4 | 2 | Through ¼" flange | 25 |
| SSF-CT-UC | 3 | Utility clip | 25 |
| SSF-CT-A1/4 | 4 | ⅛" to ¼" vertical flange | 25 |
| SSF-CT-AB | 5 | Angle bracket | 25 |
| SSF-CT-BC | 6 | Through ½" flange | 25 |
| SSF-CT-CH | 7 | Acoustical tee | 25 |
| L11-120-9-C | 8 | 11" Cable Tie | 25 |



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## Cable Support

- Supports up to four runs of MC and AC cable and up to six runs of non-metallic sheathed cable
- Installs with nails, staples or sheet metal screws
- Complies with NEC® Section 300.4 for all wood and metal studs
- Made with high-strength plastic

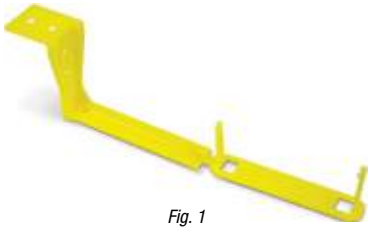
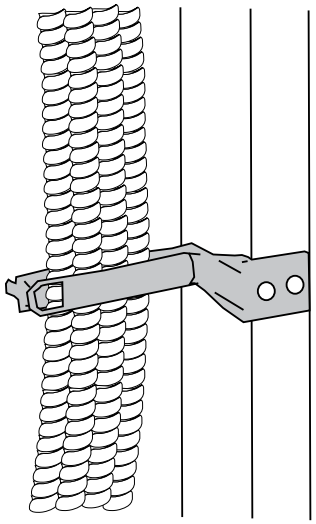


*Fig. 1*



| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SC6 | 1 | Non-metallic sheathed MC/AC cable to stud clip | 100 |

| CABLE TYPE | CABLE SIZE | MAX. QTY./ FASTENER |
|---|---|---|
| Non-Metallic Sheathed Cable | 14-2, 12-2, 10-2, 14-3, 12-3 and 10-3 with ground | 6 |
| Non-Metallic | 8-2 and 6-2 with ground | 4 |
| Metallic Clad (MC) Cable | 14-2, 12-2, 10-2, 14-3, 12-3, 10-3, 14-4, 12-4 and 10-4 with ground | 4 |
| Armored Cable (AC) | 14-4, 12-2, 10-2, 8-2, 14-3, 12-3, 10-3, 14-4, 12-4 and 10-4 with ground | 4 |
| Flexible Conduit (BX) | 5/16, 3/8 | 4 |

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## Screw-On Conduit Support

- Supports ½" and ¾" EMT conduit and MC/AC cable
- Works with wood or metal stud
- Preset bend provides alignment with knockouts for 1½" deep boxes or 2⅛" deep boxes

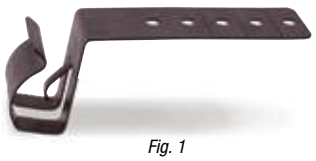
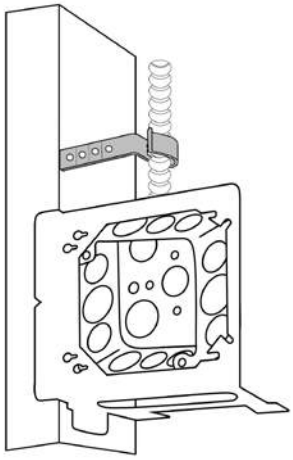


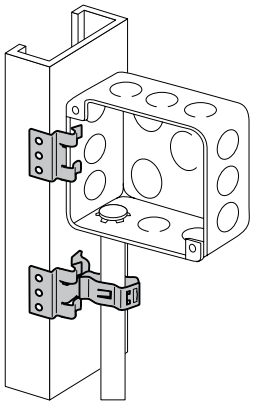
*Fig. 1*



| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SS1/2 3/4 | 1 | ½" and ¾" EMT conduit and MC/AC to metal or wood stud, for 1½" deep box | 100 |
| SSF-SS1/2 3/4D | 1 | ½" and ¾" EMT conduit, and MC/AC to metal or wood stud, for 2⅛" deep box | 100 |

## Snap-On Box Clip

- Fits most electrical boxes requiring plaster rings
- Fits most metal stud sizes
- Will not move on stud
- Wider part for more secure fastening
- No screws required
- Support leg braces box against stud
- Installs easily with a hammer



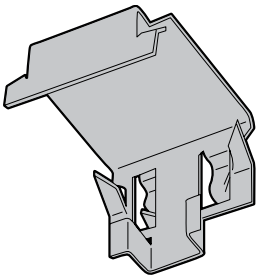


Fig. 1

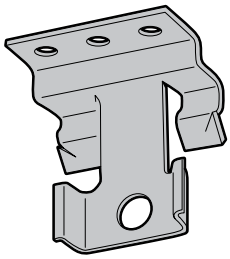


Fig. 2

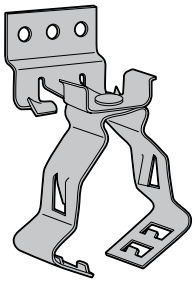


Fig. 3

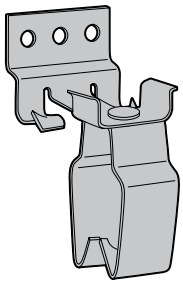
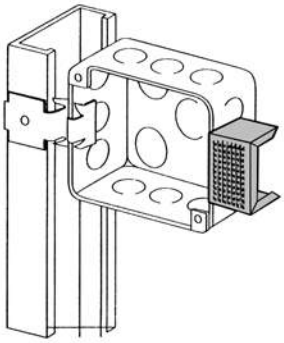


Fig. 4

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SMX | 1 | Snap-on box support for mounting to stud | 100 |
| SSF-SK | 2 | Screw to stud, box support | 100 |
| SSF-SK-C1/2 3/4 | 3 | ½"–¾" finger-close conduit clip | 25 |
| SSF-SK-C1 | 3 | 1" finger-close conduit clip | 25 |
| SSF-SK-S1/2 | 4 | ½" snap-in conduit clip | 25 |
| SSF-SK-S3/4 | 4 | ¾" snap-in conduit clip | 25 |
| SSF-SK-S1 | 4 | 1" snap-in conduit clip | 25 |

## Far-Side Box Support

- Provides side support for electrical boxes
- Works with most electrical boxes for 2½", 3½" and 4" metal stud depths



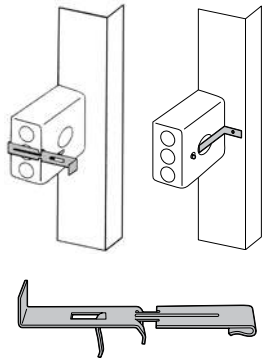


Fig. 1

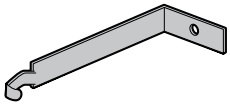


Fig. 2

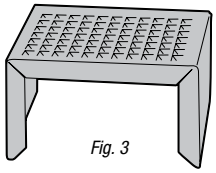


Fig. 3

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SS1-TB | 1 | Far-side box support | 100 |
| 50 | 2 | Box brace for 4" square or octagonal box | 100 |
| SSF-SX | 3 | Electrical box support | 100 |



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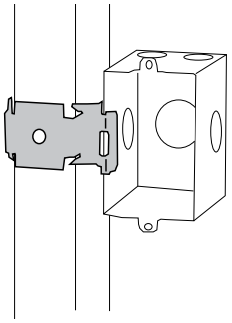
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## Switch Box or Conduit to Metal Stud

- Attaches securely to most metal stud sizes
- Adjustable offset enables the box to protrude through drywall sizes: ¼", ⅜", ½", ⅝" or ¾"
- Riveted to accommodate your drywall requirements

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SFA | 1 | Snap-on box support for mounting to stud, adjustable | 25 |
| SSF-SF0 | 2 | Snap-on box support for mounting to stud, riveted for flush-to-stud face | 25 |
| SSF-SF1/4 | 2 | Snap-on box support for mounting to stud, riveted for ¼" drywall | 25 |
| SSF-SF3/8 | 2 | Snap-on box support for mounting to stud, riveted for ⅜" drywall | 25 |
| SSF-SF1/2 | 2 | Snap-on box support for mounting to stud, riveted for ½" drywall | 25 |
| SSF-SF5/8 | 2 | Snap-on box support for mounting to stud, riveted for ⅝" drywall | 25 |
| SSF-SF3/4 | 2 | Snap-on box support for mounting to stud, riveted for ¾" drywall | 25 |
| SSF-SFT | 3 | Snap-on box support for mounting to stud with ¼"–20 thread impression | 25 |
| SSF-SF-S1/2 | 4 | Snap-on stud, push-in conduit clip, ½" conduit | 25 |
| SSF-SF-S3/4 | 4 | Snap-on stud, push-in conduit clip, ¾" conduit | 25 |
| SSF-SF-S1 | 4 | Snap-on stud, push-in conduit clip, 1" conduit | 25 |
| SSF-SF-C3/8 | 5 | Snap-on stud, conduit support clip, ⅜" conduit or MC/AC cable | 25 |
| SSF-SF-C1/2 3/4 | 5 | Snap-on stud, conduit support clip, ½"–¾" conduit | 25 |
| SSF-SF-C1 | 5 | Snap-on stud, conduit support clip, 1" conduit | 25 |



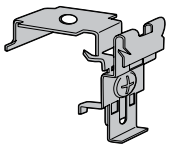


Fig. 1

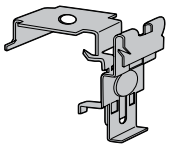


Fig. 2

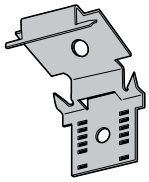


Fig. 3

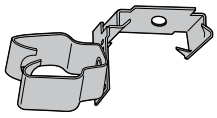


Fig. 4

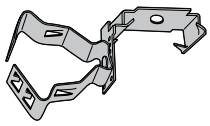
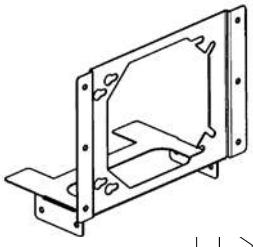


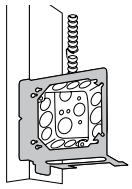
Fig. 5

## Mounting Bracket

- Attaches 4" and 4$^{11}/_{16}$" electrical boxes to metal stud
- Support leg can be attached to stud to eliminate movement of box in wall
- Attaches to metal or wood stud using self-tapping screws and screw gun or nails
- One part mounts boxes for 1½", 2½", 3½", 4" and 6" stud, which means less inventory
- SH4 and SH6 brackets available specifically for 4" and 6" studs, respectively

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SH2346 | 1 | 4" & 4$^{11}/_{16}$" outlet boxes to 2½", 3½", 4" & 6" metal studs | 100 |
| SSF-SH4 | 2 | 4" & 4$^{11}/_{16}$" outlet boxes to 4" metal studs | 50 |
| SSF-SH6 | 2 | 4" & 4$^{11}/_{16}$" outlet boxes to 6" metal studs | 50 |





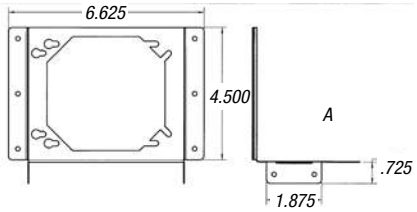
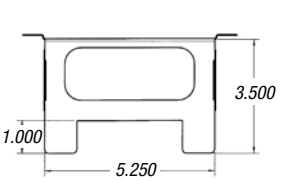



Fig.1
SSF-SH2346



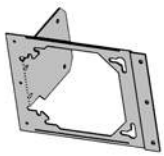
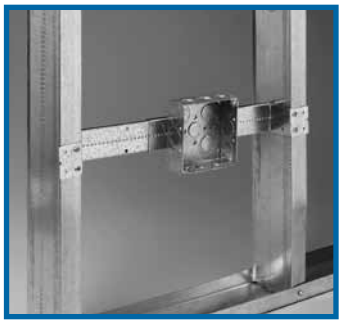



Fig.2
SSF-SH2346

# Stud Wall/Drywall Supports, Clips and Brackets

## Screw Gun Box Bracket



- Self-tapping screws are aligned with the dimples so that the box is straight
- Enables mounting of multiple boxes
- Preset for metal stud 16" or 24" on center
- Depth set for 1½"- or 2⅛"-deep electrical box
- Installs easily with a screw gun
- SGP and SGA brackets have adjustable tabs for 1½" or 2⅛" deep boxes
- SGA brackets adjustable for non-standard stud spacing



| CAT. NO. | FIG. NO. | DESCRIPTION | STUD SPACING (IN.) | BOX DEPTH (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **SSF-SG1-16** | 1 | Preset box bracket | 16 | 1½ | 50 |
| **SSF-SG1-24** | 1 | Preset box bracket | 24 | 1½ | 50 |
| **SSF-SG16A** | 2 | Adjustable box bracket | 11–18 | 1½ or 2⅛ | 50 |
| **SSF-SG2-16** | 1 | Preset box bracket | 16 | 2⅛ | 50 |
| **SSF-SG2-24** | 1 | Preset box bracket | 24 | 2⅛ | 50 |
| **SSF-SG24A** | 2 | Adjustable box bracket | 17–26 | 1½ or 2⅛ | 50 |

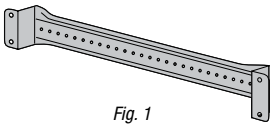


*Fig. 1*

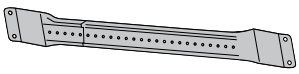
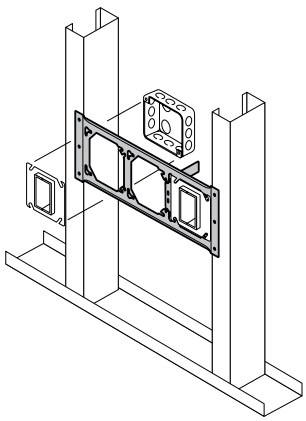


*Fig. 2*

## Box Mounting Brackets for Between Studs



- Supports electrical boxes, plaster rings or low-voltage devices from one bracket
- Accommodates 4" or 4$^{11}/_{16}$" boxes
- Bendable leg serves as a bracket stabilizer
- SB16F and SB24F flat versions enable mounting for any stud spacing, from 4" to 24"
- SB brackets enable box mounting in all four 90° orientations

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **SSF-SB16** | 1 | Box mounting bracket for between studs, 16" stud spacing | 25 |
| **SSF-SB24** | 2 | Box mounting bracket for between studs, 24" stud spacing | 25 |
| **SSF-SB16F** | 3 | Box mounting bracket, flat version, up to 16" stud spacing | 25 |
| **SSF-SB24F** | 4 | Box mounting bracket, flat version, up to 24" stud spacing | 25 |



*Fig. 1*



*Fig. 2*



*Fig. 3*



*Fig. 4*



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# Stud Wall/Drywall Supports, Clips and Brackets



## Extension Plate Bracket

- Improved bracket with bendable stabilizer leg for use on 2½" and 3½" metal studs
- Mounts outlet boxes 12" or 18" offset from either a metal stud track or a stud
- When mounted, drywall ring is brought to within ⅛" of drywall every time and will not bulge or break-out drywall
- Mounts 4" or 4$^{11}/_{16}$" outlet boxes, 1½" or 2⅛" deep
- The SSF-S6X extender works with SSF-SV12, SSF-SV18, SSF-SB16 and SSF-SB24 to extend stabilizer leg when using 6" stud
- SSF-SV18 provides compliance with Americans with Disabilities Act (ADA) requirements





Fig. 1

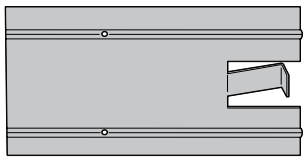
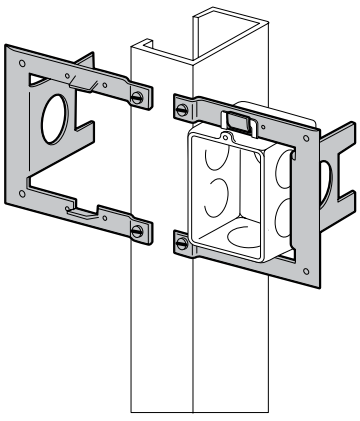


Fig. 2

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SV12 | 1 | Extension plate bracket, 12" height | 50 |
| SSF-SV18 | 1 | Extension plate bracket, 18" height | 50 |
| SSF-S6X | 2 | Extender for 6" metal studs | 100 |

## Switch Box Bracket

- Fits 2" x 3" switch boxes with one or two screw plaster ears
- Uses one bracket on 2½" and 3½" metal studs
- Bracket can be piggy-backed on same side of metal stud (singly or any number in series), giving greater flexibility to installer
- Brackets can be mounted on both sides of metal stud for double mounting
- Will not bulge or break out the drywall when mounted



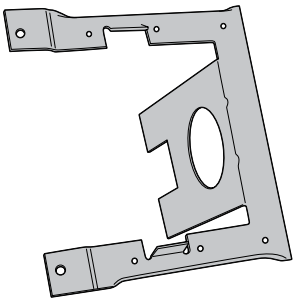


Fig. 1

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SHSB | 1 | Switch box bracket | 100 |

# Stud Wall/Drywall Supports, Clips and Brackets

## Floor-Mounted Box Supports

- Mounts on metal or wood studding
- Used as conduit rack or spacer for rigid conduit, IMC or EMT
- Ideal for schools, hospitals, industrial and commercial jobs
- Galvanized steel

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **7502** | 1 | Footed box supports, 20" height | 25 |
| **7503** | 1 | Footed box supports, 30" height | 50 |

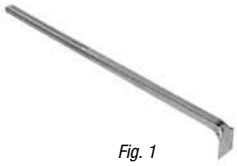
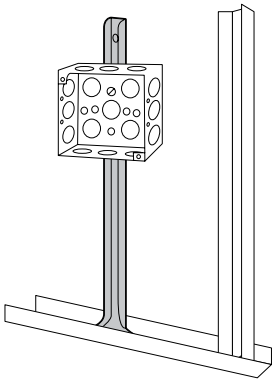


*Fig. 1*



## Easy-Snap Grommet

- Fits any size or shape metal stud hole
- Provides complete 360° protection for cable

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **1300** | 1 | Plastic bushing for metal stud, 1" trade size opening (1 11/32") | 100 |
| **1216-EN** | 2 | 2" Twisted universal bushing for metal stud, polypropylene material | 50 |

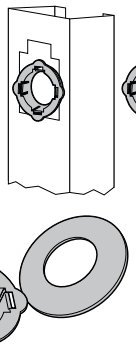


*Fig. 1*

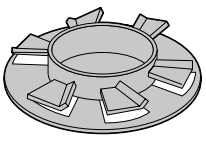


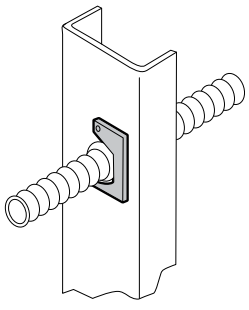
*Fig. 2*

## Through-Stud Cable/Conduit Support

- A quick means of support for horizontal runs of conduits or MC/AC through metal stud
- Installs easily with a screw gun
- SSF-SP1 enables ENT conduit and MC/AC cable to be easily pulled through metal stud

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **SSF-SAB-C1/2 3/4** | 1 | ½" or ¾" finger-close conduit clip | 25 |
| **SSF-SAB-C3/8** | 1 | Finger-close conduit clip 14-2 through 12-3 MC/AC cable and ⅜" conduits | 25 |
| **SSF-SAB-S1/2** | 2 | Snap-in conduit clip — ½" conduit | 25 |
| **SSF-SAB-S3/4** | 2 | Snap-in conduit clip — ¾" conduit | 25 |
| **SSF-SP1** | 3 | Supports up to 1" conduit † | 100 |

† *Requires self-tapping screws to install*



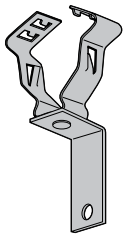


*Fig. 1*

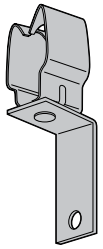


*Fig. 2*



*Fig. 3*



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# Stud Wall/Drywall Supports, Clips and Brackets



## Low-Voltage Mounting Brackets — Screw-On Support

- Eliminates the need for an electrical box when installing low-voltage Class 2 wiring
- For old work or new work

| CAT. NO. | FIG NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SLV | 1 | Old work or new work low-voltage bracket | 100 |
| VN1 | 2 | Non-metallic single-gang new work low-voltage bracket | 50 |
| VN2 | — | Non-metallic two-gang new work low-voltage bracket | 50 |
| VW1 | 3 | Non-metallic single-gang old work low-voltage bracket | 50 |
| VW2 | — | Non-metallic two-gang old work low-voltage bracket | 50 |
| WBF-1 | 4 | Low-voltage mounting bracket with screws | 100 |

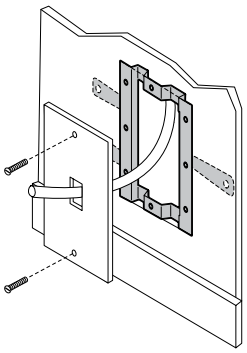




Fig. 1



Fig. 2



Fig. 3

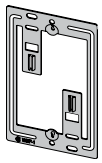


Fig. 4

## Device Leveler and Retainer

- Use for oversided drywall openings
- Prevents broken cover plates
- Stops device from being pushed back in wall
- Makes floating device rigid

| CAT. NO. | FIG NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SR | 1 | Single-gang device leveler and retainer | 100 |

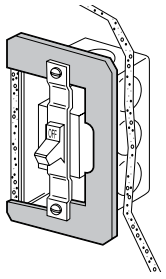


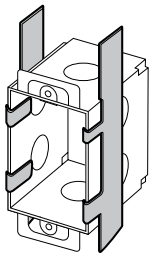


Fig. 1

## Old Work Box Support

- Quickly attaches box through finished drywall
- For up to 1½" thick drywall
- New 820D shipped in one piece, break-apart design
- Easy to install

| CAT. NO. | FIG NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| 820-D | 1 | Old work switch box steel mounting holder | 100 sets |



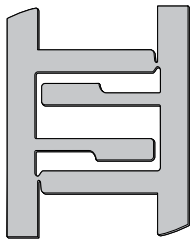


Fig. 1

## Protector Plates

- Protects cable(s) from damage when installing drywall or paneling
- No nails or screws required
- Fits all stud sizes
- Both products meet requirements for NEC® Section 300.4
- SSF-ST66 legs are crimped with pliers to stud to provide secure fit

| CAT. NO. | FIG NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-ST66 | 1 | Protector plate for metal stud | 100 |
| 66EP-SC | 2 | Protector plate for wood stud | 100 |

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

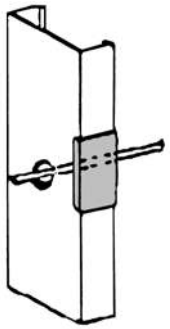




Fig. 1

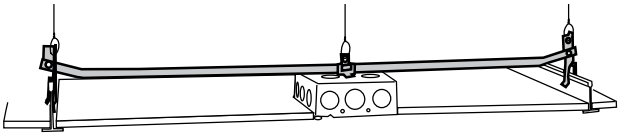


Fig. 2

# Acoustical Tee Supports, Clips and Brackets

## Snap-On Box Hanger

- Enables positioning of fixture or box anywhere across a 24" span
- Hanger comes complete with THC box mounting clip and ¼–20 screw
- Drop wire holes in tee clips and the clip enable support from main structure
- Part includes dual-height feature which enables 1½"-deep electrical box to be mounted flush with tile or offset ¾" for plaster ring
- The series includes bar hanger THC clip and ¼–20 x 38" screw
- The clip is furnished with ¼–30 x ⅜" screw



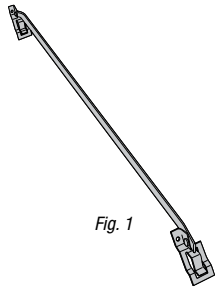
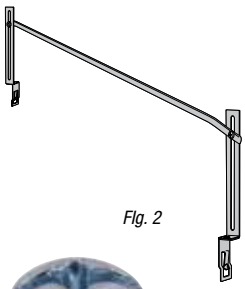


Fig. 1



Flg. 2



Fig. 3



Fig. 4

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-TH12 | 1 | T-grid box hanger, 12" span | 25 |
| SSF-TH20 | 1 | T-grid box hanger, 20" span | 25 |
| SSF-TH24 | 1 | T-grid box hanger, 24" span | 25 |
| SSF-TH30 | 1 | T-grid box hanger, 30" span | 25 |
| SSF-TH24A | 2 | 8" height adjustable, 24" span | 25 |
| SSF-THC | 3 | Snap-on fixture/box hanger mounting clip | 100 |
| SSF-MH1/4-3/8 | 4 | ¼–20 x ⅜" bolt combo head | 100 |

## Suspension Bars for Lightolier® Calculite® Series Fixtures

- Reduces installation time
- Hanger comes complete with bar riveted to acoustical tee clip, additional acoustical tee clip and ¼–20 screw
- Position of fixture adjustable with span
- Solid bar for sturdier installation
- Installs easily with a screwdriver

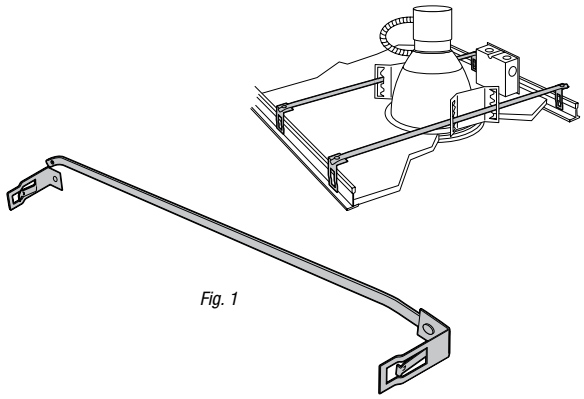


Fig. 1

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-TL24 | 1 | Suspension bars for Lightolier Calculite | 10 |

*Lightolier and Calculite are registered trademarks of Genlyte Thomas Group, LLC.*

## Light Fixture Support Clips

- Enlarged tab enables easy positioning of the clip over the tee bar
- Fits round- or rectangular-head tee bar
- Gives a positive method of supporting troffers and lay-ins
- No installation tools required

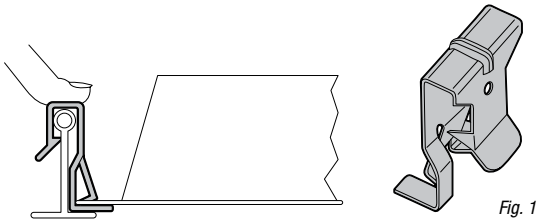


Fig. 1

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-TFC | 1 | Light fixture support clip | 100 |



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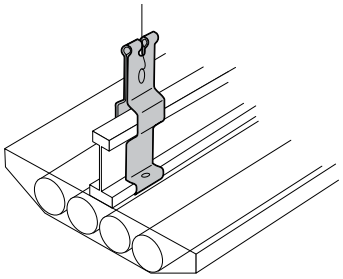
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# Acoustical Tee Supports, Clips and Brackets

## Independent Support Clips

- Easy to assemble, one-piece construction
- Provides independent support for fixtures
- Washer wing nut included
- Static load limit 65 lbs.
- No installation tools required



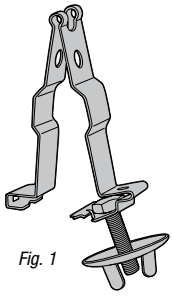
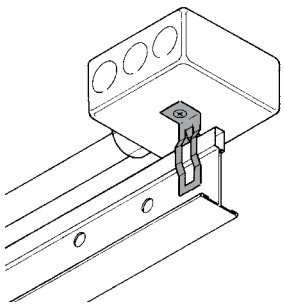


Fig. 1

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-TS5/8 | 1 | Grid size 15/16", stud length 5/8" | 65 | 100 |
| SSF-TS2 | 1 | Grid size 15/16", stud length 2" | 65 | 100 |
| SSF-TS1 1/2 | 1 | Grid size 15/16", stud length 1½" | 65 | 100 |

## Electrical Component Supports

- Provides supporting conduit and outlet boxes above acoustical tee bar
- TCH and TCV Series provide both horizontal and vertical support
- Available with ¼–20 thread impression or plain hole
- No installation tools required



| CAT. NO. | FIG NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-TCH | 1 | Top-mount T-bar fastener with plain hole | 100 |
| SSF-TCHT | 1 | Top-mount T-bar fastener with ¼–20 thread impression | 100 |
| SSF-TCH-S1/2 | 2 | Acoustical clip with top-mounted snap-in conduit clip for ½" conduit | 25 |
| SSF-TCH-S3/4 | 2 | Acoustical clip with top-mounted snap-in conduit clip for ¾" conduit | 25 |
| SSF-TCH-S1 | 2 | Acoustical clip with top-mounted snap-in conduit clip for 1" conduit | 25 |
| SSF-TCH-C1/2 3/4 | 3 | Acoustical clip with top-mounted conduit clip for ½"–¾" conduit | 25 |
| SSF-TCV | 4 | Side-mount T-Bar fastener with plain hole | 100 |
| SSF-TCVT | 4 | Side-mount T-Bar fastener with ¼–20 thread impression | 100 |
| SSF-TCV-S1/2 | 5 | Acoustical clip with side-mounted conduit clip for ½" conduit | 25 |
| SSF-TCV-S3/4 | 5 | Acoustical clip with side-mounted conduit clip for ¾" conduit | 25 |
| SSF-TCV-S1 | 5 | Acoustical clip with side-mounted conduit clip for 1" conduit | 25 |
| SSF-TCV-C1/2 3/4 | 6 | Acoustical clip with side-mounted conduit clip for ½"–¾" conduit | 25 |

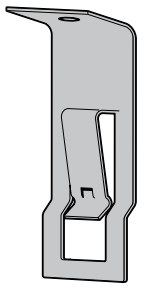


Fig. 1



Fig. 2



Fig. 3



Fig. 4

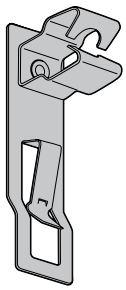


Fig. 5



Fig. 6

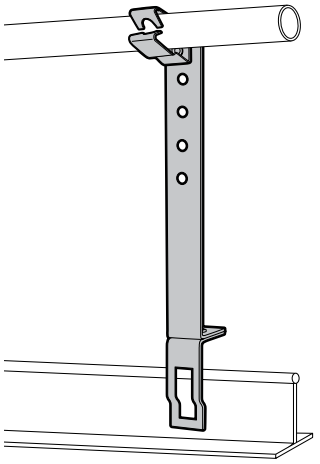
# Acoustical Tee Supports, Clips and Brackets

## Adjustable Box and Conduit Bracket

- Supports boxes and conduit above acoustical tee with height adjustments from 4¼" through 7¼"
- Attaches to conduit clips with thread impressions at required height
- Assemblies available for preset conduit locations
- TA7-S assemblies are furnished with the TA7 bracket, the conduit clip with thread impressions and ¼–20 cap screw

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **SSF-TA7** | 1 | Adjustable box and conduit support for T-grid | 50 |
| **SSF-TA7-S1/2** | 2 | For T-grid, with ½" snap-in conduit clip | 25 |
| **SSF-TA7-S3/4** | 2 | For T-grid, with ¾" snap-in conduit clip | 25 |
| **SSF-TA7-S1** | 2 | For T-grid, with 1" snap-in conduit clip | 25 |

***Note**: For preset location, add location number per Figure 3.*



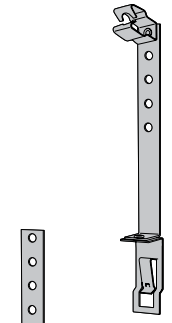


*Fig. 2*



*Fig. 1*

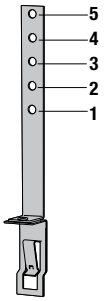



*Fig. 3**

## Drop Rod Stabilizer

- Provides attachment for dedicated electrical drop wire
- Yellow painted finish for easy identification
- Compliant with NEC® Section 300.4(A) for supporting end of dedicated drop wire

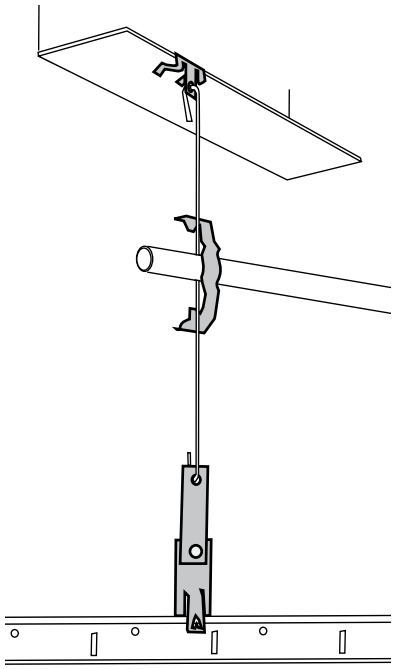


*Fig. 1*



*Fig. 2*

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **SSF-TCVYL** | 1 | Drop wire stabilizer, #12 through #8 drop wire | 25 |
| **SSF-TCVYL-FBUC** | 2 | Drop wire stabilizer, #8 drop wire through ⅜" rod | 25 |



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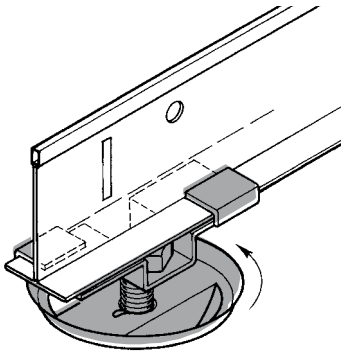
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# Acoustical Tee Supports, Clips and Brackets



## Acoustical Tee Twist-On Clip for Fixture Support

- Will not damage acoustical tee
- All T-clips with ¼–20 studs are furnished with a TWN-1/4" wing nut
- All T-clips with #8–32 studs are furnished with a #8–32 pal nut
- Available in black or white painted finish
- Static load limit 25 lbs.



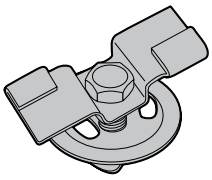


Fig. 1



Fig. 2

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-T9T5/8 | 1 | ¼–20 x ⅝" stud, 9⁄16" tee | 50 | 25 |
| SSF-T9T5/8WH | 1 | ¼–20 x ⅝" stud, 9⁄16" tee, white | 50 | 25 |
| SSF-T9T8-5/8 | 1 | #8–32 x ⅝" stud, 9⁄16" tee | 50 | 25 |
| SSF-T9T8-5/8WH | 1 | #8–32 x ⅝" stud, 9⁄16" tee, white | 50 | 25 |
| SSF-T9T8-7/16 | 1 | #8–32 x 7⁄16" stud, 9⁄16" tee | 50 | 25 |
| SSF-TWN1/4 | 2 | Impression washer wing nut, ¼–20 thread | 50 | 100 |

## Acoustical Tee Twist-On Fixture Support

- Supports electrical fixtures from acoustical tee bar 15⁄16" wide
- ¼"–20 stud — ⅝", 1½", 2" or 3" long
- All T-Clips with ¼"-20 studs furnished with TWN-¼" wing nut
- All T-Clips with #8-32 studs furnished with #8-32 pal nut
- No installation tools required

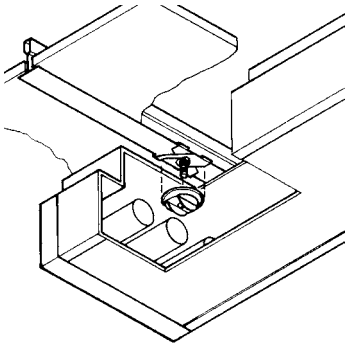




Fig. 1

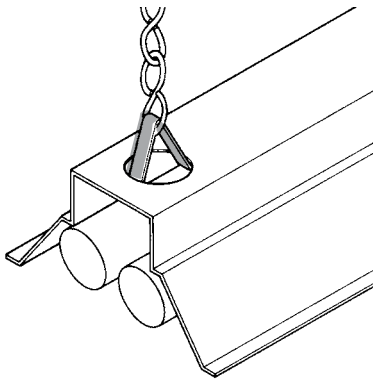


Fig. 2

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-T15T5/8 | 1 | ¼–20 x ⅝" stud, 15⁄16" tee | 50 | 25 |
| SSF-T15T5/8WH | 1 | ¼–20 x ⅝" stud, 15⁄16" tee, white finish | 20 | 25 |
| SSF-T15T1 1/2 | 1 | ¼–20 x 1½" stud, 15⁄16" tee | 50 | 25 |
| SSF-T15T1 1/2WH | 1 | ¼–20 x 1½" stud, 15⁄16" tee, white finish | 20 | 25 |
| SSF-T15T2 | 1 | ¼–20 x 2" stud, 15⁄16" tee | 50 | 25 |
| SSF-T15T3 | 1 | ¼–20 x 3" stud, 15⁄16" tee | 50 | 25 |
| SSF-T15T8-5/8 | 1 | #8–32 x ⅝" stud, 15⁄16" tee | 50 | 25 |
| SSF-T15T8-5/8WH | 1 | #8–32 x 3" stud, 15⁄16" tee, white finish | 20 | 25 |
| SSF-T15T8-7/16 | 1 | #8–32 x 7⁄16" stud, 15⁄16" tee | 50 | 25 |
| SSF-T15T8-7/16WH | 1 | #8–32 x 7⁄16" stud, 15⁄16" tee, white finish | 20 | 25 |
| SSF-T15TSH | 2 | Acoustical tile sign-hanger attachment, white finish | 20 | 25 |

## Light Fixture Hanger

- Supports fluorescent light fixtures from S-hooks and jack chain (see **page B-257**)
- Supports 50 lbs. ultimate static load limit
- No need to modify jack chain for fixture installation



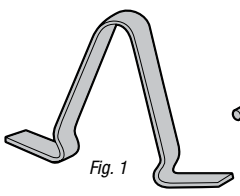


Fig. 1

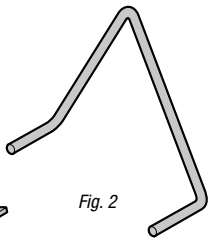


Fig. 2

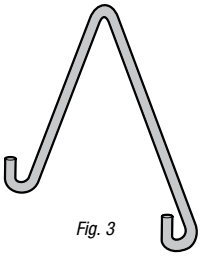


Fig. 3

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-TV | 1 | Fluorescent light fixture hanger | 50 | 100 |
| CI8930 | 2 | Fluorescent light fixture hanger | 115 | 100 |
| CI8932 | 3 | Fluorescent light fixture hanger | 115 | 100 |

# Cable Support Hooks

- Extra-wide base provides cable support on a flat surface, eliminating kinking, bending and crimping
- Accommodates Category 5 fiber optic cable and innerduct
- Available in 1⁵⁄₁₆" and 2" diameter size cable support hook
- Complies with UL, CSA, NEC® and EIA/TIA requirements for structured cabling systems
- Supports 50 lbs. per hook static load limit
- VJ series cable support hook can be snapped together with VB-10 hanger bracket without hardware or tools

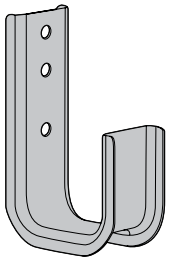




Fig. 1



Fig. 2

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| **SSF-VJ1 5/16C** | 1 | Wide-base cable support hook, 1⁵⁄₁₆" diameter | 100 | 50 |
| **SSF-VJ2C** | 1 | Wide-base cable support hook, 2" diameter | 100 | 50 |
| **SSF-VJ1 5/16*** | 2 | Wide-base cable support hook, 1⁵⁄₁₆" diameter | 100 | 50 |
| **SSF-VJ2*** | 2 | Wide-base cable support hook, 2" diameter | 100 | 50 |
| **SSF-VJ4** | 2 | Wide-base cable support hook, 4" diameter | 100 | 50 |
| **SSF-VB10** | 3 | Hanger bar | 100 | 100 |
| **SSF-VJ1 5/16-BC** | 4 | Cable support J-hook, 1⁵⁄₁₆" diameter clamp to flanges up to ½" thick | 100 | 25 |
| **SSF-VJ2-BC** | 4 | Cable support J-hook, 2" diameter clamp to flanges up to ½" thick | 100 | 25 |
| **SSF-VJ1 5/16-BC-AB** | 5 | Cable support J-hook, 1⁵⁄₁₆" diameter clamp to flanges up to ½" thick | 100 | 25 |
| **SSF-VJ2-BC-AB** | 5 | Cable support J-hook, 2" diameter clamp to flanges up to ½" thick | 100 | 25 |
| **SSF-VJ1 5/16-F1/4** | 6 | Cable support hook, 1⁵⁄₁₆" diameter clip to ⅛" to ¼" flange | 100 | 25 |
| **SSF-VJ1 5/16-F1/2** | 6 | Cable support hook, 1⁵⁄₁₆" diameter clip to ⅝" to ½" flange | 100 | 25 |
| **SSF-VJ1 5/16-F3/4** | 6 | Cable support hook, 1⁵⁄₁₆" diameter clip to ⅜" to ¾" flange | 100 | 25 |
| **SSF-VJ2-F1/4** | 6 | Cable support hook, 2" diameter clip to ⅛" to ¼" flange | 100 | 25 |
| **SSF-VJ2-F1/2** | 6 | Cable support hook, 2" diameter clip to ⅝" to ½" flange | 100 | 25 |
| **SSF-VJ2-F3/4** | 6 | Cable support hook, 2" diameter clip to ⅜" to ¾" flange | 100 | 25 |

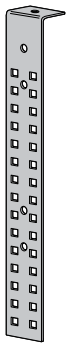


Fig. 3

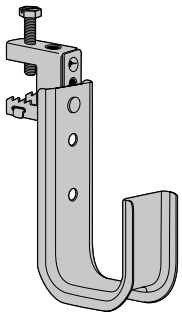


Fig. 4

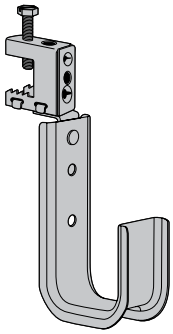


Fig. 5

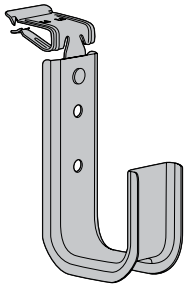


Fig. 6

***Note:*** *For assembly hardware, see* ***page B-258.***



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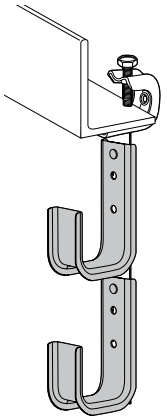
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# Cable Support Hooks

- Extra-wide base provides cable support on a flat surface, eliminating kinking, bending and crimping
- Accommodates Category 5 fiber optic cable and innerduct
- Available in 1⁵⁄₁₆" and 2" diameter size cable support clips
- Complies with UL, CSA, NEC® and EIA/TIA requirements for structured cabling systems
- Supports 100 lbs. per hook static load limit
- VJ series cable support clips can be snapped together with VB-10 hanger bracket without hardware or tools



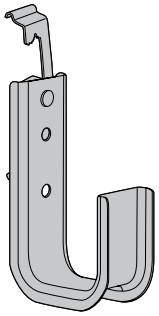


Fig. 1

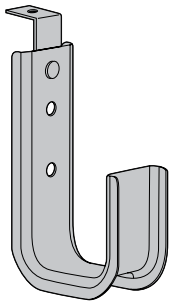


Fig. 2

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| **SSF-VJ1 5/16-UC** | 1 | Cable support hook, 1⁵⁄₁₆" diameter clip to #12 drop wire through ⅜" rod | 100 | 25 |
| **SSF-VJ2-UC** | 1 | Cable support hook, 2" diameter clip to #12 drop wire through ⅜" rod | 100 | 25 |
| **SSF-VJ1 5/16-AB** | 2 | Cable support hook, 1⁵⁄₁₆" diameter clip rotates 360° | 100 | 25 |
| **SSF-VJ2-AB** | 2 | Cable support hook, 2" diameter clip rotates 360° | 100 | 25 |
| **SSF-VJ1 5/16-A7** | 3 | Cable support hook, 1⁵⁄₁₆" diameter clip to acoustical tee | 100 | 25 |
| **SSF-VJ2-A7** | 3 | Cable support hook, 3" diameter clip to acoustical tee | 100 | 25 |
| **SSF-VJ1 5/16-H1/4-AB** | 4 | Cable support hook, 1⁵⁄₁₆" diameter clip to ⅛" to ¼" flange, rotates 360° | 100 | 25 |
| **SSF-VJ1 5/16-H1/2-AB** | 4 | Cable support hook, 1⁵⁄₁₆" diameter clip to ⅝" to ½" flange, rotates 360° | 100 | 25 |
| **SSF-VJ1 5/16-H3/4-AB** | 4 | Cable support hook, 1⁵⁄₁₆" diameter clip to ⅝" to ¾" flange, rotates 360° | 100 | 25 |
| **SSF-VJ2-H1/4-AB** | 4 | Cable support hook, 2" diameter clip to ⅛" to ¼" flange, rotates 360° | 100 | 25 |
| **SSF-VJ2-H1/2-AB** | 4 | Cable support hook, 2" diameter clip to ⅝" to ½" flange, rotates 360° | 100 | 25 |
| **SSF-VJ2-H3/4-AB** | 4 | Cable support hook, 2" diameter clip to ⅝" to ¾" flange, rotates 360° | 100 | 25 |
| **SSF-VJ1 5/16-V1/4** | 5 | Cable support hook, 1⁵⁄₁₆" diameter clip to ³⁄₃₂" to ⁹⁄₃₂" vertical flange | 100 | 25 |
| **SSF-VJ2-V1/4** | 5 | Cable support hook, 2" diameter clip to ³⁄₃₂" to ⁹⁄₃₂" vertical flange | 100 | 25 |
| **SSF-VJ1 5/16-A1/4** | 6 | Cable support hook, 1⁵⁄₁₆" diameter clip to ⅛" to ¼" Z Purlin | 100 | 25 |
| **SSF-VJ2-A1/4** | 6 | Cable support hook, 2" diameter clip to ⅛" to ¼" Z Purlin | 100 | 25 |

***Note:*** *For assembly hardware, see* ***page B-258.***

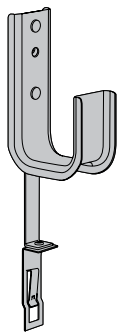


Fig. 3

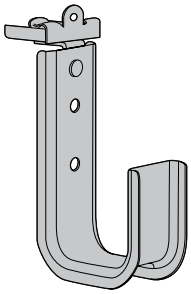


Fig. 4

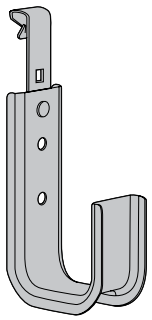


Fig. 5

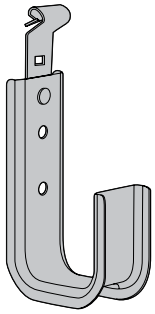
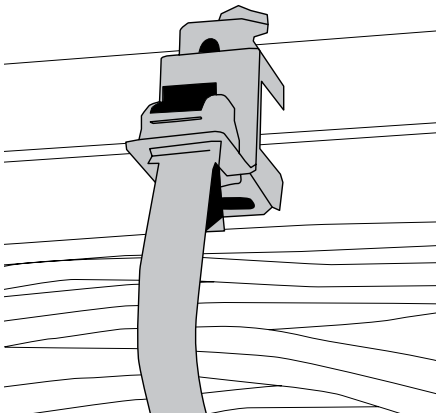


Fig. 6

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# Deltec® Tie Cable Support Fasteners

- Ideal for attachment of high-performance cable such as fiber optic and CAT5 cables because of the wide strap used for support of the cable bundle
- Preassembled part combinations enable quick installation to vertical and horizontal flanges, Purlin, drop wire, threaded rod and acoustical tee bar
- Can be used for single or multiple bundles
- Fully adjustable around bundle, fully encompasses cabling
- Wide, firm bearing surface to support wire



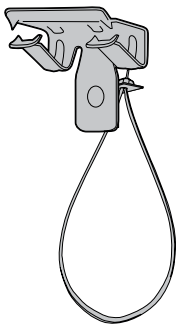


Fig. 1

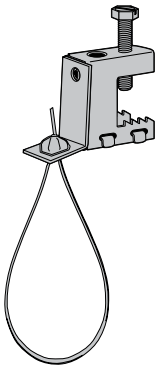


Fig. 2

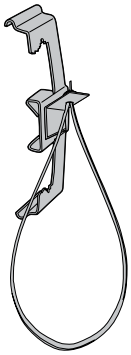


Fig. 3



Fig. 4

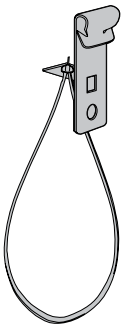


Fig. 5

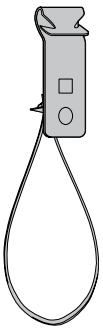


Fig. 6

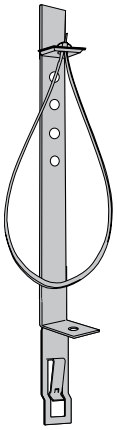


Fig. 7

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **SSF-VT13-F1/4** | 1 | 13" strap with ¼" flange clip attachment | 25 |
| **SSF-VT13-F1/2** | 1 | 13" strap with ½" flange clip attachment | 25 |
| **SSF-VT13-BC** | 2 | 13" strap with beam clamp attachment | 25 |
| **SSF-VT13-UC** | 3 | 13" strap with utility clip attachment | 25 |
| **SSF-VT13-AB** | 4 | 13" strap with angle bracket attachment | 25 |
| **SSF-VT13-V1/4** | 5 | 13" strap with vertical flange clip attachment | 25 |
| **SSF-VT13-A1/4** | 6 | 13" strap with Z Purlin clip attachment | 25 |
| **SSF-VT13-A7** | 7 | 13" strap with TA7 acoustical tee bar mounting attachment | 25 |
| **SSF-VT27-F1/4** | 1 | 27" strap with ¼" flange clip attachment | 25 |
| **SSF-VT27-F1/2** | 1 | 27" strap with ½" flange clip attachment | 25 |
| **SSF-VT27-BC** | 2 | 27" strap with beam clamp attachment | 25 |
| **SSF-VT27-UC** | 3 | 27" strap with utility clip attachment | 25 |
| **SSF-VT27-AB** | 4 | 27" strap with angle bracket attachment | 25 |
| **SSF-VT27-V1/4** | 5 | 27" strap with vertical flange clip attachment | 25 |
| **SSF-VT27-A1/4** | 6 | 27" strap with Z Purlin clip attachment | 25 |
| **SSF-VT27-A7** | 7 | 27" strap with TA7 acoustical tee bar mounting attachment | 25 |
| **CSS-H** | — | Strap mounting bracket | 25 |
| **CSS-135** | — | Additional 13½" strap ties | 25 |
| **CSS-270** | — | Additional 27" strap ties | 25 |



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# Loop Tie Cable Support Fasteners

- Attachment of all types of MC/AC cable and high-performance cable such as fiber optic and CAT5 cables
- Preassembled part combinations enable quick installation to vertical and horizontal flanges, purlin, drop wire, threaded rod and acoustical tee bar
- The hook-and-loop type strap makes mounting and adjustment quick and easy
- Perfect product for applications where easy access to the cable bundle after installation is required



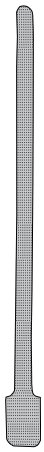


Fig. 1

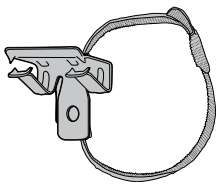


Fig. 2

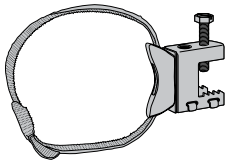


Fig. 3

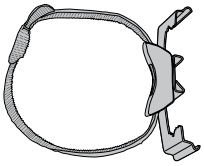


Fig. 4

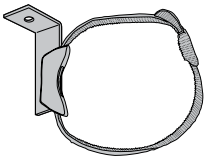


Fig. 5

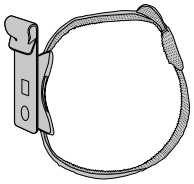


Fig. 6

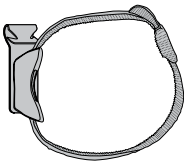


Fig. 7

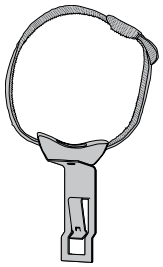


Fig. 8

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **F0350-40** | 1 | Additional 13" Loop Tie straps | 25 |
| **F0220-40** | 1 | Additional 9" Loop Tie straps | 25 |
| **SSF-VL13-F1/4** | 2 | 13" Loop Tie with ¼" flange clip attachment | 25 |
| **SSF-VL13-F1/2** | 2 | 13" Loop Tie with ½" flange clip attachment | 25 |
| **SSF-VL13-BC** | 3 | 13" Loop Tie with beam clamp attachment | 25 |
| **SSF-VL13-UC** | 4 | 13" Loop Tie with utility clip attachment | 25 |
| **SSF-VL13-AB** | 5 | 13" Loop Tie with angle bracket attachment | 25 |
| **SSF-VL13-V1/4** | 6 | 13" Loop Tie with vertical flange clip attachment | 25 |
| **SSF-VL13-A1/4** | 7 | 13" Loop Tie with Z Purlin clip attachment | 25 |
| **SSF-VL13-CH** | 8 | 13" Loop Tie with TCH acoustical tee bar mounting attachment | 25 |

## Threaded Bridle Rings

- Bridle rings can be combined with these other Steel City® Spring Steel Fastener products: BBC Beam Clamp, BH Series Flange Clips and TC Series Acoustical Tee
- Bright zinc electro-plated finish

| CAT. NO. | FIG. NO. | EYE DIA. (IN.) | THREAD | DESCRIPTION | MAX. LOAD (LBS.) | STD. CTN. |
|---|---|---|---|---|---|---|
| SSF-VR3/4A | 1 | ¾ | #10–24 | Machine Screw Bridle Ring | 50 | 100 |
| SSF-VR1 1/4A | 1 | 1¼ | #10–24 | Machine Screw Bridle Ring | 50 | 100 |
| SSF-VR1 3/4A | 1 | 1¾ | #10–24 | Machine Screw Bridle Ring | 50 | 100 |
| SSF-VR1 1/4B | 1 | 1¼ | ¼–20 | Machine Screw Bridle Ring | 50 | 100 |
| SSF-VR1 5/8B | 1 | 1⅝ | ¼–20 | Machine Screw Bridle Ring | 50 | 100 |
| SSF-VR 2B | 1 | 2 | ¼–20 | Machine Screw Bridle Ring | 50 | 100 |
| SSF-VR 4B | 1 | 4 | ¼–20 | Machine Screw Bridle Ring | 50 | 100 |
| SSF-VR1 5/8D | 2 | 1⅝ | #14 | Wood Screw Bridle Ring | 75 | 100 |
| SSF-VR1 1/4D | 2 | 1¼ | #14 | Wood Screw Bridle Ring | 75 | 100 |
| SSF-VR3E | 2 | 3 | #18 | Wood Screw Bridle Ring | 75 | 100 |
| SSF-VR7/8C | 2 | ⅞ | #10 | Wood Screw Bridle Ring | 50 | 100 |

*These sizes have longer nails for greater load carrying capacity.*

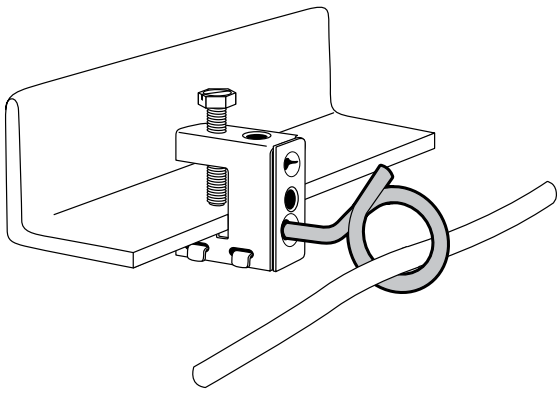
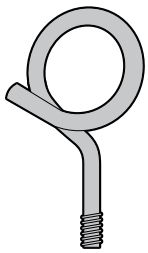


Fig. 1



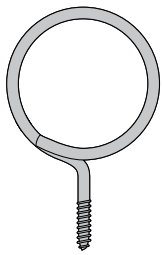


Fig. 2

## Low-Voltage Mounting Brackets — Screw-On Support

- Eliminates the need for an electrical box when installing low-voltage Class 2 wiring
- For old work or new work

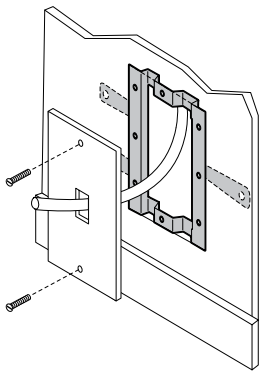




Fig. 1



Fig. 2

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-SLV | 1 | Old work or new work low-voltage bracket | 100 |
| VN1 | 2 | Non-metallic single-gang new work low-voltage bracket | 50 |
| VN2 | — | Non-metallic two-gang new work low-voltage bracket | 50 |
| VW1 | 3 | Non-metallic single-gang old work low-voltage bracket | 50 |
| VW2 | — | Non-metallic two-gang old work low-voltage bracket | 50 |
| WBF-1 | 4 | Low-voltage mounting bracket with screws | 100 |



Fig. 3

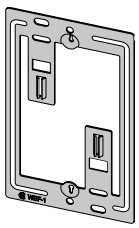


Fig. 4



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# Fastener Accessories and Hardware



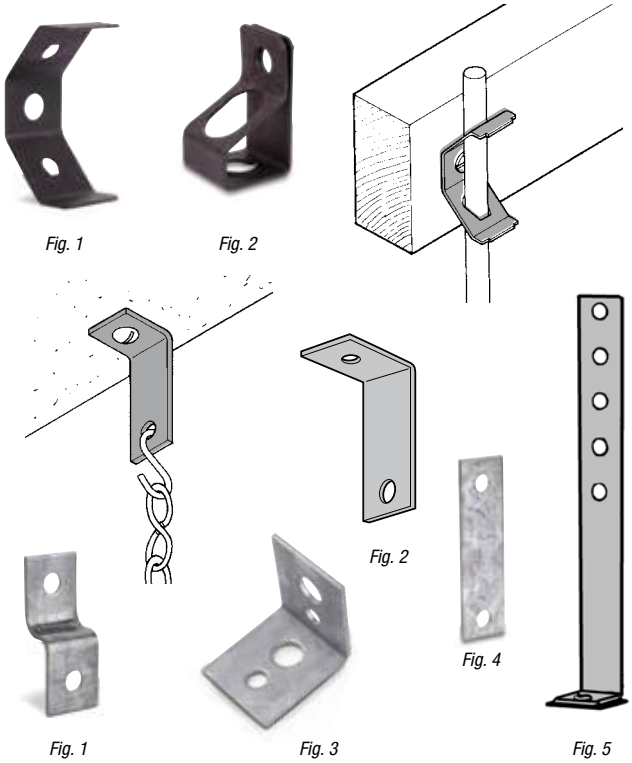
## Miscellaneous Hangers

- Rod hanger available for 1¼" and ⅜" threaded rod with or without thread impression

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-HB8 | 1 | Rod & wire hanger, #8 wire | 160 | 100 |
| SSF-HB1/4 | 1 | Rod & wire hanger, ¼" plain rod | 160 | 100 |
| SSF-HB3/8 | 1 | Rod & wire hanger, ⅜" plain rod | 160 | 100 |
| SSF-HA1/4T | 2 | Rod & wire hanger with thread impression, ¼" threaded rod | 160 | 100 |
| SSF-HA3/8 | 2 | Rod & wire hanger, ¼"–⅜" threaded rod, nuts required | 160 | 100 |
| SSF-HA3/8T | 2 | Rod & wire hanger with thread impression, ⅜" threaded rod | 160 | 100 |

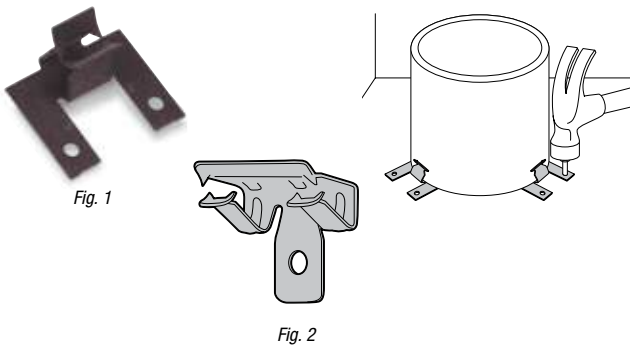
- Rod hanger available for ¼" and ⅜" threaded rod with or without thread impression
- Various steel brackets with 1¼" holes and galvanized finish

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| SSF-HOB | 1 | Offset bracket with ¼" hole | 160 | 100 |
| SSF-HAB | 2 | Angle bracket with ¼" hole | 160 | 100 |
| SSF-HSAB | 3 | Short angle bracket with ¼" hole | 160 | 100 |
| SSF-HFB | 4 | Flat bracket with ¼" hole | 160 | 100 |
| SSF-TA7 | 5 | For T-grid, with 1" snap-in conduit clip | — | 100 |




## Pipe Sleeve Positioner

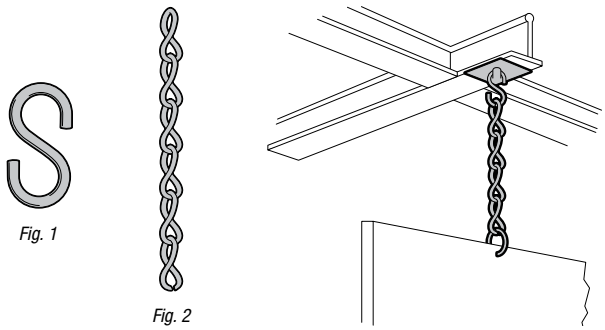
| CAT. NO. | FIG. NO. | SLEEVE DIA. (IN.) | DESCRIPTION / WALL THICKNESS | STD. CTN. |
|---|---|---|---|---|
| SSF-MPS | 1 | All dia. | Pipe sleeve positioner, 5/16" and under | 100 |
| SSF-MPS | 1 | 2–6 | Pipe sleeve positioner, Schedule 40 pipe | 100 |
| SSF-BF1/2 | 2 | 6 | Pipe sleeve positioner, Schedule 80 pipe | 100 |
| SSF-BF1/2 | 2 | 8–10 | Pipe sleeve positioner, Schedule 40 pipe | 100 |
| SSF-BF3/4 | 2 | 9–14 | Pipe sleeve positioner, Schedule 80 pipe | 100 |




## S-Hook and Jack Chain

- Order S-hooks and jack chain with your Spring Steel orders to save on freight, energy and purchase orders
- S-hook supports 29 lbs. static load limit

| CAT. NO. | FIG. NO. | DESCRIPTION | STATIC LOAD LIMIT (LBS.) | STD. CTN. |
|---|---|---|---|---|
| CI8905 | 1 | S-hook | 29 | 100 |
| CI8912 | 2 | Jack chain | — | 50 |



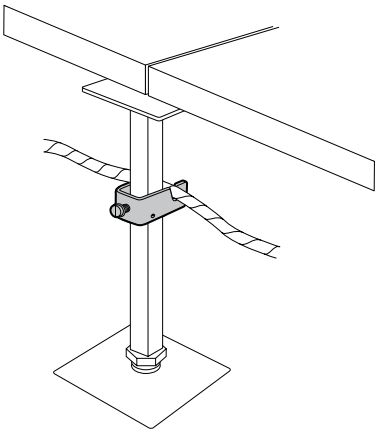
# Fastener Accessories and Hardware

## Signal Reference Grid Wire Clamp

- Supports signal reference grid wires below computer-room floors
- One fastener supports wire sizes #8 stranded (.146") to #4 stranded (.232")
- Fits post sizes ¾" to 1" round or square
- Slots in fastener grip wire provides positive contact with post
- Clamps grid wire directly to post, enabling a low-resistance connection across bare metal contacts
- Installs easily with a screw driver or nut driver



Fig. 1



| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| 3900 | 1 | Signal reference grid wire clamp | 100 |

## Deck Hanger

- Easy method to hang items below decking
- Requires pre-drilled hole, ¼" diameter
- Works for material thicknesses up to ⅛"

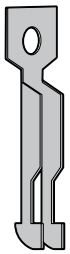
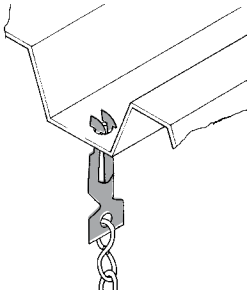


Fig. 1



| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| SSF-MNH | 1 | Deck Hanger Clip | 100 |

## Hardware Components



Fig. 1



Fig. 2



Fig. 3

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| E142-1/4X075EG | 1 | ¼–20 x ¾" hex head bolt | 50 |
| E142-1/4X100EG | 1 | ¼–20 x 1" hex head bolt | 50 |
| E142-1/4X150EG | 1 | ¼–20 x 1½" hex head bolt | 50 |
| E145-1/4EG | 2 | ¼–20 x ¼" hex nut | 100 |
| SSF-MH1/4-3/8 | 3 | ¼–20 x ⅜" bolt combo head | 100 |

## R-Series Continuous Thread Rod — Galvanized



| CAT. NO. | ROD SIZE | ULTIMATE ‡ LOAD IN LBS. | DATA FOR PRESSURE PIPING: ROOT AREA THREAD | DATA FOR PRESSURE PIPING: NOMINAL PIPE SIZE | DATA FOR PRESSURE PIPING: MAX. SAFE LOAD AT 450° | STD. CTN. |
|---|---|---|---|---|---|---|
| R628-6 FT. | ¼-20 | 900 | .027 | — | — | 300 |
| R638-6 FT. | ⅜–16 | 1,900 | .068 | ¾"–2" | 610 | 150 |
| R648-6 FT. | ½–13 | 3,500 | .126 | 2½"–3½" | 1,130 | 60 |
| R1028-10 FT. | ¼–20 | 900 | .027 | — | — | 500 |
| R1038-10 FT. | ⅜–16 | 1,900 | .068 | ¾"–2" | 610 | 250 |
| R1048-10 FT. | ½–13 | 3,500 | .126 | 2½"–3½" | 1,130 | 100 |

‡ *Load Ratings based on safely factor of three.*



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# T&B® Cable Tray



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# Overview

## Benefits of Cable Tray

Cable tray wiring systems offer significant advantages over conduit pipe and other wiring systems. Cable tray is less expensive, more reliable, more adaptable to changing needs and easier to maintain. In addition, its design does not contribute to potential safety problems associated with other wiring systems.

An evaluation of the costs and benefits of various wiring systems should be done in the design phase. Unfortunately, many engineers who are unfamiliar with wiring systems avoid the system selection process or defer it until construction — often resulting in higher costs, scheduling delays and a system that will not meet future needs.

Selection of a wiring system that is not the most suitable for a particular application in terms of cost, potential corrosion and electrical considerations can lead to numerous problems, including excessive initial cost, poor design, faulty installation, extra maintenance, future power outages and unnecessary safety concerns.

### Cost

Extensive experience has shown that the initial cost of a cable tray installation (including conductor, material and installation labor costs) may be as much as 60% less than a comparable conduit wiring system.

Cable tray systems, including trays, supports, fittings and other materials, are generally much less expensive than conduit wiring systems. In addition, major cost savings are generated by the relative ease of installation. Labor costs of installing a cable tray system can run up to 50 percent less. Total cost savings will vary with the complexity and size of the installation.

Direct cost savings are easy to calculate during the design phase of an installation, but the enormous advantages of cable tray may accrue only over time. The system's reliability, adaptability, ease of maintenance and inherent safety features result in many other types of cost savings, including:

- Lower engineering and maintenance costs
- Less need to reconfigure system as needs change
- Less down time for electrical and data handling systems
- Fewer environmental problems resulting from loss of power to essential equipment

### Reliability

Cable tray systems offer unsurpassed reliability, resulting in less need for maintenance and less down time — important considerations for all installations but especially for such industries as data communications and financial services.

In addition, since cable tray is not a closed system, moisture build up problems are eliminated and damage to cable insulation during installation is also greatly reduced.

### Adaptabilty

A major advantage of cable tray systems derives from their adaptability to new needs and technology. The pace of change in the economy, constantly shifting competitive pressures and rapid introduction of innovative technologies are all accelerating. More than ever before, businesses must be prepared to quickly expand facilities, change products or introduce new processes. The flexibility of the wiring system is a key consideration.

Modifying a cable tray system or adding cables to meet new needs is relatively easy because cables can enter or exit a tray at any point. And initial design considerations can build-in extra capacity as part of the planning process. Cable tray's inherent adaptability allows rewiring for future expansion, building redesign or new technologies without disruption or need to replace the entire wiring system.



### Maintenance

Cable tray wiring systems require less maintenance than conduit systems. When maintenance is necessary, it is easier, less time-consuming and less labor intensive.

The physical condition and status of both the cable tray and the tray cables can be inspected visually, something that is not possible with conduit systems. In addition, it is also easy to see if there is sufficient capacity in the trays for additional cables. As was noted above, changing or adding cables can also be accomplished without difficulty.

Another comparative benefit of cable tray systems is that they do not act as channels of moisture paths, as conduit wiring systems do. Conduit systems tend to collect condensation and channel the moisture to electrical equipment, where it can lead to corrosion and failure.

Cable tray and tray cable are also less susceptible to fire loss than conduit. An external fire usually results in damage to only a few feet of a cable tray system, while wire insulation inside a conduit suffers significant damage and thermoplastic insulation may actually fuse to the conduit.

### Safety

Cable tray wiring systems lack the inherent safety concerns of conduit systems. By its nature, a conduit wiring system can serve as a flow-through for corrosive, explosive and toxic gases.

The conduit installation process can also present a safety issue for electricians. The cable tray installation process precludes those safety concerns by providing a means to pull tray cables from near one termination enclosure to the next before they are inserted into the enclosure and then terminated, unlike conduit installation where the electrician may be inadvertently exposed to live, energized equipment that may already be in the enclosure.

Finally, in installations where cable tray can be used as the equipment grounding conductor (per the National Electrical Code® standards), it is easy to visually check the system components as well as conduct checks for electrical continuity.

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*



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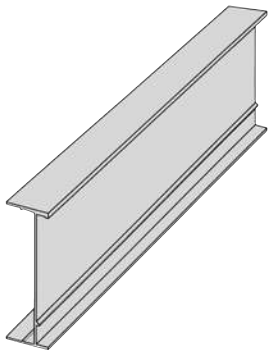
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## Overview

# Thomas & Betts Cable Tray Unique Design Points — Features and Benefits

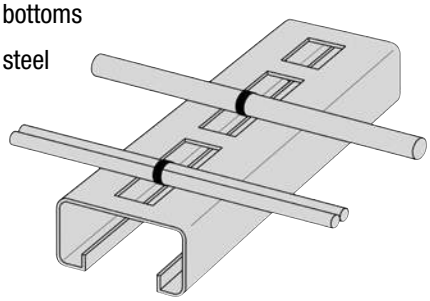
### I-Beam Siderail

- Maximum structural strength
- Aluminum



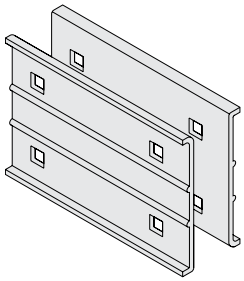
### Ty-Rap® Cable Tie Slots

- Exclusive Ty-Rap® cable tie slots on 1" centers on all ladder and ventilated bottoms
- Aluminum and steel



### Snap-in Splice Plates

- Snap-in aluminum splice plates for easy installation
- Aluminum

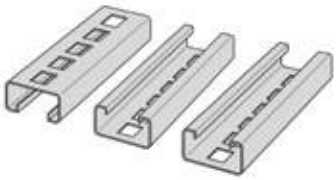


### Added Support

- Aluminum and steel solid bottoms are constructed with a flat sheet for added cable protecton
- Aluminum and steel

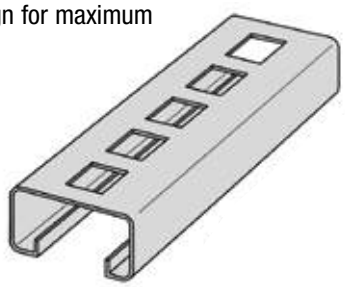
### Alternating Rungs

- Alternating rungs for top and bottom accessory installation and cable lashing
- Aluminum and steel



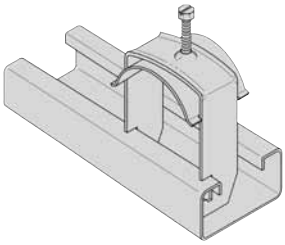
### Extra-Wide Rung Design

- Extra-wide rung design for maximum cable-bearing surface
- Aluminum and steel



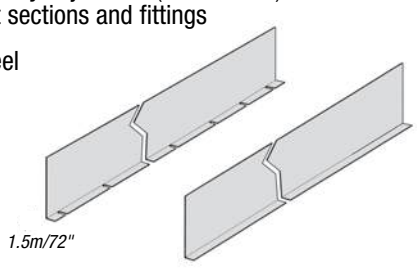
### Continuous Open Slot

- Rungs have continuous open slot to accept standard strut pipe clamps and provide complete barrier strip adjustability
- Aluminum and steel



### Adjustable Barrier Strips

- Barrier strips are fully adjustable (side to side) for use in straight sections and fittings
- Aluminum and steel



## Aluminum Tray

### 4" Straight Sections, Series 0-4, 1-4, 2-4 — Ladder, Ventilated and Solid Trough



**A H 0 - 4 - 24 L09 - 144**

| Material | Style | Series | Side Rail Height | Width | Bottom Type | Length |
|---|---|---|---|---|---|---|
| **A** = Aluminum | **H** = H-Beam | **0** = Series 0* | **4"** | **06** = 6" | **L06** = 6" Rung Spacing | **144** = 12 ft. |
| | | **1** = Series 1* | | **09** = 9" | **L09** = 9" Rung Spacing | **288** = 24 ft. |
| | | **2** = Series 2 | | **12** = 12" | **L12** = 12" Rung Spacing | **3** = 3m |
| | | | | **18** = 18" | **V** = Ventilated** | **6** = 6m |
| | | | | **24** = 24" | **S** = Solid Trough | |
| | | | | **30** = 30" | | |
| | | | | **36** = 36" | | |

#### Support Span

| SERIES | | FEET 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|
| AH0-4 | Load (lb./ft.) | 152 | 86 | 55 | 38 | — | — | — | — |
| | Deflection (in.) | .265 | .472 | .737 | 1.062 | — | — | — | — |
| | Deflection Factor | .002 | .006 | .013 | .028 | — | — | — | — |
| AH1-4 | Load (lb./ft.) | 239 | 134 | 86 | 60 | — | — | — | — |
| | Deflection (in.) | .318 | .565 | .884 | 1.272 | — | — | — | — |
| | Deflection Factor | .001 | .004 | .010 | .021 | — | — | — | — |
| AH2-4 | Load (lb./ft.) | 358 | 202 | 129 | 90 | 66 | 51 | 40 | 32 |
| | Deflection (in.) | .416 | .740 | 1.156 | 1.673 | 2.277 | 2.974 | 3.764 | 4.590 |
| | Deflection Factor | .001 | .004 | .009 | .019 | .034 | .059 | .094 | .143 |

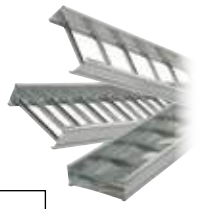
#### Specifications

- NEMA Rating — AH0-4: 8B; AH1-4: 12A, 8C; AH2-4: 12B
- CSA — AH1-4: C; AH2-4: D/3m
- UL Cross Sectional Area — All: .6 in.$^2$
- Side Rail Design Factors, 1 Pair — AH0-4: Ix: 1.67 in.$^4$; Sx: .774 in.$^3$; Area: .742 in.$^2$; AH1-4: Ix: 2.19 in.$^4$; Sx: 1.05 in.$^3$; Area: .906 in.$^2$; AH2-4: Ix: 2.51 in.$^4$; Sx: 1.17 in.$^3$; Area: .986 in.$^2$

** Series 0 and Series 1 not available in 24-ft. or 6m lengths.*

*** For load ratings of CSA Class C/NEMA 12C or less, please see an alternative ventilated series of cable tray on* ***pages B-334–B-357****.*

### 4" Straight Sections, Series 3-4, 4-4, 5-4 — Ladder, Ventilated and Solid Trough



**A H 5 - 4 - 24 L09 - 144**

| Material | Style | Series | Side Rail Height | Width | Bottom Type | Length |
|---|---|---|---|---|---|---|
| **A** = Aluminum | **H** = H-Beam | **3** = Series 3 | **4"** | **06** = 6" | **L06** = 6" Rung Spacing | **144** = 12 ft. |
| | | **4** = Series 4 | | **09** = 9" | **L09** = 9" Rung Spacing | **288** = 24 ft. |
| | | **5** = Series 5 | | **12** = 12" | **L12** = 12" Rung Spacing | **3** = 3m |
| | | | | **18** = 18" | **V** = Ventilated | **6** = 6m |
| | | | | **24** = 24" | **S** = Solid Trough | |
| | | | | **30** = 30" | | |
| | | | | **36** = 36" | | |

#### Support Span

| SERIES | | FEET 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|
| AH3-4 | Load (lb./ft.) | 522 | 294 | 188 | 131 | 96 | 73 | 58 | 47 |
| | Deflection (in.) | .477 | .849 | 1.326 | 1.909 | 2.599 | 3.395 | 4.296 | 5.304 |
| | Deflection Factor | .001 | .003 | .007 | .015 | .027 | .046 | .074 | .113 |
| AH4-4 | Load (lb./ft.) | 589 | 331 | 212 | 147 | 108 | 83 | 65 | 53 |
| | Deflection (in.) | .441 | .785 | 1.226 | 1.766 | 2.403 | 3.139 | 3.973 | 4.905 |
| | Deflection Factor | .001 | .002 | .006 | .012 | .022 | .038 | .061 | .092 |
| AH5-4 | Load (lb./ft.) | 867 | 488 | 312 | 217 | 159 | 122 | 96 | 78 |
| | Deflection (in.) | .505 | .898 | 1.403 | 2.021 | 2.751 | 3.593 | 4.547 | 5.614 |
| | Deflection Factor | .001 | .002 | .004 | .009 | .017 | .029 | .047 | .072 |

#### Specifications

- NEMA Rating — AH3-4: 12C, 16A; AH4-4: 20A, 16B; AH5-4: 20B, 16C
- CSA — AH3-4: D/6m; AH4-4: E/3m; AH5-4: E/6m
- UL Cross Sectional Area — AH3-4, AH4-4: 1 in.$^2$; AH5-4: 1.5 in.$^2$
- Side Rail Design Factors, 1 Pair — AH3-4: Ix: 3.19 in.$^4$; Sx: 1.41 in.$^3$; Area: 1.22 in.$^2$; AH4-4: Ix: 3.89 in.$^4$; Sx: 1.75 in.$^3$; Area: 1.4 in.$^2$; AH5-4: Ix: 5 in.$^4$; Sx: 2.24 in.$^3$; Area: 1.76 in.$^2$



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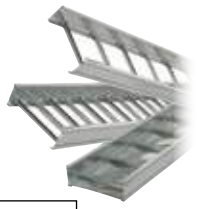
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# Aluminum Tray

## 5" Straight Sections, Series 2-5, 3-5, 4-5 — Ladder, Ventilated and Solid Trough



**A H 2 - 5 - 24 L09 - 144**

| Material | Style | Series | Side Rail Height | Width | Bottom Type | Length |
|---|---|---|---|---|---|---|
| **A** = Aluminum | **H** = H-Beam | **2** = Series 2<br>**3** = Series 3<br>**4** = Series 4 | **5"** | **06** = 6"<br>**09** = 9"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **L06** = 6" Rung Spacing<br>**L09** = 9" Rung Spacing<br>**L12** = 12" Rung Spacing<br>**V** = Ventilated<br>**S** = Solid Trough | **144** = 12 ft.<br>**288** = 24 ft.<br>**3** = 3m<br>**6** = 6m |

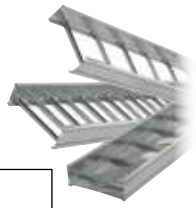
### Support Span

| SERIES | | FEET 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|
| AH2-5 | Load (lb./ft.) | 511 | 288 | 184 | 128 | 94 | 72 | 57 | 46 |
| | Deflection (in.) | .328 | .584 | .912 | 1.313 | 1.787 | 2.334 | 2.955 | 3.648 |
| | Deflection Factor | .001 | .002 | .005 | .010 | .019 | .032 | .052 | .079 |
| AH3-5 | Load (lb./ft.) | 600 | 338 | 216 | 150 | 110 | 84 | 67 | 54 |
| | Deflection (in.) | .313 | .557 | .870 | 1.253 | 1.706 | 2.228 | 2.820 | 3.481 |
| | Deflection Factor | .001 | .002 | .004 | .008 | .015 | .026 | .042 | .064 |
| AH4-5 | Load (lb./ft.) | 844 | 475 | 304 | 211 | 155 | 119 | 94 | 76 |
| | Deflection (in.) | .337 | .599 | .936 | 1.348 | 1.834 | 2.396 | 3.033 | 3.744 |
| | Deflection Factor | .004 | .001 | .003 | .006 | .012 | .020 | .032 | .049 |

### Specifications

- NEMA Rating — AH2-5: 12C, 16A; AH3-5: 20A, 16B; AH4-5: 20B, 16C
- CSA — AH2-5: D/6m; AH3-5: E/3m; AH4-5: E/6m
- UL Cross Sectional Area — AH2-5: 1 in.$^2$; AH3-5, AH4-5: 1.5 in.$^2$
- Side Rail Design Factors, 1 Pair — AH2-5: Ix: 4.54 in.$^4$; Sx: 1.73 in.$^3$; Area: 1.23 in.$^2$; AH3-5: Ix: 5.58 in.$^4$; Sx: 2.13 in.$^3$; Area: 1.52 in.$^2$; AH4-5: Ix: 7.31 in.$^4$; Sx: 2.66 in.$^3$; Area: 1.87 in.$^2$

## 6" Straight Sections, Series 1-6, 2-6, 3-6 — Ladder, Ventilated and Solid Trough



**A H 2 - 6 - 24 L09 - 144**

| Material | Style | Series | Side Rail Height | Width | Bottom Type | Length |
|---|---|---|---|---|---|---|
| **A** = Aluminum | **H** = H-Beam | **0** = Series 0*<br>**1** = Series 1<br>**2** = Series 2<br>**3** = Series 3 | **6"** | **06** = 6"<br>**09** = 9"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **L06** = 6" Rung Spacing<br>**L09** = 9" Rung Spacing<br>**L12** = 12" Rung Spacing<br>**V** = Ventilated**<br>**S** = Solid Trough | **144** = 12 ft.<br>**288** = 24 ft.<br>**3** = 3m<br>**6** = 6m |

### Support Span

| SERIES | | FEET 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|
| AH0-6 | Load (lb./ft.) | 308 | 173 | 111 | 77 | — | — | — | — |
| | Deflection (in.) | .069 | .128 | .384 | .552 | — | — | — | — |
| | Deflection Factor | .0002 | .0007 | .003 | .007 | — | — | — | — |
| AH1-6 | Load (lb./ft.) | 511 | 288 | 184 | 128 | 94 | 72 | 57 | 46 |
| | Deflection (in.) | .191 | .340 | .531 | .764 | 1.040 | 1.359 | 1.720 | 2.132 |
| | Deflection Factor | .0004 | .001 | .003 | .006 | .011 | .019 | .030 | .046 |
| AH2-6 | Load (lb./ft.) | 589 | 331 | 212 | 147 | 108 | 83 | 65 | 53 |
| | Deflection (in.) | .203 | .360 | .563 | .811 | 1.104 | 1.442 | 1.825 | 2.253 |
| | Deflection Factor | .0003 | .001 | .003 | .006 | .010 | .017 | .028 | .043 |
| AH3-6 | Load (lb./ft.) | 889 | 500 | 320 | 222 | 163 | 125 | 99 | 80 |
| | Deflection (in.) | .199 | .353 | .552 | .794 | 1.081 | 1.412 | 1.788 | 2.207 |
| | Deflection Factor | .0002 | .001 | .002 | .004 | .007 | .011 | .018 | .028 |

### Specifications

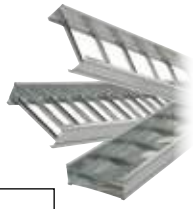
- NEMA Rating — AH0-6: 12B; AH1-6: 12C, 16A; AH2-6: 20A, 16B; AH3-6: 20B, 16C
- CSA — AH0-6: C; AH1-6: D/6M; AH2-6: E/3M; AH3-6: E/6M
- UL Cross Sectional Area — AH0-6, AH1-6: 1 in.$^2$; AH2-6: 1.5 in.$^2$; AH3-6: 2 in.$^2$
- Side Rail Design Factors, 1 Pair — AH0-6: Ix: 6.27 in.$^4$; Sx: 1.92 in.$^3$; Area: 1.22 in.$^2$; AH1-6: Ix: 7.8 in.$^4$; Sx: 2.36 in.$^3$; Area: 1.43 in.$^2$; AH2-6: Ix: 8.47 in.$^4$; Sx: 2.59 in.$^3$; Area: 1.55 in.$^2$; AH3-6: Ix: 13.05 in.$^4$; Sx: 3.88 in.$^3$; Area: 2.12 in.$^2$

** Available in 12-ft. and 3m lengths only.*

*** For load ratings of CSA Class C/NEMA 12C or less, please see an alternative ventilated series of Cable Tray on* ***pages B-334–B-357****.*

## Aluminum Tray

### 6" Straight Sections, Series 4-6, 5-6, 6-6 — Ladder, Ventilated and Solid Trough



**A H 5 - 6 - 24 L09 - 144**

| Material | Style | Series | Side Rail Height | Width | Bottom Type | Length |
|---|---|---|---|---|---|---|
| **A** = Aluminum | **H** = H-Beam | **4** = Series 4<br>**5** = Series 5<br>**6** = Series 6 | **6"** | **06** = 6"<br>**09** = 9"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **L06** = 6" Rung Spacing<br>**L09** = 9" Rung Spacing<br>**L12** = 12" Rung Spacing<br>**V** = Ventilated<br>**S** = Solid Trough | **144** = 12 ft.<br>**288** = 24 ft.<br>**3** = 3m<br>**6** = 6m |

#### Support Span

| SERIES | | FEET 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|
| AH4-6 | Load (lb./ft.) | 1133 | 638 | 408 | 283 | 208 | 159 | 126 | 102 |
| | Deflection (in.) | .238 | .424 | .662 | .954 | 1.298 | 1.696 | 2.146 | 2.649 |
| | Deflection Factor | .0002 | .001 | .002 | .003 | .006 | .011 | .017 | .026 |
| AH5-6 | Load (lb./ft.) | 1334 | 756 | 484 | 336 | 247 | 189 | 149 | 121 |
| | Deflection (in.) | .249 | .443 | .693 | .997 | 1.358 | 1.773 | 2.244 | 2.771 |
| | Deflection Factor | .0002 | .001 | .002 | .003 | .005 | .009 | .015 | .023 |
| AH6-6 | Load (lb./ft.) | 1889 | 1063 | 680 | 472 | 347 | 266 | 210 | 170 |
| | Deflection (in.) | .315 | .560 | .875 | 1.260 | 1.715 | 2.240 | 2.835 | 3.500 |
| | Deflection Factor | .0002 | .001 | .001 | .003 | .005 | .008 | .014 | .021 |

#### Specifications

- NEMA Rating — AH4-6: 20C; AH5-6, AH6-6: Exceeds 20C
- UL Cross Sectional Area — All: 2.00 in.$^2$
- Side Rail Design Factors, 1 Pair — AH4-6: Ix: 13.86 in.$^4$; Sx: 4.07 in.$^3$; Area: 2.32 in.$^2$; AH5-6: Ix: 15.63 in.$^4$; Sx: 4.66 in.$^3$; Area: 2.68 in.$^2$; AH6-6: Ix: 18.84 in.$^4$; Sx: 5.51 in.$^3$; Area: 3.25 in.$^2$

***Note**: See appendix for information on "Heavy Load" bearing trays and spans beyond 6m.*

### 7" Straight Sections, Series 2-7, 3-7

**A H 2 - 7 - 24 L09 - 144**

| Material | Style | Series | Side Rail Height | Width | Bottom Type | Length |
|---|---|---|---|---|---|---|
| **A** = Aluminum | **H** = H-Beam | **2** = Series 2<br>**3** = Series 3 | **7"** | **06** = 6"<br>**09** = 9"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **L06** = 6" Rung Spacing<br>**L09** = 9" Rung Spacing<br>**L12** = 12" Rung Spacing<br>**V** = Ventilated<br>**S** = Solid Trough | **144** = 12 ft.<br>**288** = 24 ft.<br>**3** = 3m<br>**6** = 6m |

#### Support Span

| SERIES | | FEET 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|
| AH2-7 | Load (lb./ft.) | 844 | 475 | 304 | 211 | 155 | 119 | 94 | 76 |
| | Deflection (in.) | .149 | .265 | .415 | .597 | .813 | 1.061 | 1.343 | 1.658 |
| | Deflection Factor | .0002 | .001 | .001 | .003 | .005 | .009 | .014 | .022 |
| AH3-7 | Load (lb./ft.) | 1456 | 819 | 524 | 364 | 267 | 205 | 162 | 131 |
| | Deflection (in.) | .168 | .298 | .466 | .671 | .913 | 1.192 | 1.509 | 1.863 |
| | Deflection Factor | .0001 | .0004 | .001 | .002 | .003 | .006 | .009 | .014 |

#### Specifications

- NEMA Rating — AH2-7: 20B; AH3-7: Exceeds 20C
- CSA — AH2-7: E/6m
- UL Cross Sectional Area — All: 2.00 in.$^2$
- Side Rail Design Factors, 1 Pair — AH2-7: Ix: 20.24 in.$^4$; Sx: 5.00 in.$^3$; Area: 2.66 in.$^2$; AH3-7: Ix: 25.32 in.$^4$; Sx: 6.35 in.$^3$; Area: 3.30 in.$^2$

***Note**: See appendix for information on "Heavy Load" bearing trays and spans beyond 6m.*



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## Aluminum Tray

# Which Tray Style Meets the Project Criteria and Budget?

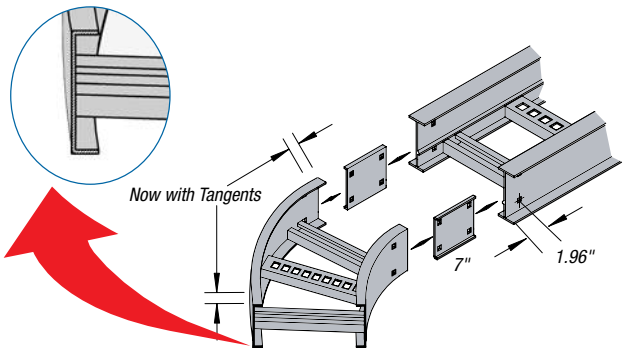
## U-Style features fittings constructed with side rail flanges on the inside only (U-Beam).

**Features**

- Functional design
- Simplicity of design
- Tangents on fittings
- 7" snap-in splice plate
- U-shaped fitting side rails

**Benefits**

- Lowest purchase price
- Easy to install
- Occupies less space in areas where space is restrained
- Easy to align straights
- Splice plate holds components together while hardware is inserted
- Lighter fittings are easy to handle



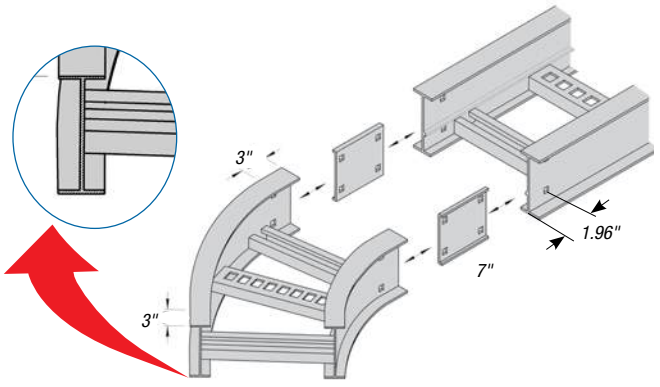

## H-Style features fittings constructed with side rail having inner and outer flanges (H-Beam).

**Features**

- Premium design
- Simplicity of design
- 3" tangents on fittings
- 7" snap-in splice plate
- H-shaped fitting side rails

**Benefits**

- Improved aesthetics and customer appeal
- Easy to install
- Improved system rigidity
- Easy to align straights and fittings
- Splice plate holds components together while hardware is inserted



## Aluminum Tray

# Fitting Number Selection

Fittings in a cable tray system are required to change cable routing direction and to join straight sections and other fittings. This step of the cable tray selection process requires that the specifier chooses between two distinct styles, U and H.

***Note**: The U-Style and H-Style systems are interchangeable.*

### U-Style Fitting

- A U-shaped extrusion forms the fitting side rail
- U-Style fittings utilize a 7" splice plate and the fittings have tangents at the extremities
- This style offers maximum quality versus cost ratios of the installation

### H-Style Fitting

- An H-shaped extrusion forms the fitting side rail
- H-Style fittings utilize a 7" splice plate and the fittings have 3" tangents at the extremities
- This style offers enhanced aesthetics to the end-user and increased system rigidity

**A UF - 6 - 24 L - VO 60 - 12**

| Fitting Material | Fitting Style | Side Rail Height | Width | Bottom Type | Fitting Type | Angle‡ | Nominal Radius† |
|---|---|---|---|---|---|---|---|
| **A** = Aluminum | **UF** = U-Beam<br>**HF** = H-Beam | **4"**<br>**5"**<br>**6"**<br>**7"** | **06** = 6"<br>**09** = 9"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **L** = Ladder*<br>**V** = Ventilated**<br>**S** = Solid Trough*** | **HB** = Horizontal Bend<br>**HT** = Horizontal Tee<br>**HX** = Horizontal Cross<br>**VI** = Vertical Inside Bend<br>**VO** = Vertical Outside Bend<br>**VTD** = Vertical Tee Down<br>**VTU** = Vertical Tee Up<br>**HYR** = Horizontal Wye Right<br>**HYL** = Horizontal Wye Left<br>**RT** = Horizontal Reducing Tee<br>**ET** = Horizontal Expanding Tee<br>**EX** = Horizontal Expand Cross<br>**HLR** = Horizontal Left Reducer<br>**HSR** = Horizontal Straight Reducer<br>**HRR** = Horizontal Right Reducer<br>**CS** = Cable Support Fitting | **30** = 30°<br>**45** = 45°<br>**60** = 60°<br>**90** = 90° | **12** = 12"<br>**24** = 24"<br>**36** = 36"<br>**48** = 48" |

** Manufactured with 9" rung spacing measured at the center line of fitting.*

**** Manufactured with 4" edge to edge rung spacing measured at the center line of fitting.*

***** Manufactured with flat sheet inserted under rungs with 9" rung spacing measured at the center line of fitting.*

*‡ Angle is required for HB, VI, VO only.*

*† Radius is not required for the following Fitting Types: HYR, HYL, HLR, HRR, HSR*



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## Aluminum Tray

# Horizontal Bends

### U-Style

**90° Horizontal Bend**
*page B-274*



**60° Horizontal Bend**
*page B-274*



**45° Horizontal Bend**
*page B-276*



**30° Horizontal Bend**
*page B-276*



### H-Style

**90° Horizontal Bend**
*page B-275*



**60° Horizontal Bend**
*page B-275*



**45° Horizontal Bend**
*page B-277*



**30° Horizontal Bend**
*page B-277*



*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

## Aluminum Tray

### Horizontal Tees, Crosses

#### U-Style

**Tee**
*page B-278*

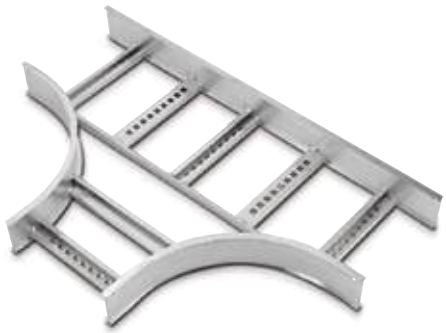


**Cross**
*page B-278*



#### H-Style

**Tee**
*page B-279*



**Cross**
*page B-279*



### Horizontal Reducing Tees

#### U-Style

*page B-280*



#### H-Style

*page B-281*



*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*



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## Aluminum Tray

### Horizontal Expanding Tees

#### U-Style

*page B-282*



#### H-Style

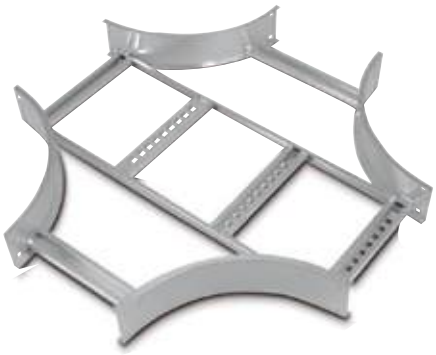
*page B-283*



### Horizontal Expanding Crosses

#### U-Style

*page B-284*



#### H-Style

*page B-285*



*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

## Aluminum Tray

### Reducers

#### U-Style



Offset Reducer - Right
*page B-286*



Offset Reducer - Left
*page B-286*



Reducer - Straight
*page B-286*

#### H-Style



Offset Reducer - Right
*page B-287*



Offset Reducer - Left
*page B-287*



Reducer - Straight
*page B-287*

### Horizontal Wyes

#### U-Style

Left-Hand Wye
*page B-288*



Right-Hand Wye
*page B-288*



#### H-Style

Left-Hand Wye
*page B-289*



Right-Hand Wye
*page B-289*



*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*



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## Aluminum Tray

# Vertical Bends

### U-Style

**90° Outside Bend**
*page B-290*



**90° Inside Bend**
*page B-290*



**60° Outside Bend**
*page B-292*



**60° Inside Bend**
*page B-292*



### H-Style

**90° Outside Bend**
*page B-291*



**90° Inside Bend**
*page B-291*



**60° Outside Bend**
*page B-293*



**60° Inside Bend**
*page B-293*



*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

## Aluminum Tray

# Vertical Bends *(continued)*

### U-Style

**45° Outside Bend**
*page B-294*



**45° Inside Bend**
*page B-294*



**30° Outside Bend**
*page B-296*



**30° Inside Bend**
*page B-296*



### H-Style

**45° Outside Bend**
*page B-295*



**45° Inside Bend**
*page B-295*



**30° Outside Bend**
*page B-297*



**30° Inside Bend**
*page B-297*



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## Aluminum Tray

### Vertical Tees Up/Down

#### U-Style

**Up**
*page B-298*



**Down**
*page B-298*



#### H-Style

**Up**
*page B-299*



**Down**
*page B-299*



### Cable Supports

#### U-Style

*page B-300*



#### H-Style

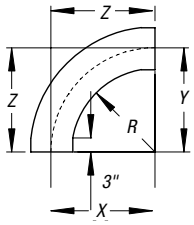
*page B-301*



*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

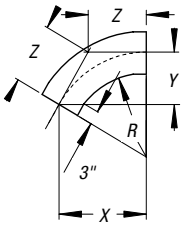
## Aluminum Tray






90° Horizontal Bend






60° Horizontal Bend

### Catalog Numbering System

| AUF | - | 4 | - | 24 | - | L | - | HB | 60 | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

### Selection Guide

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Angle**: 90°, 60°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"– 7"

### U-Style 90° Horizontal Bends

| NOMINAL RADIUS | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z |
| 12 | 6 | AUF(†)-06-(*)-HB90-12 | 15 | 15 | 15 |
| | 9 | AUF(†)-09-(*)-HB90-12 | 16½ | 16½ | 16½ |
| | 12 | AUF(†)-12-(*)-HB90-12 | 18 | 18 | 18 |
| | 18 | AUF(†)-18-(*)-HB90-12 | 21 | 21 | 21 |
| | 24 | AUF(†)-24-(*)-HB90-12 | 24 | 24 | 24 |
| | 30 | AUF(†)-30-(*)-HB90-12 | 27 | 27 | 27 |
| | 36 | AUF(†)-36-(*)-HB90-12 | 30 | 30 | 30 |
| 24 | 6 | AUF(†)-06-(*)-HB90-24 | 27 | 27 | 27 |
| | 9 | AUF(†)-09-(*)-HB90-24 | 28½ | 28½ | 28½ |
| | 12 | AUF(†)-12-(*)-HB90-24 | 30 | 30 | 30 |
| | 18 | AUF(†)-18-(*)-HB90-24 | 33 | 33 | 33 |
| | 24 | AUF(†)-24-(*)-HB90-24 | 36 | 36 | 36 |
| | 30 | AUF(†)-30-(*)-HB90-24 | 39 | 39 | 39 |
| | 36 | AUF(†)-36-(*)-HB90-24 | 42 | 42 | 42 |
| 36 | 6 | AUF(†)-06-(*)-HB90-36 | 39 | 39 | 39 |
| | 9 | AUF(†)-09-(*)-HB90-36 | 40½ | 40½ | 40½ |
| | 12 | AUF(†)-12-(*)-HB90-36 | 42 | 42 | 42 |
| | 18 | AUF(†)-18-(*)-HB90-36 | 45 | 45 | 45 |
| | 24 | AUF(†)-24-(*)-HB90-36 | 48 | 48 | 48 |
| | 30 | AUF(†)-30-(*)-HB90-36 | 51 | 51 | 51 |
| | 36 | AUF(†)-36-(*)-HB90-36 | 54 | 54 | 54 |
| 48 | 6 | AUF(†)-06-(*)-HB90-48 | 51 | 51 | 51 |
| | 9 | AUF(†)-09-(*)-HB90-48 | 52½ | 52½ | 52½ |
| | 12 | AUF(†)-12-(*)-HB90-48 | 54 | 54 | 54 |
| | 18 | AUF(†)-18-(*)-HB90-48 | 57 | 57 | 57 |
| | 24 | AUF(†)-24-(*)-HB90-48 | 60 | 60 | 60 |
| | 30 | AUF(†)-30-(*)-HB90-48 | 63 | 63 | 63 |
| | 36 | AUF(†)-36-(*)-HB90-48 | 66 | 66 | 66 |

### U-Style 60° Horizontal Bends

| NOMINAL RADIUS | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z |
| 12 | 6 | AUF(†)-06-(*)-HB60-12 | 14⅞ | 8⅝ | 9 15/16 |
| | 9 | AUF(†)-09-(*)-HB60-12 | 16 3/16 | 9⅜ | 10 13/16 |
| | 12 | AUF(†)-12-(*)-HB60-12 | 17½ | 10⅛ | 11 1/16 |
| | 18 | AUF(†)-18-(*)-HB60-12 | 20 1/16 | 11⅝ | 13⅜ |
| | 24 | AUF(†)-24-(*)-HB60-12 | 22 1/16 | 13⅛ | 15⅛ |
| | 30 | AUF(†)-30-(*)-HB60-12 | 25 5/16 | 14⅝ | 16⅞ |
| | 36 | AUF(†)-36-(*)-HB60-12 | 27⅞ | 16⅛ | 18 9/16 |
| 24 | 6 | AUF(†)-06-(*)-HB60-24 | 25 5/16 | 14⅝ | 16⅞ |
| | 9 | AUF(†)-09-(*)-HB60-24 | 26 9/16 | 15⅜ | 17¾ |
| | 12 | AUF(†)-12-(*)-HB60-24 | 27⅞ | 16⅛ | 18 9/16 |
| | 18 | AUF(†)-18-(*)-HB60-24 | 30½ | 17⅝ | 20 5/16 |
| | 24 | AUF(†)-24-(*)-HB60-24 | 33 1/16 | 19⅛ | 22 1/16 |
| | 30 | AUF(†)-30-(*)-HB60-24 | 35 1/16 | 20⅝ | 23 13/16 |
| | 36 | AUF(†)-36-(*)-HB60-24 | 38¼ | 22⅛ | 25½ |
| 36 | 6 | AUF(†)-06-(*)-HB60-36 | 35 1/16 | 20⅝ | 23 13/16 |
| | 9 | AUF(†)-09-(*)-HB60-36 | 37 | 21⅜ | 24⅝ |
| | 12 | AUF(†)-12-(*)-HB60-36 | 38¼ | 22⅛ | 25½ |
| | 18 | AUF(†)-18-(*)-HB60-36 | 40⅞ | 23⅝ | 27⅜ |
| | 24 | AUF(†)-24-(*)-HB60-36 | 43½ | 25⅛ | 29 |
| | 30 | AUF(†)-30-(*)-HB60-36 | 46 1/16 | 26⅝ | 30 1/16 |
| | 36 | AUF(†)-36-(*)-HB60-36 | 48 1/16 | 28⅛ | 32 7/16 |
| 48 | 6 | AUF(†)-06-(*)-HB60-48 | 46 1/16 | 26⅝ | 30 1/16 |
| | 9 | AUF(†)-09-(*)-HB60-48 | 47⅜ | 27⅜ | 31 9/16 |
| | 12 | AUF(†)-12-(*)-HB60-48 | 48 1/16 | 28⅛ | 32 7/16 |
| | 18 | AUF(†)-18-(*)-HB60-48 | 51 1/16 | 29⅝ | 34 3/16 |
| | 24 | AUF(†)-24-(*)-HB60-48 | 53⅞ | 31⅛ | 35 15/16 |
| | 30 | AUF(†)-30-(*)-HB60-48 | 56 7/16 | 32⅝ | 37⅝ |
| | 36 | AUF(†)-36-(*)-HB60-48 | 59 1/16 | 34⅛ | 39⅜ |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number.*

*Includes one pair of splice plates with hardware.*

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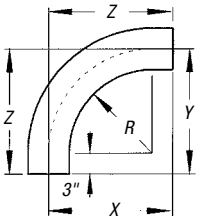
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# Aluminum Tray

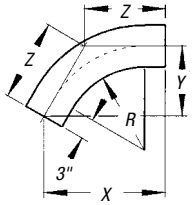


90° Horizontal Bend






60° Horizontal Bend




## Catalog Numbering System

| AHF | - | 4 | - | 24 | - | L | - | HB | 60 | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

## Selection Guide

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Angle**: 90°, 60°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"– 7"

## H-Style 90° Horizontal Bends

| NOMINAL RADIUS | | | DIMENSIONS | |
|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y |
| 12 | 6 | AHF(†)-06-(*)-HB90-12 | 18 | 18 |
| | 9 | AHF(†)-09-(*)-HB90-12 | 19½ | 19½ |
| | 12 | AHF(†)-12-(*)-HB90-12 | 21 | 21 |
| | 18 | AHF(†)-18-(*)-HB90-12 | 24 | 24 |
| | 24 | AHF(†)-24-(*)-HB90-12 | 27 | 27 |
| | 30 | AHF(†)-30-(*)-HB90-12 | 30 | 30 |
| | 36 | AHF(†)-36-(*)-HB90-12 | 33 | 33 |
| 24 | 6 | AHF(†)-06-(*)-HB90-24 | 30 | 30 |
| | 9 | AHF(†)-09-(*)-HB90-24 | 31½ | 31½ |
| | 12 | AHF(†)-12-(*)-HB90-24 | 33 | 33 |
| | 18 | AHF(†)-18-(*)-HB90-24 | 36 | 36 |
| | 24 | AHF(†)-24-(*)-HB90-24 | 39 | 39 |
| | 30 | AHF(†)-30-(*)-HB90-24 | 42 | 42 |
| | 36 | AHF(†)-36-(*)-HB90-24 | 45 | 45 |
| 36 | 6 | AHF(†)-06-(*)-HB90-36 | 42 | 42 |
| | 9 | AHF(†)-09-(*)-HB90-36 | 43½ | 43½ |
| | 12 | AHF(†)-12-(*)-HB90-36 | 45 | 45 |
| | 18 | AHF(†)-18-(*)-HB90-36 | 48 | 48 |
| | 24 | AHF(†)-24-(*)-HB90-36 | 51 | 51 |
| | 30 | AHF(†)-30-(*)-HB90-36 | 54 | 54 |
| | 36 | AHF(†)-36-(*)-HB90-36 | 57 | 57 |
| 48 | 6 | AHF(†)-06-(*)-HB90-48 | 54 | 54 |
| | 9 | AHF(†)-09-(*)-HB90-48 | 55½ | 55½ |
| | 12 | AHF(†)-12-(*)-HB90-48 | 57 | 57 |
| | 18 | AHF(†)-18-(*)-HB90-48 | 60 | 60 |
| | 24 | AHF(†)-24-(*)-HB90-48 | 63 | 63 |
| | 30 | AHF(†)-30-(*)-HB90-48 | 66 | 66 |
| | 36 | AHF(†)-36-(*)-HB90-48 | 69 | 69 |

## H-Style 60° Horizontal Bends

| NOMINAL RADIUS | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z |
| 12 | 6 | AHF(†)-06-(*)-HB60-12 | 17½ | 10⅛ | 11 11/16 |
| | 9 | AHF(†)-09-(*)-HB60-12 | 18 13/16 | 10⅞ | 12½ |
| | 12 | AHF(†)-12-(*)-HB60-12 | 20 1/16 | 11⅝ | 13⅜ |
| | 18 | AHF(†)-18-(*)-HB60-12 | 22 11/16 | 13⅛ | 15⅛ |
| | 24 | AHF(†)-24-(*)-HB60-12 | 25 5/16 | 14⅝ | 16⅞ |
| | 30 | AHF(†)-30-(*)-HB60-12 | 27⅞ | 16⅛ | 18 9/16 |
| | 36 | AHF(†)-36-(*)-HB60-12 | 30½ | 17⅝ | 20 5/16 |
| 24 | 6 | AHF(†)-06-(*)-HB60-24 | 27⅞ | 16⅛ | 18 9/16 |
| | 9 | AHF(†)-09-(*)-HB60-24 | 29 3/16 | 16⅞ | 19 7/16 |
| | 12 | AHF(†)-12-(*)-HB60-24 | 30½ | 17⅝ | 20 5/16 |
| | 18 | AHF(†)-18-(*)-HB60-24 | 33 1/16 | 19⅛ | 22 1/16 |
| | 24 | AHF(†)-24-(*)-HB60-24 | 35 11/16 | 20⅝ | 23 13/16 |
| | 30 | AHF(†)-30-(*)-HB60-24 | 38¼ | 22⅛ | 25½ |
| | 36 | AHF(†)-36-(*)-HB60-24 | 40⅞ | 23⅜ | 27¼ |
| 36 | 6 | AHF(†)-06-(*)-HB60-36 | 38¼ | 22⅛ | 25½ |
| | 9 | AHF(†)-09-(*)-HB60-36 | 39 9/16 | 22⅞ | 26⅜ |
| | 12 | AHF(†)-12-(*)-HB60-36 | 40⅞ | 23⅜ | 27¼ |
| | 18 | AHF(†)-18-(*)-HB60-36 | 43½ | 25⅛ | 29 |
| | 24 | AHF(†)-24-(*)-HB60-36 | 46 1/16 | 26⅝ | 30 11/16 |
| | 30 | AHF(†)-30-(*)-HB60-36 | 48 11/16 | 28⅛ | 32 1/16 |
| | 36 | AHF(†)-36-(*)-HB60-36 | 51¼ | 29⅝ | 34 3/16 |
| 48 | 6 | AHF(†)-06-(*)-HB60-48 | 48 11/16 | 28⅛ | 32 1/16 |
| | 9 | AHF(†)-09-(*)-HB60-48 | 49 15/16 | 28⅞ | 33 5/16 |
| | 12 | AHF(†)-12-(*)-HB60-48 | 51¼ | 29⅝ | 34 3/16 |
| | 18 | AHF(†)-18-(*)-HB60-48 | 53⅜ | 31⅛ | 35 15/16 |
| | 24 | AHF(†)-24-(*)-HB60-48 | 56 7/16 | 32⅝ | 37⅝ |
| | 30 | AHF(†)-30-(*)-HB60-48 | 59 1/16 | 34⅛ | 39⅜ |
| | 36 | AHF(†)-36-(*)-HB60-48 | 61 11/16 | 35⅝ | 41⅛ |

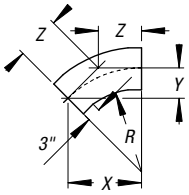
*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number.*

*Includes one pair of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

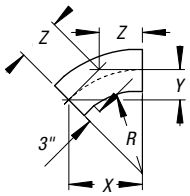
## Aluminum Tray






*45° Horizontal Bend*






*30° Horizontal Bend*

### Catalog Numbering System

| AUF | - | 4 | - | 24 | - | L | - | HB | 45 | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

### Selection Guide

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Angle**: 45°, 30°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"– 7"

### U-Style 45° Horizontal Bends

| NOMINAL RADIUS | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z |
| 12 | 6 | AUF(†)-06-(*)-HB45-12 | 13⅜ | 5⅝ | 8 |
| | 9 | AUF(†)-09-(*)-HB45-12 | 14 1/16 | 6 1/16 | 8 9/16 |
| | 12 | AUF(†)-12-(*)-HB45-12 | 15¾ | 6½ | 9 3/16 |
| | 18 | AUF(†)-18-(*)-HB45-12 | 17⅞ | 7⅜ | 10 7/16 |
| | 24 | AUF(†)-24-(*)-HB45-12 | 20 | 8¼ | 11 11/16 |
| | 30 | AUF(†)-30-(*)-HB45-12 | 22 1/16 | 9⅛ | 12 15/16 |
| | 36 | AUF(†)-36-(*)-HB45-12 | 24 3/16 | 10 | 14 3/16 |
| 24 | 6 | AUF(†)-06-(*)-HB45-24 | 22 1/16 | 9⅛ | 12 15/16 |
| | 9 | AUF(†)-09-(*)-HB45-24 | 23⅛ | 9 9/16 | 13 9/16 |
| | 12 | AUF(†)-12-(*)-HB45-24 | 24 3/16 | 10 | 14 3/16 |
| | 18 | AUF(†)-18-(*)-HB45-24 | 26 5/16 | 10 15/16 | 15 7/16 |
| | 24 | AUF(†)-24-(*)-HB45-24 | 28 7/16 | 11 13/16 | 16 11/16 |
| | 30 | AUF(†)-30-(*)-HB45-24 | 30 9/16 | 12 11/16 | 17 15/16 |
| | 36 | AUF(†)-36-(*)-HB45-24 | 32 11/16 | 13 9/16 | 19⅛ |
| 36 | 6 | AUF(†)-06-(*)-HB45-36 | 30 9/16 | 12 11/16 | 17 15/16 |
| | 9 | AUF(†)-09-(*)-HB45-36 | 31⅝ | 13⅛ | 18 9/16 |
| | 12 | AUF(†)-12-(*)-HB45-36 | 32 11/16 | 13 9/16 | 19⅛ |
| | 18 | AUF(†)-18-(*)-HB45-36 | 34 13/16 | 14 7/16 | 20⅜ |
| | 24 | AUF(†)-24-(*)-HB45-36 | 36 15/16 | 15 5/16 | 21⅝ |
| | 30 | AUF(†)-30-(*)-HB45-36 | 39 1/16 | 16 3/16 | 22⅞ |
| | 36 | AUF(†)-36-(*)-HB45-36 | 41 3/16 | 17 1/16 | 24⅛ |
| 48 | 6 | AUF(†)-06-(*)-HB45-48 | 39 1/16 | 16 3/16 | 22⅞ |
| | 9 | AUF(†)-09-(*)-HB45-48 | 40⅛ | 16⅜ | 23½ |
| | 12 | AUF(†)-12-(*)-HB45-48 | 41 3/16 | 17 1/16 | 24⅛ |
| | 18 | AUF(†)-18-(*)-HB45-48 | 43 5/16 | 17 15/16 | 25⅜ |
| | 24 | AUF(†)-24-(*)-HB45-48 | 45 7/16 | 18 13/16 | 26⅝ |
| | 30 | AUF(†)-30-(*)-HB45-48 | 47 9/16 | 19 11/16 | 27⅞ |
| | 36 | AUF(†)-36-(*)-HB45-48 | 49 11/16 | 20 9/16 | 29⅛ |

### U-Style 30° Horizontal Bends

| NOMINAL RADIUS | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z |
| 12 | 6 | AUF(†)-06-(*)-HB30-12 | 11⅝ | 3⅛ | 6 3/16 |
| | 9 | AUF(†)-09-(*)-HB30-12 | 12⅜ | 3 5/16 | 6⅝ |
| | 12 | AUF(†)-12-(*)-HB30-12 | 13½ | 3½ | 7 |
| | 18 | AUF(†)-18-(*)-HB30-12 | 14⅝ | 3 15/16 | 7 13/16 |
| | 24 | AUF(†)-24-(*)-HB30-12 | 16⅛ | 4 5/16 | 8⅝ |
| | 30 | AUF(†)-30-(*)-HB30-12 | 17⅝ | 4 11/16 | 9 7/16 |
| | 36 | AUF(†)-36-(*)-HB30-12 | 19⅛ | 5⅛ | 10¼ |
| 24 | 6 | AUF(†)-06-(*)-HB30-24 | 17⅝ | 4 11/16 | 9 7/16 |
| | 9 | AUF(†)-09-(*)-HB30-24 | 18⅜ | 4 15/16 | 9 13/16 |
| | 12 | AUF(†)-12-(*)-HB30-24 | 19⅛ | 5 1/16 | 10 1/16 |
| | 18 | AUF(†)-18-(*)-HB30-24 | 20⅝ | 5 5/16 | 11 1/16 |
| | 24 | AUF(†)-24-(*)-HB30-24 | 22⅛ | 5 15/16 | 11 13/16 |
| | 30 | AUF(†)-30-(*)-HB30-24 | 23⅝ | 6 5/16 | 12 10/16 |
| | 36 | AUF(†)-36-(*)-HB30-24 | 25⅛ | 6 13/16 | 13 7/16 |
| 36 | 6 | AUF(†)-06-(*)-HB30-36 | 23⅝ | 6 5/16 | 12⅝ |
| | 9 | AUF(†)-09-(*)-HB30-36 | 24⅜ | 6½ | 13 1/16 |
| | 12 | AUF(†)-12-(*)-HB30-36 | 25⅛ | 6¾ | 13 7/16 |
| | 18 | AUF(†)-18-(*)-HB30-36 | 26⅝ | 7¼ | 14¼ |
| | 24 | AUF(†)-24-(*)-HB30-36 | 28⅛ | 7½ | 15 1/16 |
| | 30 | AUF(†)-30-(*)-HB30-36 | 29⅝ | 7 15/16 | 15⅞ |
| | 36 | AUF(†)-36-(*)-HB30-36 | 31⅛ | 8 5/16 | 16 1/16 |
| 48 | 6 | AUF(†)-06-(*)-HB30-48 | 29⅝ | 7 15/16 | 15⅞ |
| | 9 | AUF(†)-09-(*)-HB30-48 | 30⅜ | 8⅛ | 16¼ |
| | 12 | AUF(†)-12-(*)-HB30-48 | 31⅛ | 8 5/16 | 16 1/16 |
| | 18 | AUF(†)-18-(*)-HB30-48 | 32⅝ | 8¾ | 17½ |
| | 24 | AUF(†)-24-(*)-HB30-48 | 34⅛ | 9⅛ | 18¼ |
| | 30 | AUF(†)-30-(*)-HB30-48 | 35⅝ | 9 9/16 | 19 1/16 |
| | 36 | AUF(†)-36-(*)-HB30-48 | 37⅛ | 9 15/16 | 19⅞ |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number.*

*Includes one pair of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*



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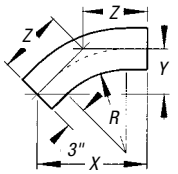
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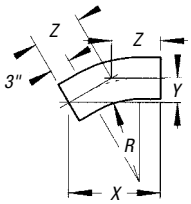
# Aluminum Tray






*45° Horizontal Bend*






*30° Horizontal Bend*

## Catalog Numbering System

| AUF | - | 4 | - | 24 | - | L | - | HB | 45 | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

## Selection Guide

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Angle**: 45°, 30°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"– 7"

### H-Style 45° Horizontal Bends

| NOMINAL RADIUS | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z |
| 12 | 6 | AHF(†)-06-(*)-HB45-12 | 15¾ | 6½ | 9³⁄₁₆ |
| | 9 | AHF(†)-09-(*)-HB45-12 | 16¹³⁄₁₆ | 6¹⁵⁄₁₆ | 9¹³⁄₁₆ |
| | 12 | AHF(†)-12-(*)-HB45-12 | 17⅞ | 7⅜ | 10⁷⁄₁₆ |
| | 18 | AHF(†)-18-(*)-HB45-12 | 20 | 8¼ | 11¹¹⁄₁₆ |
| | 24 | AHF(†)-24-(*)-HB45-12 | 22¹⁄₁₆ | 9⅛ | 12¹⁵⁄₁₆ |
| | 30 | AHF(†)-30-(*)-HB45-12 | 24³⁄₁₆ | 10 | 14³⁄₁₆ |
| | 36 | AHF(†)-36-(*)-HB45-12 | 26⁵⁄₁₆ | 10¹⁵⁄₁₆ | 15⁷⁄₁₆ |
| 24 | 6 | AHF(†)-06-(*)-HB45-24 | 24³⁄₁₆ | 10 | 14³⁄₁₆ |
| | 9 | AHF(†)-09-(*)-HB45-24 | 25¼ | 10½ | 14¹³⁄₁₆ |
| | 12 | AHF(†)-12-(*)-HB45-24 | 26⁵⁄₁₆ | 10¹⁵⁄₁₆ | 15⁷⁄₁₆ |
| | 18 | AHF(†)-18-(*)-HB45-24 | 28⅞ | 11¹³⁄₁₆ | 16¹¹⁄₁₆ |
| | 24 | AHF(†)-24-(*)-HB45-24 | 30⅜ | 12¹¹⁄₁₆ | 17¹⁵⁄₁₆ |
| | 30 | AHF(†)-30-(*)-HB45-24 | 32¹¹⁄₁₆ | 13⅜ | 19⅛ |
| | 36 | AHF(†)-36-(*)-HB45-24 | 34¹³⁄₁₆ | 14⅞ | 20⅜ |
| 36 | 6 | AHF(†)-06-(*)-HB45-36 | 32¹¹⁄₁₆ | 13⅜ | 19⅛ |
| | 9 | AHF(†)-09-(*)-HB45-36 | 33¾ | 14 | 19¾ |
| | 12 | AHF(†)-12-(*)-HB45-36 | 34¹³⁄₁₆ | 14⁷⁄₁₆ | 20⅜ |
| | 18 | AHF(†)-18-(*)-HB45-36 | 36¹⁵⁄₁₆ | 15⁹⁄₁₆ | 21⅝ |
| | 24 | AHF(†)-24-(*)-HB45-36 | 39¹⁄₁₆ | 16⅜ | 22⅞ |
| | 30 | AHF(†)-30-(*)-HB45-36 | 41³⁄₁₆ | 17¹⁄₁₆ | 24⅛ |
| | 36 | AHF(†)-36-(*)-HB45-36 | 43⁵⁄₁₆ | 17¹⁵⁄₁₆ | 25⅜ |
| 48 | 6 | AHF(†)-06-(*)-HB45-48 | 41³⁄₁₆ | 17¹⁄₁₆ | 24⅛ |
| | 9 | AHF(†)-09-(*)-HB45-48 | 42¼ | 17½ | 24¾ |
| | 12 | AHF(†)-12-(*)-HB45-48 | 43⁵⁄₁₆ | 17¹⁵⁄₁₆ | 25⅜ |
| | 18 | AHF(†)-18-(*)-HB45-48 | 45⁷⁄₁₆ | 18¹³⁄₁₆ | 26⅝ |
| | 24 | AHF(†)-24-(*)-HB45-48 | 47⁹⁄₁₆ | 19¹¹⁄₁₆ | 27¾ |
| | 30 | AHF(†)-30-(*)-HB45-48 | 49¹¹⁄₁₆ | 20⅜ | 29⅛ |
| | 36 | AHF(†)-36-(*)-HB45-48 | 51¹³⁄₁₆ | 21⁷⁄₁₆ | 30⁵⁄₁₆ |

### H-Style 30° Horizontal Bends

| NOMINAL RADIUS | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z |
| 12 | 6 | AHF(†)-06-(*)-HB30-12 | 13⅛ | 3½ | 7 |
| | 9 | AHF(†)-09-(*)-HB30-12 | 13⅞ | 3¹¹⁄₁₆ | 7⁷⁄₁₆ |
| | 12 | AHF(†)-12-(*)-HB30-12 | 14⅝ | 3¹⁵⁄₁₆ | 7¹³⁄₁₆ |
| | 18 | AHF(†)-18-(*)-HB30-12 | 16⅛ | 4⅝ | 8⅝ |
| | 24 | AHF(†)-24-(*)-HB30-12 | 17⅝ | 4¹¹⁄₁₆ | 9⅞ |
| | 30 | AHF(†)-30-(*)-HB30-12 | 19⅛ | 5⅛ | 10¼ |
| | 36 | AHF(†)-36-(*)-HB30-12 | 20⅝ | 5½ | 11¹⁄₁₆ |
| 24 | 6 | AHF(†)-06-(*)-HB30-24 | 19⅛ | 5⅛ | 10¼ |
| | 9 | AHF(†)-09-(*)-HB30-24 | 19⅞ | 5⁵⁄₁₆ | 10⅝ |
| | 12 | AHF(†)-12-(*)-HB30-24 | 20⅝ | 5½ | 11¹⁄₁₆ |
| | 18 | AHF(†)-18-(*)-HB30-24 | 22⅛ | 5⁵⁄₁₆ | 11¹³⁄₁₆ |
| | 24 | AHF(†)-24-(*)-HB30-24 | 23⅝ | 6⁵⁄₁₆ | 12⅝ |
| | 30 | AHF(†)-30-(*)-HB30-24 | 25⅛ | 6¾ | 13⁷⁄₁₆ |
| | 36 | AHF(†)-36-(*)-HB30-24 | 26⅝ | 7⅛ | 14¼ |
| 36 | 6 | AHF(†)-06-(*)-HB30-36 | 25⅛ | 6¾ | 13⁷⁄₁₆ |
| | 9 | AHF(†)-09-(*)-HB30-36 | 25⅞ | 6¹⁵⁄₁₆ | 13⅜ |
| | 12 | AHF(†)-12-(*)-HB30-36 | 26⅝ | 7⅛ | 14¼ |
| | 18 | AHF(†)-18-(*)-HB30-36 | 28⅛ | 7½ | 15¹⁄₁₆ |
| | 24 | AHF(†)-24-(*)-HB30-36 | 29⅝ | 7¹⁵⁄₁₆ | 15⅞ |
| | 30 | AHF(†)-30-(*)-HB30-36 | 31⅛ | 8⅝ | 16¹¹⁄₁₆ |
| | 36 | AHF(†)-36-(*)-HB30-36 | 32⅝ | 8¾ | 17½ |
| 48 | 6 | AHF(†)-06-(*)-HB30-48 | 31⅛ | 8⅝ | 16¹¹⁄₁₆ |
| | 9 | AHF(†)-09-(*)-HB30-48 | 31⅞ | 8⅝ | 17¹⁄₁₆ |
| | 12 | AHF(†)-12-(*)-HB30-48 | 32⅝ | 8¾ | 17½ |
| | 18 | AHF(†)-18-(*)-HB30-48 | 34⅛ | 9⅛ | 18¼ |
| | 24 | AHF(†)-24-(*)-HB30-48 | 35⅝ | 9⅝ | 19¹⁄₁₆ |
| | 30 | AHF(†)-30-(*)-HB30-48 | 37⅛ | 9¹⁵⁄₁₆ | 19⅞ |
| | 36 | AHF(†)-36-(*)-HB30-48 | 38⅝ | 10⁵⁄₁₆ | 20¹¹⁄₁₆ |

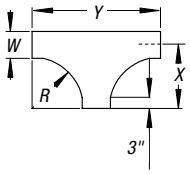
*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number.*

*Includes one pair of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

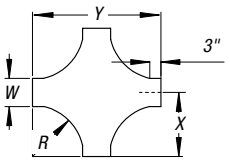
## Aluminum Tray






*Tee*






*Cross*

### Catalog Numbering System

| AUF | - | 5 | - | 06 | - | L | - | HT | 12 |
|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Nominal Radius |

### Selection Guide

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Angle**: 90°, 60°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"– 7"

### U-Style Horizontal Tees

| NOMINAL RADIUS | | | DIMENSIONS | |
|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y |
| 12 | 6 | AUF(†)-06-(*)-HT12 | 15 | 30 |
| | 9 | AUF(†)-09-(*)-HT12 | 16½ | 33 |
| | 12 | AUF(†)-12-(*)-HT12 | 18 | 36 |
| | 18 | AUF(†)-18-(*)-HT12 | 21 | 42 |
| | 24 | AUF(†)-24-(*)-HT12 | 24 | 48 |
| | 30 | AUF(†)-30-(*)-HT12 | 27 | 54 |
| | 36 | AUF(†)-36-(*)-HT12 | 30 | 60 |
| 24 | 6 | AUF(†)-06-(*)-HT24 | 27 | 54 |
| | 9 | AUF(†)-09-(*)-HT24 | 28½ | 57 |
| | 12 | AUF(†)-12-(*)-HT24 | 30 | 60 |
| | 18 | AUF(†)-18-(*)-HT24 | 33 | 66 |
| | 24 | AUF(†)-24-(*)-HT24 | 36 | 72 |
| | 30 | AUF(†)-30-(*)-HT24 | 39 | 78 |
| | 36 | AUF(†)-36-(*)-HT24 | 42 | 84 |
| 36 | 6 | AUF(†)-06-(*)-HT36 | 39 | 78 |
| | 9 | AUF(†)-09-(*)-HT36 | 40½ | 81 |
| | 12 | AUF(†)-12-(*)-HT36 | 42 | 84 |
| | 18 | AUF(†)-18-(*)-HT36 | 45 | 90 |
| | 24 | AUF(†)-24-(*)-HT36 | 48 | 96 |
| | 30 | AUF(†)-30-(*)-HT36 | 51 | 102 |
| | 36 | AUF(†)-36-(*)-HT36 | 54 | 108 |
| 48 | 6 | AUF(†)-06-(*)-HT48 | 51 | 102 |
| | 9 | AUF(†)-09-(*)-HT48 | 52½ | 105 |
| | 12 | AUF(†)-12-(*)-HT48 | 54 | 108 |
| | 18 | AUF(†)-18-(*)-HT48 | 57 | 114 |
| | 24 | AUF(†)-24-(*)-HT48 | 60 | 120 |
| | 30 | AUF(†)-30-(*)-HT48 | 63 | 126 |
| | 36 | AUF(†)-36-(*)-HT48 | 66 | 132 |

### U-Style Horizontal Crosses

| NOMINAL RADIUS | | | DIMENSIONS | |
|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y |
| 12 | 6 | AUF(†)-06-(*)-HX12 | 15 | 30 |
| | 9 | AUF(†)-09-(*)-HX12 | 16½ | 33 |
| | 12 | AUF(†)-12-(*)-HX12 | 18 | 36 |
| | 18 | AUF(†)-18-(*)-HX12 | 21 | 42 |
| | 24 | AUF(†)-24-(*)-HX12 | 24 | 48 |
| | 30 | AUF(†)-30-(*)-HX12 | 27 | 54 |
| | 36 | AUF(†)-36-(*)-HX12 | 30 | 60 |
| 24 | 6 | AUF(†)-06-(*)-HX24 | 27 | 54 |
| | 9 | AUF(†)-09-(*)-HX24 | 28½ | 57 |
| | 12 | AUF(†)-12-(*)-HX24 | 30 | 60 |
| | 18 | AUF(†)-18-(*)-HX24 | 33 | 66 |
| | 24 | AUF(†)-24-(*)-HX24 | 36 | 72 |
| | 30 | AUF(†)-30-(*)-HX24 | 39 | 78 |
| | 36 | AUF(†)-36-(*)-HX24 | 42 | 84 |
| 36 | 6 | AUF(†)-06-(*)-HX36 | 39 | 78 |
| | 9 | AUF(†)-09-(*)-HX36 | 40½ | 81 |
| | 12 | AUF(†)-12-(*)-HX36 | 42 | 84 |
| | 18 | AUF(†)-18-(*)-HX36 | 45 | 90 |
| | 24 | AUF(†)-24-(*)-HX36 | 48 | 96 |
| | 30 | AUF(†)-30-(*)-HX36 | 51 | 102 |
| | 36 | AUF(†)-36-(*)-HX36 | 54 | 108 |
| 48 | 6 | AUF(†)-06-(*)-HX48 | 51 | 102 |
| | 9 | AUF(†)-09-(*)-HX48 | 52½ | 105 |
| | 12 | AUF(†)-12-(*)-HX48 | 54 | 108 |
| | 18 | AUF(†)-18-(*)-HX48 | 57 | 114 |
| | 24 | AUF(†)-24-(*)-HX48 | 60 | 120 |
| | 30 | AUF(†)-30-(*)-HX48 | 63 | 126 |
| | 36 | AUF(†)-36-(*)-HX48 | 66 | 132 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number.*

*Includes one pair of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*



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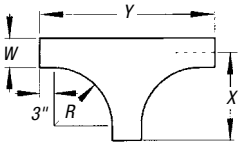
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# Aluminum Tray

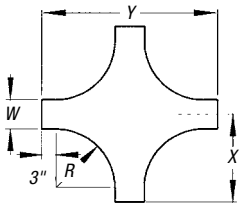


Tee






Cross




## Catalog Numbering System

| AHF | - | 5 | - | 06 | - | L | - | HT | 12 |
|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Nominal Radius |

## Selection Guide

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Angle**: 90°, 60°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"– 7"

## H-Style Horizontal Tees

| NOMINAL RADIUS | | | DIMENSIONS | |
|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y |
| 12 | 6 | AHF(†)-06-(*)-HT12 | 18 | 36 |
| | 9 | AHF(†)-09-(*)-HT12 | 19½ | 39 |
| | 12 | AHF(†)-12-(*)-HT12 | 21 | 42 |
| | 18 | AHF(†)-18-(*)-HT12 | 24 | 48 |
| | 24 | AHF(†)-24-(*)-HT12 | 27 | 54 |
| | 30 | AHF(†)-30-(*)-HT12 | 30 | 60 |
| | 36 | AHF(†)-36-(*)-HT12 | 33 | 66 |
| 24 | 6 | AHF(†)-06-(*)-HT24 | 30 | 60 |
| | 9 | AHF(†)-09-(*)-HT24 | 31½ | 63 |
| | 12 | AHF(†)-12-(*)-HT24 | 33 | 66 |
| | 18 | AHF(†)-18-(*)-HT24 | 36 | 72 |
| | 24 | AHF(†)-24-(*)-HT24 | 39 | 78 |
| | 30 | AHF(†)-30-(*)-HT24 | 42 | 84 |
| | 36 | AHF(†)-36-(*)-HT24 | 45 | 90 |
| 36 | 6 | AHF(†)-06-(*)-HT36 | 42 | 84 |
| | 9 | AHF(†)-09-(*)-HT36 | 43½ | 87 |
| | 12 | AHF(†)-12-(*)-HT36 | 45 | 90 |
| | 18 | AHF(†)-18-(*)-HT36 | 48 | 96 |
| | 24 | AHF(†)-24-(*)-HT36 | 51 | 102 |
| | 30 | AHF(†)-30-(*)-HT36 | 54 | 108 |
| | 36 | AHF(†)-36-(*)-HT36 | 57 | 114 |
| 48 | 6 | AHF(†)-06-(*)-HT48 | 54 | 108 |
| | 9 | AHF(†)-09-(*)-HT48 | 55½ | 111 |
| | 12 | AHF(†)-12-(*)-HT48 | 57 | 114 |
| | 18 | AHF(†)-18-(*)-HT48 | 60 | 120 |
| | 24 | AHF(†)-24-(*)-HT48 | 63 | 126 |
| | 30 | AHF(†)-30-(*)-HT48 | 66 | 132 |
| | 36 | AHF(†)-36-(*)-HT48 | 69 | 138 |

## H-Style Horizontal Crosses

| NOMINAL RADIUS | | | DIMENSIONS | |
|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y |
| 12 | 6 | AHF(†)-06-(*)-HX12 | 18 | 36 |
| | 9 | AHF(†)-09-(*)-HX12 | 19½ | 39 |
| | 12 | AHF(†)-12-(*)-HX12 | 21 | 42 |
| | 18 | AHF(†)-18-(*)-HX12 | 24 | 48 |
| | 24 | AHF(†)-24-(*)-HX12 | 27 | 54 |
| | 30 | AHF(†)-30-(*)-HX12 | 30 | 60 |
| | 36 | AHF(†)-36-(*)-HX12 | 33 | 66 |
| 24 | 6 | AHF(†)-06-(*)-HX24 | 30 | 60 |
| | 9 | AHF(†)-09-(*)-HX24 | 31½ | 63 |
| | 12 | AHF(†)-12-(*)-HX24 | 33 | 66 |
| | 18 | AHF(†)-18-(*)-HX24 | 36 | 72 |
| | 24 | AHF(†)-24-(*)-HX24 | 39 | 78 |
| | 30 | AHF(†)-30-(*)-HX24 | 42 | 84 |
| | 36 | AHF(†)-36-(*)-HX24 | 45 | 90 |
| 36 | 6 | AHF(†)-06-(*)-HX36 | 42 | 84 |
| | 9 | AHF(†)-09-(*)-HX36 | 43½ | 87 |
| | 12 | AHF(†)-12-(*)-HX36 | 45 | 90 |
| | 18 | AHF(†)-18-(*)-HX36 | 48 | 96 |
| | 24 | AHF(†)-24-(*)-HX36 | 51 | 102 |
| | 30 | AHF(†)-30-(*)-HX36 | 54 | 108 |
| | 36 | AHF(†)-36-(*)-HX36 | 57 | 114 |
| 48 | 6 | AHF(†)-06-(*)-HX48 | 54 | 108 |
| | 9 | AHF(†)-09-(*)-HX48 | 55½ | 111 |
| | 12 | AHF(†)-12-(*)-HX48 | 57 | 114 |
| | 18 | AHF(†)-18-(*)-HX48 | 60 | 120 |
| | 24 | AHF(†)-24-(*)-HX48 | 63 | 126 |
| | 30 | AHF(†)-30-(*)-HX48 | 66 | 132 |
| | 36 | AHF(†)-36-(*)-HX48 | 69 | 138 |

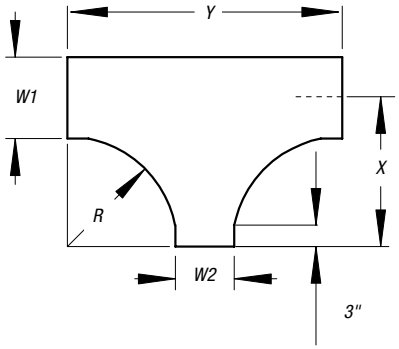
*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number.*

*Includes one pair of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

## Aluminum Tray






### Catalog Numbering System

| AUF | - | 7 | - | 36 | - | 24 | - | L | - | RT | | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width 1 | | Width 2 | | Bottom Style | | Fitting Type | | Nominal Radius |

### Selection Guide

**Tray Widths W1**: 36, 30, 24, 18, 12, 9

**Tray Widths W2**: 30, 24, 18, 12, 9, 6

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"– 7"

### U-Style Horizontal Reducing Tees

| WIDTHS | | | (+) 12" NOMINAL RADIUS | | (+) 24" NOMINAL RADIUS | | (+) 36" NOMINAL RADIUS | | (+) 48" NOMINAL RADIUS | |
|---|---|---|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | X | Y | X | Y | X | Y | X | Y |
| 36 | 30 | AUF-(†)-3630-(*)-RT(+) | 30 | 54 | 42 | 78 | 54 | 102 | 66 | 126 |
| | 24 | AUF-(†)-3624-(*)-RT(+) | 30 | 48 | 42 | 72 | 54 | 96 | 66 | 120 |
| | 18 | AUF-(†)-3618-(*)-RT(+) | 30 | 42 | 42 | 66 | 54 | 90 | 66 | 114 |
| | 12 | AUF-(†)-3612-(*)-RT(+) | 30 | 36 | 42 | 60 | 54 | 84 | 66 | 108 |
| | 9 | AUF-(†)-3609-(*)-RT(+) | 30 | 33 | 42 | 57 | 54 | 81 | 66 | 105 |
| | 6 | AUF-(†)-3606-(*)-RT(+) | 30 | 30 | 42 | 54 | 54 | 78 | 66 | 102 |
| 30 | 24 | AUF-(†)-3024-(*)-RT(+) | 27 | 48 | 39 | 72 | 51 | 96 | 63 | 120 |
| | 18 | AUF-(†)-3018-(*)-RT(+) | 27 | 42 | 39 | 66 | 51 | 90 | 63 | 114 |
| | 12 | AUF-(†)-3012-(*)-RT(+) | 27 | 36 | 39 | 60 | 51 | 84 | 63 | 108 |
| | 9 | AUF-(†)-3009-(*)-RT(+) | 27 | 33 | 39 | 57 | 51 | 81 | 63 | 105 |
| | 6 | AUF-(†)-3006-(*)-RT(+) | 27 | 30 | 39 | 54 | 51 | 78 | 63 | 102 |
| 24 | 18 | AUF-(†)-2418-(*)-RT(+) | 24 | 42 | 36 | 66 | 48 | 90 | 60 | 114 |
| | 12 | AUF-(†)-2412-(*)-RT(+) | 24 | 36 | 36 | 60 | 48 | 84 | 60 | 108 |
| | 9 | AUF-(†)-2409-(*)-RT(+) | 24 | 33 | 36 | 57 | 48 | 81 | 60 | 105 |
| | 6 | AUF-(†)-2406-(*)-RT(+) | 24 | 30 | 36 | 54 | 48 | 78 | 60 | 102 |
| 18 | 12 | AUF-(†)-1812-(*)-RT(+) | 21 | 36 | 33 | 60 | 45 | 84 | 57 | 108 |
| | 9 | AUF-(†)-1809-(*)-RT(+) | 21 | 33 | 33 | 57 | 45 | 81 | 57 | 105 |
| | 6 | AUF-(†)-1806-(*)-RT(+) | 21 | 30 | 33 | 54 | 45 | 78 | 57 | 102 |
| 12 | 9 | AUF-(†)-1209-(*)-RT(+) | 18 | 33 | 30 | 57 | 42 | 81 | 54 | 105 |
| | 6 | AUF-(†)-1206-(*)-RT(+) | 18 | 30 | 30 | 54 | 42 | 78 | 54 | 102 |
| 9 | 6 | AUF-(†)-0906-(*)-RT(+) | 16½ | 30 | 28½ | 54 | 40½ | 78 | 52½ | 102 |

*(†) Insert side rail depth. (*) Insert bottom style. (+) Insert radius (12"–48") to complete Catalog Number.*

*Includes two pairs of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*



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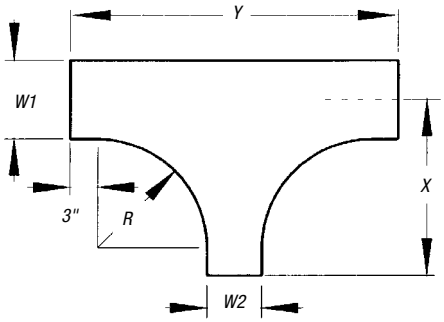
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Tel: 888.862.3289

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# Aluminum Tray






## Catalog Numbering System

| AHF | - | 7 | - | 36 | - | 24 | - | L | - | RT | | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width 1 | | Width 2 | | Bottom Style | | Fitting Type | | Nominal Radius |

## Selection Guide

**Tray Widths W1**: 36, 30, 24, 18, 12, 9

**Tray Widths W2**: 30, 24, 18, 12, 9, 6

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"– 7"

## H-Style Horizontal Reducing Tees

| WIDTHS | | | (+) 12" NOMINAL RADIUS | | (+) 24" NOMINAL RADIUS | | (+) 36" NOMINAL RADIUS | | (+) 48" NOMINAL RADIUS | |
|---|---|---|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | X | Y | X | Y | X | Y | X | Y |
| 36 | 30 | AHF-(†)-3630-(*)-RT(+) | 33 | 60 | 45 | 84 | 57 | 108 | 69 | 132 |
| | 24 | AHF-(†)-3624-(*)-RT(+) | 33 | 54 | 45 | 78 | 57 | 102 | 69 | 126 |
| | 18 | AHF-(†)-3618-(*)-RT(+) | 33 | 48 | 45 | 72 | 57 | 96 | 69 | 120 |
| | 12 | AHF-(†)-3612-(*)-RT(+) | 33 | 42 | 45 | 66 | 57 | 90 | 69 | 114 |
| | 9 | AHF-(†)-3609-(*)-RT(+) | 33 | 39 | 45 | 63 | 57 | 87 | 69 | 111 |
| | 6 | AHF-(†)-3606-(*)-RT(+) | 33 | 36 | 45 | 60 | 57 | 84 | 69 | 108 |
| 30 | 24 | AHF-(†)-3024-(*)-RT(+) | 30 | 54 | 42 | 78 | 54 | 102 | 66 | 126 |
| | 18 | AHF-(†)-3018-(*)-RT(+) | 30 | 48 | 42 | 72 | 54 | 96 | 66 | 120 |
| | 12 | AHF-(†)-3012-(*)-RT(+) | 30 | 42 | 42 | 66 | 54 | 90 | 66 | 114 |
| | 9 | AHF-(†)-3009-(*)-RT(+) | 30 | 39 | 42 | 63 | 54 | 87 | 66 | 111 |
| | 6 | AHF-(†)-3006-(*)-RT(+) | 30 | 36 | 42 | 60 | 54 | 84 | 66 | 108 |
| 24 | 18 | AHF-(†)-2418-(*)-RT(+) | 27 | 48 | 39 | 72 | 51 | 96 | 63 | 120 |
| | 12 | AHF-(†)-2412-(*)-RT(+) | 27 | 42 | 39 | 66 | 51 | 90 | 63 | 114 |
| | 9 | AHF(†)-2409-(*)-RT(+) | 27 | 39 | 39 | 63 | 51 | 87 | 63 | 111 |
| | 6 | AHF-(†)-2406-(*)-RT(+) | 27 | 36 | 39 | 60 | 51 | 84 | 63 | 108 |
| 18 | 12 | AHF-(†)-1812-(*)-RT(+) | 24 | 42 | 36 | 66 | 48 | 90 | 60 | 114 |
| | 9 | AHF-(†)-1809-(*)-RT(+) | 24 | 39 | 36 | 63 | 48 | 87 | 60 | 111 |
| | 6 | AHF-(†)-1806-(*)-RT(+) | 24 | 36 | 36 | 60 | 48 | 84 | 60 | 108 |
| 12 | 9 | AHF-(†)-1209-(*)-RT(+) | 21 | 39 | 33 | 63 | 45 | 87 | 57 | 111 |
| | 6 | AHF-(†)-1206-(*)-RT(+) | 21 | 36 | 33 | 60 | 45 | 84 | 57 | 108 |
| 9 | 6 | AHF-(†)-0906-(*)-RT(+) | 19½ | 36 | 31½ | 60 | 43½ | 84 | 55½ | 108 |

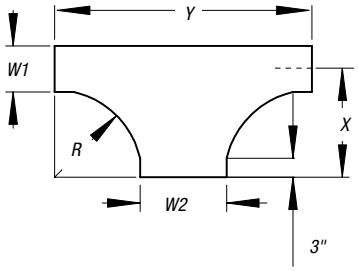
*(†) Insert side rail depth. (*) Insert bottom style. (+) Insert radius (12"–48") to complete Catalog Number.*

*Includes two pairs of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

## Aluminum Tray






### Catalog Numbering System

| AUF | - | 4 | - | 06 | - | 09 | - | L | - | ET | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width 1 | | Width 2 | | Bottom Style | | Fitting Type | Nominal Radius |

### Selection Guide

**Tray Widths W1**: 30, 24, 18, 12, 9, 6

**Tray Widths W2**: 36, 30, 24, 18, 12, 9

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"– 7"

### U-Style Horizontal Expanding Tees

| WIDTHS | | | (+) 12" NOMINAL RADIUS | | (+) 24" NOMINAL RADIUS | | (+) 36" NOMINAL RADIUS | | (+) 48" NOMINAL RADIUS | |
|---|---|---|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | X | Y | X | Y | X | Y | X | Y |
| 30 | 36 | AUF(†)-3036-(*)-ET(+) | 27 | 60 | 39 | 84 | 51 | 108 | 63 | 132 |
| 24 | 30 | AUF(†)-2430-(*)-ET(+) | 24 | 54 | 36 | 78 | 48 | 102 | 60 | 126 |
| | 36 | AUF(†)-2436-(*)-ET(+) | 24 | 60 | 36 | 84 | 48 | 108 | 60 | 132 |
| 18 | 24 | AUF(†)-1824-(*)-ET(+) | 21 | 48 | 33 | 72 | 45 | 96 | 57 | 120 |
| | 30 | AUF(†)-1830-(*)-ET(+) | 21 | 54 | 33 | 78 | 45 | 102 | 57 | 126 |
| | 36 | AUF(†)-1836-(*)-ET(+) | 21 | 60 | 33 | 84 | 45 | 108 | 57 | 132 |
| 12 | 18 | AUF(†)-1218-(*)-ET(+) | 18 | 42 | 30 | 66 | 42 | 90 | 54 | 114 |
| | 24 | AUF(†)-1224-(*)-ET(+) | 18 | 48 | 30 | 72 | 42 | 96 | 54 | 120 |
| | 30 | AUF(†)-1230-(*)-ET(+) | 18 | 54 | 30 | 78 | 42 | 102 | 54 | 126 |
| | 36 | AUF(†)-1236-(*)-ET(+) | 18 | 60 | 30 | 84 | 42 | 108 | 54 | 132 |
| 9 | 12 | AUF(†)-0912-(*)-ET(+) | 16½ | 36 | 28½ | 60 | 40½ | 84 | 52½ | 108 |
| | 18 | AUF(†)-0918-(*)-ET(+) | 16½ | 42 | 28½ | 66 | 40½ | 90 | 52½ | 114 |
| | 24 | AUF(†)-0924-(*)-ET(+) | 16½ | 48 | 28½ | 72 | 40½ | 96 | 52½ | 120 |
| | 30 | AUF(†)-0930-(*)-ET(+) | 16½ | 54 | 28½ | 78 | 40½ | 102 | 52½ | 126 |
| | 36 | AUF(†)-0936-(*)-ET(+) | 16½ | 60 | 28½ | 84 | 40½ | 108 | 52½ | 132 |
| 6 | 9 | AUF(†)-0609-(*)-ET(+) | 15 | 33 | 27 | 57 | 39 | 81 | 51 | 105 |
| | 12 | AUF(†)-0612-(*)-ET(+) | 15 | 36 | 27 | 60 | 39 | 84 | 51 | 108 |
| | 18 | AUF(†)-0618-(*)-ET(+) | 15 | 42 | 27 | 66 | 39 | 90 | 51 | 114 |
| | 24 | AUF(†)-0624-(*)-ET(+) | 15 | 48 | 27 | 72 | 39 | 96 | 51 | 120 |
| | 30 | AUF(†)-0630-(*)-ET(+) | 15 | 54 | 27 | 78 | 39 | 102 | 51 | 126 |
| | 36 | AUF(†)-0636-(*)-ET(+) | 15 | 60 | 27 | 84 | 39 | 108 | 51 | 132 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert radius (12"–48").*

*Includes two pairs of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*



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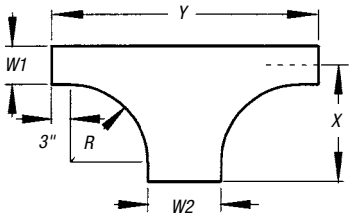
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800.816.7809
Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

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# Aluminum Tray






## Catalog Numbering System

| AHF | - | 4 | - | 06 | - | 09 | - | L | - | ET | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width 1 | | Width 2 | | Bottom Style | | Fitting Type | Nominal Radius |

## Selection Guide

**Tray Widths W1**: 30, 24, 18, 12, 9, 6

**Tray Widths W2**: 36, 30, 24, 18, 12, 9

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"– 7"

### H-Style Horizontal Expanding Tees

| WIDTHS | | | (+) 12" NOMINAL RADIUS | | (+) 24" NOMINAL RADIUS | | (+) 36" NOMINAL RADIUS | | (+) 48" NOMINAL RADIUS | |
|---|---|---|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | X | Y | X | Y | X | Y | X | Y |
| 30 | 36 | **AHF(†)-3036-(*)-ET(+)** | 30 | 66 | 42 | 90 | 54 | 114 | 66 | 138 |
| 24 | 30 | **AHF(†)-2430-(*)-ET(+)** | 27 | 60 | 39 | 84 | 51 | 108 | 63 | 132 |
| | 36 | **AHF(†)-2436-(*)-ET(+)** | 27 | 66 | 39 | 90 | 51 | 114 | 63 | 138 |
| 18 | 24 | **AHF(†)-1824-(*)-ET(+)** | 24 | 54 | 36 | 78 | 48 | 102 | 60 | 126 |
| | 30 | **AHF(†)-1830-(*)-ET(+)** | 24 | 60 | 36 | 84 | 48 | 108 | 60 | 132 |
| | 36 | **AHF(†)-1836-(*)-ET(+)** | 24 | 66 | 36 | 90 | 48 | 114 | 60 | 138 |
| 12 | 18 | **AHF(†)-1218-(*)-ET(+)** | 21 | 48 | 33 | 72 | 45 | 96 | 57 | 120 |
| | 24 | **AHF(†)-1224-(*)-ET(+)** | 21 | 54 | 33 | 78 | 45 | 102 | 57 | 126 |
| | 30 | **AHF(†)-1230-(*)-ET(+)** | 21 | 60 | 33 | 84 | 45 | 108 | 57 | 132 |
| | 36 | **AHF(†)-1236-(*)-ET(+)** | 21 | 66 | 33 | 90 | 45 | 114 | 57 | 138 |
| 9 | 12 | **AHF(†)-0912-(*)-ET(+)** | 19½ | 42 | 31½ | 66 | 43½ | 90 | 55½ | 114 |
| | 18 | **AHF(†)-0918-(*)-ET(+)** | 19½ | 48 | 31½ | 72 | 43½ | 96 | 55½ | 120 |
| | 24 | **AHF(†)-0924-(*)-ET(+)** | 19½ | 54 | 31½ | 78 | 43½ | 102 | 55½ | 126 |
| | 30 | **AHF(†)-0930-(*)-ET(+)** | 19½ | 60 | 31½ | 84 | 43½ | 108 | 55½ | 132 |
| | 36 | **AHF(†)-0936-(*)-ET(+)** | 19½ | 66 | 31½ | 90 | 43½ | 114 | 55½ | 138 |
| 6 | 9 | **AHF(†)-0609-(*)-ET(+)** | 18 | 39 | 30 | 63 | 42 | 87 | 54 | 111 |
| | 12 | **AHF(†)-0612-(*)-ET(+)** | 18 | 42 | 30 | 66 | 42 | 90 | 54 | 114 |
| | 18 | **AHF(†)-0618-(*)-ET(+)** | 18 | 48 | 30 | 72 | 42 | 96 | 54 | 120 |
| | 24 | **AHF(†)-0624-(*)-ET(+)** | 18 | 54 | 30 | 78 | 42 | 102 | 54 | 126 |
| | 30 | **AHF(†)-0630-(*)-ET(+)** | 18 | 60 | 30 | 84 | 42 | 108 | 54 | 132 |
| | 36 | **AHF(†)-0636-(*)-ET(+)** | 18 | 66 | 30 | 90 | 42 | 114 | 54 | 138 |

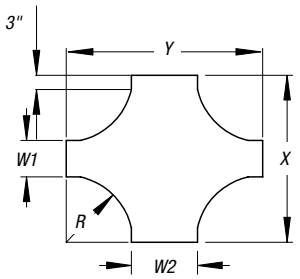
*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert radius (12"–48").*

*Includes two pairs of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

## Aluminum Tray






### Catalog Numbering System

| AUF | - | 5 | - | 18 | - | 24 | - | L | - | EX | 36 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width 1 | | Width 2 | | Bottom Style | | Fitting Type | Nominal Radius |

### Selection Guide

**Tray Widths W1**: 30, 24, 18, 12, 9, 6

**Tray Widths W2**: 36, 30, 24, 18, 12, 9

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"– 7"

### U-Style Horizontal Expanding Crosses

| WIDTHS | | | (+) 12" NOMINAL RADIUS | | (+) 24" NOMINAL RADIUS | | (+) 36" NOMINAL RADIUS | | (+) 48" NOMINAL RADIUS | |
|---|---|---|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | X | Y | X | Y | X | Y | X | Y |
| 30 | 36 | AUF(†)-3036-(*)-EX(+) | 54 | 60 | 78 | 84 | 102 | 108 | 126 | 132 |
| 24 | 30 | AUF(†)-2430-(*)-EX(+) | 48 | 54 | 72 | 78 | 96 | 102 | 120 | 126 |
| | 36 | AUF(†)-2436-(*)-EX(+) | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 |
| 18 | 24 | AUF(†)-1824-(*)-EX(+) | 42 | 48 | 66 | 72 | 90 | 96 | 114 | 120 |
| | 30 | AUF(†)-1830-(*)-EX(+) | 42 | 54 | 66 | 78 | 90 | 102 | 114 | 126 |
| | 36 | AUF(†)-1836-(*)-EX(+) | 42 | 60 | 66 | 84 | 90 | 108 | 114 | 132 |
| 12 | 18 | AUF(†)-1218-(*)-EX(+) | 36 | 42 | 60 | 66 | 84 | 90 | 108 | 114 |
| | 24 | AUF(†)-1224-(*)-EX(+) | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
| | 30 | AUF(†)-1230-(*)-EX(+) | 36 | 54 | 60 | 78 | 84 | 102 | 108 | 126 |
| | 36 | AUF(†)-1236-(*)-EX(+) | 36 | 60 | 60 | 84 | 84 | 108 | 108 | 132 |
| 9 | 12 | AUF(†)-0912-(*)-EX(+) | 33 | 36 | 57 | 60 | 81 | 84 | 105 | 108 |
| | 18 | AUF(†)-0918-(*)-EX(+) | 33 | 42 | 57 | 66 | 81 | 90 | 105 | 114 |
| | 24 | AUF(†)-0924-(*)-EX(+) | 33 | 48 | 57 | 72 | 81 | 96 | 105 | 120 |
| | 30 | AUF(†)-0930-(*)-EX(+) | 33 | 54 | 57 | 78 | 81 | 102 | 105 | 126 |
| | 36 | AUF(†)-0936-(*)-EX(+) | 33 | 60 | 57 | 84 | 81 | 108 | 105 | 132 |
| 6 | 9 | AUF(†)-0609-(*)-EX(+) | 30 | 33 | 54 | 57 | 78 | 81 | 102 | 105 |
| | 12 | AUF(†)-0612-(*)-EX(+) | 30 | 36 | 54 | 60 | 78 | 84 | 102 | 108 |
| | 18 | AUF(†)-0618-(*)-EX(+) | 30 | 42 | 54 | 66 | 78 | 90 | 102 | 114 |
| | 24 | AUF(†)-0624-(*)-EX(+) | 30 | 48 | 54 | 72 | 78 | 96 | 102 | 120 |
| | 30 | AUF(†)-0630-(*)-EX(+) | 30 | 54 | 54 | 78 | 78 | 102 | 102 | 126 |
| | 36 | AUF(†)-0636-(*)-EX(+) | 30 | 60 | 54 | 84 | 78 | 108 | 102 | 132 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert radius (12"–48").*

*Includes three pairs of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*



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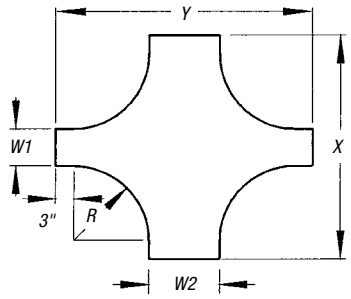
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# Aluminum Tray






## Catalog Numbering System

| AHF | - | 5 | - | 30 | - | 36 | - | L | - | EX | 36 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width 1 | | Width 2 | | Bottom Style | | Fitting Type | Nominal Radius |

## Selection Guide

**Tray Widths W1**: 30, 24, 18, 12, 9, 6

**Tray Widths W2**: 36, 30, 24, 18, 12, 9

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"– 7"

### H-Style Horizontal Expanding Crosses

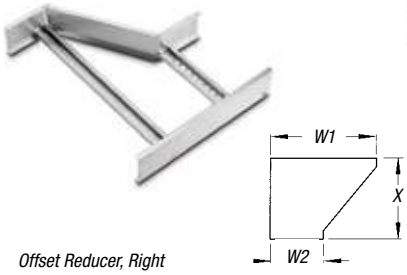
| WIDTHS | | | (+) 12" NOMINAL RADIUS | | (+) 24" NOMINAL RADIUS | | (+) 36" NOMINAL RADIUS | | (+) 48" NOMINAL RADIUS | |
|---|---|---|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | X | Y | X | Y | X | Y | X | Y |
| 30 | 36 | AHF(†)-3036-(*)-EX(+) | 60 | 66 | 84 | 90 | 108 | 114 | 132 | 138 |
| 24 | 30 | AHF(†)-2430-(*)-EX(+) | 54 | 60 | 78 | 84 | 102 | 108 | 126 | 132 |
| | 36 | AHF(†)-2436-(*)-EX(+) | 54 | 66 | 78 | 90 | 102 | 114 | 126 | 138 |
| 18 | 24 | AHF(†)-1824-(*)-EX(+) | 48 | 54 | 72 | 78 | 96 | 102 | 120 | 126 |
| | 30 | AHF(†)-1830-(*)-EX(+) | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 |
| | 36 | AHF(†)-1836-(*)-EX(+) | 48 | 66 | 72 | 90 | 96 | 114 | 120 | 138 |
| 12 | 18 | AHF(†)-1218-(*)-EX(+) | 42 | 48 | 66 | 72 | 90 | 96 | 114 | 120 |
| | 24 | AHF(†)-1224-(*)-EX(+) | 42 | 54 | 66 | 78 | 90 | 102 | 114 | 126 |
| | 30 | AHF(†)-1230-(*)-EX(+) | 42 | 60 | 66 | 84 | 90 | 108 | 114 | 132 |
| | 36 | AHF(†)-1236-(*)-EX(+) | 42 | 66 | 66 | 90 | 90 | 114 | 114 | 138 |
| 9 | 12 | AHF(†)-0912-(*)-EX(+) | 39 | 42 | 63 | 66 | 87 | 90 | 111 | 114 |
| | 18 | AHF(†)-0918-(*)-EX(+) | 39 | 48 | 63 | 72 | 87 | 96 | 111 | 120 |
| | 24 | AHF(†)-0924-(*)-EX(+) | 39 | 54 | 63 | 78 | 87 | 102 | 111 | 126 |
| | 30 | AHF(†)-0930-(*)-EX(+) | 39 | 60 | 63 | 84 | 87 | 108 | 111 | 132 |
| | 36 | AHF(†)-0936-(*)-EX(+) | 39 | 66 | 63 | 90 | 87 | 114 | 111 | 138 |
| 6 | 9 | AHF(†)-0609-(*)-EX(+) | 36 | 39 | 60 | 63 | 84 | 87 | 108 | 111 |
| | 12 | AHF(†)-0612-(*)-EX(+) | 36 | 42 | 60 | 66 | 84 | 90 | 108 | 114 |
| | 18 | AHF(†)-0618-(*)-EX(+) | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
| | 24 | AHF(†)-0624-(*)-EX(+) | 36 | 54 | 60 | 78 | 84 | 102 | 108 | 126 |
| | 30 | AHF(†)-0630-(*)-EX(+) | 36 | 60 | 60 | 84 | 84 | 108 | 108 | 132 |
| | 36 | AHF(†)-0636-(*)-EX(+) | 36 | 66 | 60 | 90 | 84 | 114 | 108 | 138 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert radius (12"–48").*

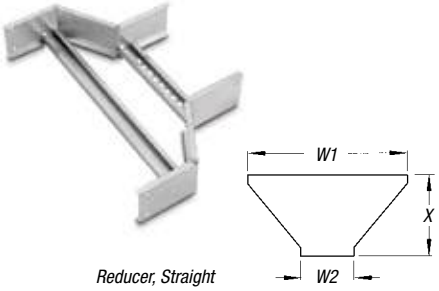
*Includes three pairs of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

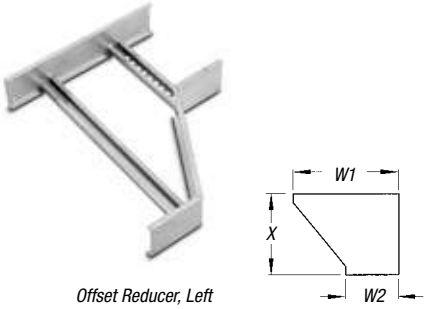
## Aluminum Tray




*Offset Reducer, Right*




*Reducer, Straight*




*Offset Reducer, Left*

### Catalog Numbering System

| AUF | - | 6 | - | 36 | - | 18 | - | L | - | HLR |
|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width 1 | | Width 2 | | Bottom Style | | Fitting Type |

### Selection Guide

**Tray Widths W1**: 36, 30, 24, 18, 12, 9

**Tray Widths W2**: 30, 24, 18, 12, 9, 6

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 4"–7"

### U-Style Horizontal Reducers

| WIDTHS | | LH REDUCER | | STRAIGHT REDUCER (CONCENTRIC) | | RH REDUCER | |
|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | DIM. X | CAT. NO. | DIM. X | CAT. NO. | DIM. X |
| 36 | 30 | AUF(†)-36-30-(*)-HLR | 15 7/16 | AUF(†)-36-30-(*)-HSR | 13 3/4 | AUF(†)-36-30-(*)-HRR | 15 7/16 |
| | 24 | AUF(†)-36-24-(*)-HLR | 18 15/16 | AUF(†)-36-24-(*)-HSR | 15 7/16 | AUF(†)-36-24-(*)-HRR | 18 15/16 |
| | 18 | AUF(†)-36-18-(*)-HLR | 22 3/8 | AUF(†)-36-18-(*)-HSR | 17 3/8 | AUF(†)-36-18-(*)-HRR | 22 3/8 |
| | 12 | AUF(†)-36-12-(*)-HLR | 25 7/8 | AUF(†)-36-12-(*)-HSR | 18 5/16 | AUF(†)-36-12-(*)-HRR | 25 7/8 |
| | 9 | AUF(†)-36-09-(*)-HLR | 27 9/16 | AUF(†)-36-09-(*)-HSR | 19 13/16 | AUF(†)-36-09-(*)-HRR | 27 9/16 |
| | 6 | AUF(†)-36-06-(*)-HLR | 29 5/16 | AUF(†)-36-06-(*)-HSR | 20 11/16 | AUF(†)-36-06-(*)-HRR | 29 5/16 |
| 30 | 24 | AUF(†)-30-24-(*)-HLR | 15 7/16 | AUF(†)-30-24-(*)-HSR | 13 3/4 | AUF(†)-30-24-(*)-HRR | 15 7/16 |
| | 18 | AUF(†)-30-18-(*)-HLR | 18 15/16 | AUF(†)-30-18-(*)-HSR | 15 7/16 | AUF(†)-30-18-(*)-HRR | 18 15/16 |
| | 12 | AUF(†)-30-12-(*)-HLR | 22 3/8 | AUF(†)-30-12-(*)-HSR | 17 3/16 | AUF(†)-30-12-(*)-HRR | 22 3/8 |
| | 9 | AUF(†)-30-09-(*)-HLR | 24 1/8 | AUF(†)-30-09-(*)-HSR | 18 1/16 | AUF(†)-30-09-(*)-HRR | 24 1/8 |
| | 6 | AUF(†)-30-06-(*)-HLR | 25 7/8 | AUF(†)-30-06-(*)-HSR | 18 15/16 | AUF(†)-30-06-(*)-HRR | 25 7/8 |
| 24 | 18 | AUF(†)-24-18-(*)-HLR | 15 7/16 | AUF(†)-24-18-(*)-HSR | 13 3/4 | AUF(†)-24-18-(*)-HRR | 15 7/16 |
| | 12 | AUF(†)-24-12-(*)-HLR | 18 15/16 | AUF(†)-24-12-(*)-HSR | 15 7/16 | AUF(†)-24-12-(*)-HRR | 18 15/16 |
| | 9 | AUF(†)-24-09-(*)-HLR | 20 11/16 | AUF(†)-24-09-(*)-HSR | 16 5/16 | AUF(†)-24-09-(*)-HRR | 20 11/16 |
| | 6 | AUF(†)-24-06-(*)-HLR | 22 3/8 | AUF(†)-24-06-(*)-HSR | 17 3/16 | AUF(†)-24-06-(*)-HRR | 22 3/8 |
| 18 | 12 | AUF(†)-18-12-(*)-HLR | 15 7/16 | AUF(†)-18-12-(*)-HSR | 13 3/4 | AUF(†)-18-12-(*)-HRR | 15 7/16 |
| | 9 | AUF(†)-18-09-(*)-HLR | 17 3/16 | AUF(†)-18-09-(*)-HSR | 14 5/8 | AUF(†)-18-09-(*)-HRR | 17 3/16 |
| | 6 | AUF(†)-18-06-(*)-HLR | 18 15/16 | AUF(†)-18-06-(*)-HSR | 15 7/16 | AUF(†)-18-06-(*)-HRR | 18 15/16 |
| 12 | 9 | AUF(†)-12-09-(*)-HLR | 13 3/4 | AUF(†)-12-09-(*)-HSR | 12 7/8 | AUF(†)-12-09-(*)-HRR | 13 3/4 |
| | 6 | AUF(†)-12-06-(*)-HLR | 15 7/16 | AUF(†)-12-06-(*)-HSR | 13 3/4 | AUF(†)-12-06-(*)-HRR | 15 7/16 |
| 9 | 6 | AUF(†)-09-06-(*)-HLR | 13 3/4 | AUF(†)-09-06-(*)-HSR | 12 7/8 | AUF(†)-09-06-(*)-HRR | 13 3/4 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number.*

*Includes one pair of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*



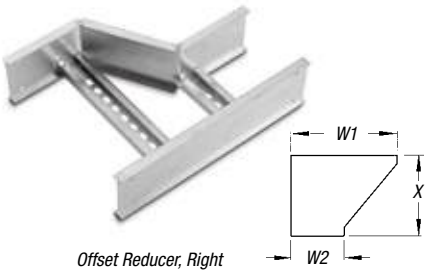
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800.816.7809
Fax: 901.252.1354

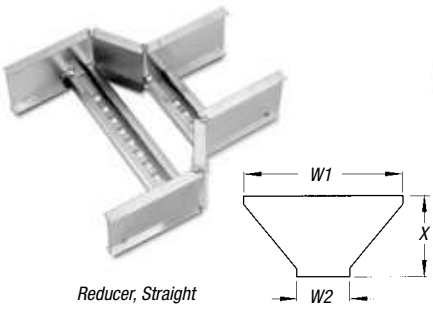
**Technical Services**
Tel: 888.862.3289

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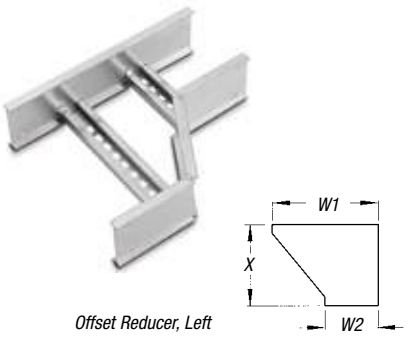
# Aluminum Tray




*Offset Reducer, Right*




*Reducer, Straight*




*Offset Reducer, Left*

## Catalog Numbering System

| AHF | - | 6 | - | 36 | - | 18 | - | L | - | HLR |
|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width 1 | | Width 2 | | Bottom Style | | Fitting Type |

## Selection Guide

**Tray Widths W1**: 36, 30, 24, 18, 12, 9

**Tray Widths W2**: 30, 24, 18, 12, 9, 6

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 4"–7"

### H-Style Horizontal Reducers

| WIDTHS | | LH REDUCER | | STRAIGHT REDUCER (CONCENTRIC) | | RH REDUCER | |
|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | DIM. X | CAT. NO. | DIM. X | CAT. NO. | DIM. X |
| 36 | 30 | AHF(†)-36-30-(*)-HLR | 15 7/16 | AHF(†)-36-30-(*)-HSR | 13 3/4 | AHF(†)-36-30-(*)-HRR | 15 7/16 |
| | 24 | AHF(†)-36-24-(*)-HLR | 18 15/16 | AHF(†)-36-24-(*)-HSR | 15 7/16 | AHF(†)-36-24-(*)-HRR | 18 15/16 |
| | 18 | AHF(†)-36-18-(*)-HLR | 22 3/8 | AHF(†)-36-18-(*)-HSR | 17 3/8 | AHF(†)-36-18-(*)-HRR | 22 3/8 |
| | 12 | AHF(†)-36-12-(*)-HLR | 25 7/8 | AHF(†)-36-12-(*)-HSR | 18 5/16 | AHF(†)-36-12-(*)-HRR | 25 7/8 |
| | 9 | AHF(†)-36-09-(*)-HLR | 27 9/16 | AHF(†)-36-09-(*)-HSR | 19 13/16 | AHF(†)-36-09-(*)-HRR | 27 9/16 |
| | 6 | AHF(†)-36-06-(*)-HLR | 29 5/16 | AHF(†)-36-06-(*)-HSR | 20 11/16 | AHF(†)-36-06-(*)-HRR | 29 5/16 |
| 30 | 24 | AHF(†)-30-24-(*)-HLR | 15 7/16 | AHF(†)-30-24-(*)-HSR | 13 3/4 | AHF(†)-30-24-(*)-HRR | 15 7/16 |
| | 18 | AHF(†)-30-18-(*)-HLR | 18 15/16 | AHF(†)-30-18-(*)-HSR | 15 7/16 | AHF(†)-30-18-(*)-HRR | 18 15/16 |
| | 12 | AHF(†)-30-12-(*)-HLR | 22 3/8 | AHF(†)-30-12-(*)-HSR | 17 3/16 | AHF(†)-30-12-(*)-HRR | 22 3/8 |
| | 9 | AHF(†)-30-09-(*)-HLR | 24 1/8 | AHF(†)-30-09-(*)-HSR | 18 1/16 | AHF(†)-30-09-(*)-HRR | 24 1/8 |
| | 6 | AHF(†)-30-06-(*)-HLR | 25 7/8 | AHF(†)-30-06-(*)-HSR | 18 15/16 | AHF(†)-30-06-(*)-HRR | 25 7/8 |
| 24 | 18 | AHF(†)-24-18-(*)-HLR | 15 7/16 | AHF(†)-24-18-(*)-HSR | 13 3/4 | AHF(†)-24-18-(*)-HRR | 15 7/16 |
| | 12 | AHF(†)-24-12-(*)-HLR | 18 15/16 | AHF(†)-24-12-(*)-HSR | 15 7/16 | AHF(†)-24-12-(*)-HRR | 18 15/16 |
| | 9 | AHF(†)-24-09-(*)-HLR | 20 11/16 | AHF(†)-24-09-(*)-HSR | 16 5/16 | AHF(†)-24-09-(*)-HRR | 20 11/16 |
| | 6 | AHF(†)-24-06-(*)-HLR | 22 3/8 | AHF(†)-24-06-(*)-HSR | 17 3/16 | AHF(†)-24-06-(*)-HRR | 22 3/8 |
| 18 | 12 | AHF(†)-18-12-(*)-HLR | 15 7/16 | AHF(†)-18-12-(*)-HSR | 13 3/4 | AHF(†)-18-12-(*)-HRR | 15 7/16 |
| | 9 | AHF(†)-18-09-(*)-HLR | 17 3/16 | AHF(†)-18-09-(*)-HSR | 14 5/8 | AHF(†)-18-09-(*)-HRR | 17 3/16 |
| | 6 | AHF(†)-18-06-(*)-HLR | 18 15/16 | AHF(†)-18-06-(*)-HSR | 15 7/16 | AHF(†)-18-06-(*)-HRR | 18 15/16 |
| 12 | 9 | AHF(†)-12-09-(*)-HLR | 13 3/4 | AHF(†)-12-09-(*)-HSR | 12 7/8 | AHF(†)-12-09-(*)-HRR | 13 3/4 |
| | 6 | AHF(†)-12-06-(*)-HLR | 15 7/16 | AHF(†)-12-06-(*)-HSR | 13 3/4 | AHF(†)-12-06-(*)-HRR | 15 7/16 |
| 9 | 6 | AHF(†)-09-06-(*)-HLR | 13 3/4 | AHF(†)-09-06-(*)-HSR | 12 7/8 | AHF(†)-09-06-(*)-HRR | 13 3/4 |

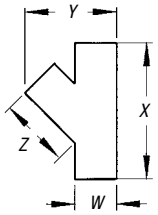
*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number.*

*Includes one pair of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

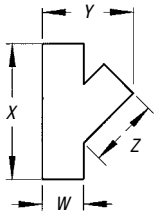
## Aluminum Tray






*Left-Hand Wye*






*Right-Hand Wye*

### Catalog Numbering System

| AUF | - | 6 | - | 36 | - | L | - | HYL |
|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width 1 | | Bottom Style | | Fitting Type |

### Selection Guide

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 4"– 7"

### U-Style 45° Horizontal Wyes

| WIDTH | LEFT HAND WYE CAT. NO. | RIGHT HAND WYE CAT. NO. | DIMENSIONS X | Y | Z |
|---|---|---|---|---|---|
| 6 | **AUF-(†)-06-(*)-HYL** | **AUF-(†)-06-(*)-HYR** | 18 5/16 | 14 13/16 | 12 7/16 |
| 9 | **AUF-(†)-09-(*)-HYL** | **AUF-(†)-09-(*)-HYR** | 22 1/2 | 19 15/16 | 15 7/16 |
| 12 | **AUF-(†)-12-(*)-HYL** | **AUF-(†)-12-(*)-HYR** | 26 3/4 | 25 | 18 7/16 |
| 18 | **AUF-(†)-18-(*)-HYL** | **AUF-(†)-18-(*)-HYR** | 35 1/4 | 35 1/4 | 24 7/16 |
| 24 | **AUF-(†)-24-(*)-HYL** | **AUF-(†)-24-(*)-HYR** | 43 1/2 | 45 1/2 | 30 7/16 |
| 30 | **AUF-(†)-30-(*)-HYL** | **AUF-(†)-30-(*)-HYR** | 52 1/4 | 55 3/4 | 36 7/16 |
| 36 | **AUF-(†)-36-(*)-HYL** | **AUF-(†)-36-(*)-HYR** | 60 11/16 | 66 | 42 7/16 |

*(†) Insert side rail depth.*

*(*) Insert bottom style to complete Catalog Number.*

*Includes two pairs of splice plates with hardware.*



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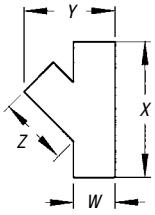
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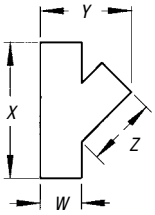
## Aluminum Tray






*Left-Hand Wye*






*Right-Hand Wye*

### Catalog Numbering System

| AHF | - | 6 | - | 36 | - | L | - | HYL |
|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width 1 | | Bottom Style | | Fitting Type |

### Selection Guide

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 4"– 7"

### H-Style 45° Horizontal Wyes

| WIDTH | LEFT HAND WYE CAT. NO. | RIGHT HAND WYE CAT. NO. | DIMENSIONS X | Y | Z |
|---|---|---|---|---|---|
| 6 | **AHF-(†)-06-(*)-HYL** | **AHF-(†)-06-(*)-HYR** | 18 5/16 | 14 13/16 | 12 7/16 |
| 9 | **AHF-(†)-09-(*)-HYL** | **AHF-(†)-09-(*)-HYR** | 22 1/2 | 19 15/16 | 15 7/16 |
| 12 | **AHF-(†)-12-(*)-HYL** | **AHF-(†)-12-(*)-HYR** | 26 3/4 | 25 | 18 7/16 |
| 18 | **AHF-(†)-18-(*)-HYL** | **AHF-(†)-18-(*)-HYR** | 35 1/4 | 35 1/4 | 24 7/16 |
| 24 | **AHF-(†)-24-(*)-HYL** | **AHF-(†)-24-(*)-HYR** | 43 1/2 | 45 1/2 | 30 7/16 |
| 30 | **AHF-(†)-30-(*)-HYL** | **AHF-(†)-30-(*)-HYR** | 52 1/4 | 55 3/4 | 36 7/16 |
| 36 | **AHF-(†)-36-(*)-HYL** | **AHF-(†)-36-(*)-HYR** | 60 11/16 | 66 | 42 7/16 |

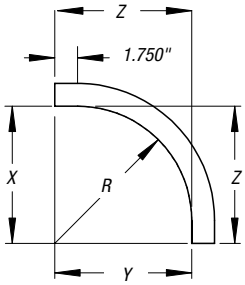
*(†) Insert side rail depth.*

*(*) Insert bottom style to complete Catalog Number.*

*Includes two pairs of splice plates with hardware.*

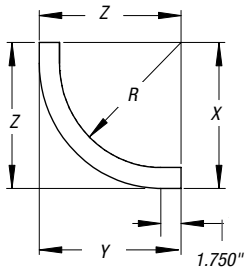
## Aluminum Tray






Outside Bend






Inside Bend

### Catalog Numbering System

| AUF | - | 7 | - | 30 | - | L | - | VI | 90 | - | 36 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Degree | | Nominal Radius |

### Selection Guide

**Inside Tray Widths:** 6, 9, 12, 18, 24, 30, 36

**Angle:** 90°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"–7"

### U-Style 90° Vertical Bends

| NOMINAL RADIUS | | | (+) VO SIDE RAIL HEIGHT 4"–7" | | | (+) VI SIDE RAIL HEIGHT 4" | | | 5" | | | 6" | | | 7" | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | AUF-(†)-06-(*)-(+)90-12 | 12 | 12 | 12 | 17 15/16 | 17 15/16 | 17 15/16 | 18 13/16 | 18 13/16 | 18 13/16 | 20 | 20 | 20 | 21 | 21 | 21 |
| | 9 | AUF-(†)-09-(*)-(+)90-12 | | | | | | | | | | | | | | | |
| | 12 | AUF-(†)-12-(*)-(+)90-12 | | | | | | | | | | | | | | | |
| | 18 | AUF-(†)-18-(*)-(+)90-12 | | | | | | | | | | | | | | | |
| | 24 | AUF-(†)-24-(*)-(+)90-12 | | | | | | | | | | | | | | | |
| | 30 | AUF-(†)-30-(*)-(+)90-12 | | | | | | | | | | | | | | | |
| | 36 | AUF-(†)-36-(*)-(+)90-12 | | | | | | | | | | | | | | | |
| 24 | 6 | AUF-(†)-06-(*)-(+)90-24 | 24 | 24 | 24 | 29 15/16 | 29 15/16 | 29 15/16 | 30 13/16 | 30 13/16 | 30 13/16 | 32 | 32 | 32 | 33 | 33 | 33 |
| | 9 | AUF-(†)-09-(*)-(+)90-24 | | | | | | | | | | | | | | | |
| | 12 | AUF-(†)-12-(*)-(+)90-24 | | | | | | | | | | | | | | | |
| | 18 | AUF-(†)-18-(*)-(+)90-24 | | | | | | | | | | | | | | | |
| | 24 | AUF-(†)-24-(*)-(+)90-24 | | | | | | | | | | | | | | | |
| | 30 | AUF-(†)-30-(*)-(+)90-24 | | | | | | | | | | | | | | | |
| | 36 | AUF-(†)-36-(*)-(+)90-24 | | | | | | | | | | | | | | | |
| 36 | 6 | AUF-(†)-06-(*)-(+)90-36 | 36 | 36 | 36 | 41 15/16 | 41 15/16 | 41 15/16 | 42 13/16 | 42 13/16 | 42 13/16 | 44 | 44 | 44 | 45 | 45 | 45 |
| | 9 | AUF-(†)-09-(*)-(+)90-36 | | | | | | | | | | | | | | | |
| | 12 | AUF-(†)-12-(*)-(+)90-36 | | | | | | | | | | | | | | | |
| | 18 | AUF-(†)-18-(*)-(+)90-36 | | | | | | | | | | | | | | | |
| | 24 | AUF-(†)-24-(*)-(+)90-36 | | | | | | | | | | | | | | | |
| | 30 | AUF-(†)-30-(*)-(+)90-36 | | | | | | | | | | | | | | | |
| | 36 | AUF-(†)-36-(*)-(+)90-36 | | | | | | | | | | | | | | | |
| 48 | 6 | AUF-(†)-06-(*)-(+)90-48 | 48 | 48 | 48 | 53 15/16 | 53 15/16 | 53 15/16 | 54 13/16 | 54 13/16 | 54 13/16 | 56 | 56 | 56 | 57 | 57 | 57 |
| | 9 | AUF-(†)-09-(*)-(+)90-48 | | | | | | | | | | | | | | | |
| | 12 | AUF-(†)-12-(*)-(+)90-48 | | | | | | | | | | | | | | | |
| | 18 | AUF-(†)-18-(*)-(+)90-48 | | | | | | | | | | | | | | | |
| | 24 | AUF-(†)-24-(*)-(+)90-48 | | | | | | | | | | | | | | | |
| | 30 | AUF-(†)-30-(*)-(+)90-48 | | | | | | | | | | | | | | | |
| | 36 | AUF-(†)-36-(*)-(+)90-48 | | | | | | | | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.*

*Includes one pair of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*



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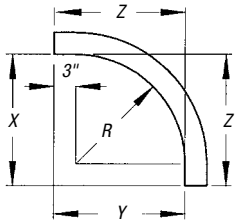
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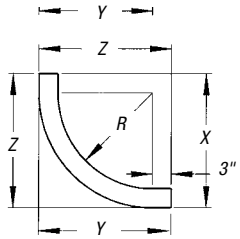
## Aluminum Tray






*Outside Bend*






*Inside Bend*

### Catalog Numbering System

| AHF | - | 7 | - | 30 | - | L | - | VI | 90 | - | 36 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Degree | | Nominal Radius |

### Selection Guide

**Inside Tray Widths:** 6, 9, 12, 18, 24, 30, 36

**Angle:** 90°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"–7"

### H-Style 90° Vertical Bends

| NOMINAL RADIUS | | | (+) VO SIDE RAIL HEIGHT 4"–7" | | | (+) VI SIDE RAIL HEIGHT 4" | | | 5" | | | 6" | | | 7" | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | AHF-(†)-06-(*)-(+)90-12 | 15 | 15 | 15 | 19 3/16 | 19 3/16 | 19 3/16 | 20 1/16 | 20 1/16 | 20 1/16 | 21 1/4 | 21 1/4 | 21 1/4 | 22 1/4 | 22 1/4 | 22 1/4 |
| | 9 | AHF-(†)-09-(*)-(+)90-12 | | | | | | | | | | | | | | | |
| | 12 | AHF-(†)-12-(*)-(+)90-12 | | | | | | | | | | | | | | | |
| | 18 | AHF-(†)-18-(*)-(+)90-12 | | | | | | | | | | | | | | | |
| | 24 | AHF-(†)-24-(*)-(+)90-12 | | | | | | | | | | | | | | | |
| | 30 | AHF-(†)-30-(*)-(+)90-12 | | | | | | | | | | | | | | | |
| | 36 | AHF-(†)-36-(*)-(+)90-12 | | | | | | | | | | | | | | | |
| 24 | 6 | AHF-(†)-06-(*)-(+)90-24 | 27 | 27 | 27 | 31 3/16 | 31 3/16 | 31 3/16 | 32 1/16 | 32 1/16 | 32 1/16 | 33 1/4 | 33 1/4 | 33 1/4 | 34 1/4 | 34 1/4 | 34 1/4 |
| | 9 | AHF-(†)-09-(*)-(+)90-24 | | | | | | | | | | | | | | | |
| | 12 | AHF-(†)-12-(*)-(+)90-24 | | | | | | | | | | | | | | | |
| | 18 | AHF-(†)-18-(*)-(+)90-24 | | | | | | | | | | | | | | | |
| | 24 | AHF-(†)-24-(*)-(+)90-24 | | | | | | | | | | | | | | | |
| | 30 | AHF-(†)-30-(*)-(+)90-24 | | | | | | | | | | | | | | | |
| | 36 | AHF-(†)-36-(*)-(+)90-24 | | | | | | | | | | | | | | | |
| 36 | 6 | AHF-(†)-06-(*)-(+)90-36 | 39 | 39 | 39 | 43 3/16 | 43 3/16 | 43 3/16 | 44 1/16 | 44 1/16 | 44 1/16 | 45 1/4 | 45 1/4 | 45 1/4 | 46 1/4 | 46 1/4 | 46 1/4 |
| | 9 | AHF-(†)-09-(*)-(+)90-36 | | | | | | | | | | | | | | | |
| | 12 | AHF-(†)-12-(*)-(+)90-36 | | | | | | | | | | | | | | | |
| | 18 | AHF-(†)-18-(*)-(+)90-36 | | | | | | | | | | | | | | | |
| | 24 | AHF-(†)-24-(*)-(+)90-36 | | | | | | | | | | | | | | | |
| | 30 | AHF-(†)-30-(*)-(+)90-36 | | | | | | | | | | | | | | | |
| | 36 | AHF-(†)-36-(*)-(+)90-36 | | | | | | | | | | | | | | | |
| 48 | 6 | AHF-(†)-06-(*)-(+)90-48 | 51 | 51 | 51 | 55 3/16 | 55 3/16 | 55 3/16 | 56 1/16 | 56 1/16 | 56 1/16 | 57 1/4 | 57 1/4 | 57 1/4 | 58 1/4 | 58 1/4 | 58 1/4 |
| | 9 | AHF-(†)-09-(*)-(+)90-48 | | | | | | | | | | | | | | | |
| | 12 | AHF-(†)-12-(*)-(+)90-48 | | | | | | | | | | | | | | | |
| | 18 | AHF-(†)-18-(*)-(+)90-48 | | | | | | | | | | | | | | | |
| | 24 | AHF-(†)-24-(*)-(+)90-48 | | | | | | | | | | | | | | | |
| | 30 | AHF-(†)-30-(*)-(+)90-48 | | | | | | | | | | | | | | | |
| | 36 | AHF-(†)-36-(*)-(+)90-48 | | | | | | | | | | | | | | | |

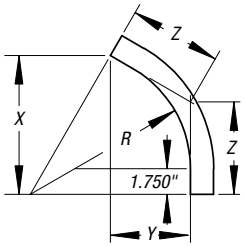
*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.*

*Includes one pair of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

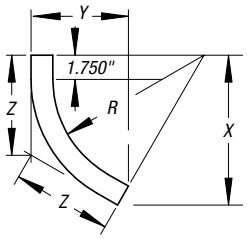
## Aluminum Tray






*Outside Bend*






*Inside Bend*

### Catalog Numbering System

| AUF | - | 7 | - | 36 | - | V | - | VO | 60 | - | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

### Selection Guide

**Inside Tray Widths:** 6, 9, 12, 18, 24, 30, 36

**Angle:** 60°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"–7"

### U-Style 60° Vertical Bends

| NOMINAL RADIUS | | | (+) VO SIDE RAIL HEIGHT 4"–7" | | | (+) VI SIDE RAIL HEIGHT 4" | | | 5" | | | 6" | | | 7" | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | AUF-(¹)-06-(*)-(+)60-12 | 13 | 7½ | 8 11/16 | 16 5/8 | 11 11/16 | 11 1/16 | 17 7/16 | 12 5/8 | 11 5/8 | 18 3/8 | 13 11/16 | 12 1/4 | 19 5/16 | 14 3/4 | 12 7/8 |
| | 9 | AUF-(¹)-09-(*)-(+)60-12 | | | | | | | | | | | | | | | |
| | 12 | AUF-(¹)-12-(*)-(+)60-12 | | | | | | | | | | | | | | | |
| | 18 | AUF-(¹)-18-(*)-(+)60-12 | | | | | | | | | | | | | | | |
| | 24 | AUF-(¹)-24-(*)-(+)60-12 | | | | | | | | | | | | | | | |
| | 30 | AUF-(¹)-30-(*)-(+)60-12 | | | | | | | | | | | | | | | |
| | 36 | AUF-(¹)-36-(*)-(+)60-12 | | | | | | | | | | | | | | | |
| 24 | 6 | AUF-(¹)-06-(*)-(+)60-24 | 23 7/16 | 13½ | 15 5/8 | 27 | 17 11/16 | 18 | 27 13/16 | 18 5/8 | 16 9/16 | 28 3/4 | 19 11/16 | 19 3/16 | 29 11/16 | 20 3/4 | 19 13/16 |
| | 9 | AUF-(¹)-09-(*)-(+)60-24 | | | | | | | | | | | | | | | |
| | 12 | AUF-(¹)-12-(*)-(+)60-24 | | | | | | | | | | | | | | | |
| | 18 | AUF-(¹)-18-(*)-(+)60-24 | | | | | | | | | | | | | | | |
| | 24 | AUF-(¹)-24-(*)-(+)60-24 | | | | | | | | | | | | | | | |
| | 30 | AUF-(¹)-30-(*)-(+)60-24 | | | | | | | | | | | | | | | |
| | 36 | AUF-(¹)-36-(*)-(+)60-24 | | | | | | | | | | | | | | | |
| 36 | 6 | AUF-(¹)-06-(*)-(+)60-36 | 33 13/16 | 19½ | 22 9/16 | 37 7/16 | 23 11/16 | 24 15/16 | 38 3/16 | 24 5/8 | 25 7/16 | 39 3/16 | 25 11/16 | 26 1/8 | 40 1/16 | 26 3/4 | 26 11/16 |
| | 9 | AUF-(¹)-09-(*)-(+)60-36 | | | | | | | | | | | | | | | |
| | 12 | AUF-(¹)-12-(*)-(+)60-36 | | | | | | | | | | | | | | | |
| | 18 | AUF-(¹)-18-(*)-(+)60-36 | | | | | | | | | | | | | | | |
| | 24 | AUF-(¹)-24-(*)-(+)60-36 | | | | | | | | | | | | | | | |
| | 30 | AUF-(¹)-30-(*)-(+)60-36 | | | | | | | | | | | | | | | |
| | 36 | AUF-(¹)-36-(*)-(+)60-36 | | | | | | | | | | | | | | | |
| 48 | 6 | AUF-(¹)-06-(*)-(+)60-48 | 44 3/16 | 25½ | 29 7/16 | 47 13/16 | 29 11/16 | 31 7/8 | 48 3/16 | 30 5/8 | 32 3/8 | 49 9/16 | 31 11/16 | 33 1/16 | 50 7/16 | 32 3/4 | 33 5/8 |
| | 9 | AUF-(¹)-09-(*)-(+)60-48 | | | | | | | | | | | | | | | |
| | 12 | AUF-(¹)-12-(*)-(+)60-48 | | | | | | | | | | | | | | | |
| | 18 | AUF-(¹)-18-(*)-(+)60-48 | | | | | | | | | | | | | | | |
| | 24 | AUF-(¹)-24-(*)-(+)60-48 | | | | | | | | | | | | | | | |
| | 30 | AUF-(¹)-30-(*)-(+)60-48 | | | | | | | | | | | | | | | |
| | 36 | AUF-(¹)-36-(*)-(+)60-48 | | | | | | | | | | | | | | | |

*(¹) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes one pair of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. The systems are interchangeable.*



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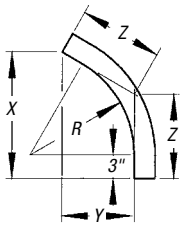
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800.816.7809
Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

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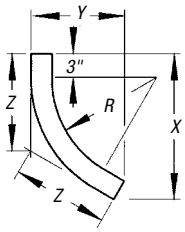
# Aluminum Tray






*Outside Bend*






*Inside Bend*

## Catalog Numbering System

| AHF | - | 7 | - | 36 | - | V | - | VO | 60 | - | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

## Selection Guide

**Inside Tray Widths:** 6, 9, 12, 18, 24, 30, 36

**Angle:** 60°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"–7"

## H-Style 60° Vertical Bends

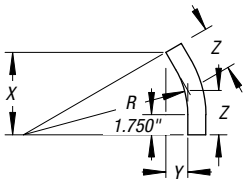
| NOMINAL RADIUS | | | (+) VO SIDE RAIL HEIGHT 4"–7" | | | (+) VI SIDE RAIL HEIGHT 4" | | | 5" | | | 6" | | | 7" | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | AHF-(†)-06-(*)-(+)60-12 | 14⅞ | 8⅝ | 9¹⁵⁄₁₆ | 18½ | 12¾ | 12⁵⁄₁₆ | 19⁵⁄₁₆ | 13¹¹⁄₁₆ | 12⅞ | 20⁵⁄₁₆ | 14¹³⁄₁₆ | 13½ | 21⅛ | 15¹³⁄₁₆ | 14⅛ |
| | 9 | AHF-(†)-09-(*)-(+)60-12 | | | | | | | | | | | | | | | |
| | 12 | AHF-(†)-12-(*)-(+)60-12 | | | | | | | | | | | | | | | |
| | 18 | AHF-(†)-18-(*)-(+)60-12 | | | | | | | | | | | | | | | |
| | 24 | AHF-(†)-24-(*)-(+)60-12 | | | | | | | | | | | | | | | |
| | 30 | AHF-(†)-30-(*)-(+)60-12 | | | | | | | | | | | | | | | |
| | 36 | AHF-(†)-36-(*)-(+)60-12 | | | | | | | | | | | | | | | |
| 24 | 6 | AHF-(†)-06-(*)-(+)60-24 | 25⁵⁄₁₆ | 14⅝ | 16⅞ | 28⅞ | 18¾ | 19¼ | 29¹¹⁄₁₆ | 19¹¹⁄₁₆ | 19¹³⁄₁₆ | 30¹¹⁄₁₆ | 20¹³⁄₁₆ | 20⁷⁄₁₆ | 31⁹⁄₁₆ | 21¹³⁄₁₆ | 21 |
| | 9 | AHF-(†)-09-(*)-(+)60-24 | | | | | | | | | | | | | | | |
| | 12 | AHF-(†)-12-(*)-(+)60-24 | | | | | | | | | | | | | | | |
| | 18 | AHF-(†)-18-(*)-(+)60-24 | | | | | | | | | | | | | | | |
| | 24 | AHF-(†)-24-(*)-(+)60-24 | | | | | | | | | | | | | | | |
| | 30 | AHF-(†)-30-(*)-(+)60-24 | | | | | | | | | | | | | | | |
| | 36 | AHF-(†)-36-(*)-(+)60-24 | | | | | | | | | | | | | | | |
| 36 | 6 | AHF-(†)-06-(*)-(+)60-36 | 35¹¹⁄₁₆ | 20⅝ | 23¹³⁄₁₆ | 39⁵⁄₁₆ | 24¾ | 26⅜ | 40¹⁄₁₆ | 25¹¹⁄₁₆ | 26¹¹⁄₁₆ | 41¹⁄₁₆ | 26¹³⁄₁₆ | 27⅜ | 41¹⁵⁄₁₆ | 27¹³⁄₁₆ | 27¹⁵⁄₁₆ |
| | 9 | AHF-(†)-09-(*)-(+)60-36 | | | | | | | | | | | | | | | |
| | 12 | AHF-(†)-12-(*)-(+)60-36 | | | | | | | | | | | | | | | |
| | 18 | AHF-(†)-18-(*)-(+)60-36 | | | | | | | | | | | | | | | |
| | 24 | AHF-(†)-24-(*)-(+)60-36 | | | | | | | | | | | | | | | |
| | 30 | AHF-(†)-30-(*)-(+)60-36 | | | | | | | | | | | | | | | |
| | 36 | AHF-(†)-36-(*)-(+)60-36 | | | | | | | | | | | | | | | |
| 48 | 6 | AHF-(†)-06-(*)-(+)60-48 | 46¹⁄₁₆ | 26⅝ | 30¹¹⁄₁₆ | 49¹¹⁄₁₆ | 30¾ | 33⅛ | 50⁷⁄₁₆ | 31¹¹⁄₁₆ | 33⅜ | 51½ | 32¹³⁄₁₆ | 34⁵⁄₁₆ | 52⁵⁄₁₆ | 33¹³⁄₁₆ | 34⅞ |
| | 9 | AHF-(†)-09-(*)-(+)60-48 | | | | | | | | | | | | | | | |
| | 12 | AHF-(†)-12-(*)-(+)60-48 | | | | | | | | | | | | | | | |
| | 18 | AHF-(†)-18-(*)-(+)60-48 | | | | | | | | | | | | | | | |
| | 24 | AHF-(†)-24-(*)-(+)60-48 | | | | | | | | | | | | | | | |
| | 30 | AHF-(†)-30-(*)-(+)60-48 | | | | | | | | | | | | | | | |
| | 36 | AHF-(†)-36-(*)-(+)60-48 | | | | | | | | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes one pair of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. The systems are interchangeable.*

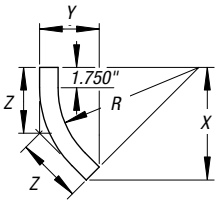
## Aluminum Tray






*Outside Bend*






*Inside Bend*

### Catalog Numbering System

| AUF | - | 5 | - | 24 | - | S | - | VI | 45 | - | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

### Selection Guide

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Angle**: 45°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"–7"

### U-Style 45° Vertical Bends

| NOMINAL RADIUS | | | (+) VO SIDE RAIL HEIGHT 4"–7" | | | (+) VI SIDE RAIL HEIGHT 4" | | | 5" | | | 6" | | | 7" | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | AUF-(†)-06-(*)-(+)45-12 | 11½ | 4¾ | 6¾ | 14 7/16 | 8 15/16 | 8 7/16 | 15 1/16 | 9 13/16 | 8 13/16 | 15 7/8 | 10 15/16 | 9 5/16 | 16 9/16 | 12 | 9¾ |
| | 9 | AUF-(†)-09-(*)-(+)45-12 | | | | | | | | | | | | | | | |
| | 12 | AUF-(†)-12-(*)-(+)45-12 | | | | | | | | | | | | | | | |
| | 18 | AUF-(†)-18-(*)-(+)45-12 | | | | | | | | | | | | | | | |
| | 24 | AUF-(†)-24-(*)-(+)45-12 | | | | | | | | | | | | | | | |
| | 30 | AUF-(†)-30-(*)-(+)45-12 | | | | | | | | | | | | | | | |
| | 36 | AUF-(†)-36-(*)-(+)45-12 | | | | | | | | | | | | | | | |
| 24 | 6 | AUF-(†)-06-(*)-(+)45-24 | 19 15/16 | 8¼ | 11 11/16 | 22 15/16 | 12 7/16 | 13 7/16 | 23 9/16 | 13⅜ | 13 13/16 | 24 5/16 | 14 7/16 | 14¼ | 25 1/16 | 15½ | 14 11/16 |
| | 9 | AUF-(†)-09-(*)-(+)45-24 | | | | | | | | | | | | | | | |
| | 12 | AUF-(†)-12-(*)-(+)45-24 | | | | | | | | | | | | | | | |
| | 18 | AUF-(†)-18-(*)-(+)45-24 | | | | | | | | | | | | | | | |
| | 24 | AUF-(†)-24-(*)-(+)45-24 | | | | | | | | | | | | | | | |
| | 30 | AUF-(†)-30-(*)-(+)45-24 | | | | | | | | | | | | | | | |
| | 36 | AUF-(†)-36-(*)-(+)45-24 | | | | | | | | | | | | | | | |
| 36 | 6 | AUF-(†)-06-(*)-(+)45-36 | 28 7/16 | 11 13/16 | 16 1/16 | 31⅜ | 15 15/16 | 18⅜ | 32 1/16 | 16⅞ | 18¾ | 32 13/16 | 18 | 19¼ | 33 9/16 | 19 | 19 11/16 |
| | 9 | AUF-(†)-09-(*)-(+)45-36 | | | | | | | | | | | | | | | |
| | 12 | AUF-(†)-12-(*)-(+)45-36 | | | | | | | | | | | | | | | |
| | 18 | AUF-(†)-18-(*)-(+)45-36 | | | | | | | | | | | | | | | |
| | 24 | AUF-(†)-24-(*)-(+)45-36 | | | | | | | | | | | | | | | |
| | 30 | AUF-(†)-30-(*)-(+)45-36 | | | | | | | | | | | | | | | |
| | 36 | AUF-(†)-36-(*)-(+)45-36 | | | | | | | | | | | | | | | |
| 48 | 6 | AUF-(†)-06-(*)-(+)45-48 | 36 15/16 | 15 5/16 | 21⅜ | 39⅞ | 19½ | 23⅜ | 40½ | 20⅜ | 23¾ | 41 5/16 | 21½ | 24 3/16 | 42 1/16 | 22 9/16 | 24⅝ |
| | 9 | AUF-(†)-09-(*)-(+)45-48 | | | | | | | | | | | | | | | |
| | 12 | AUF-(†)-12-(*)-(+)45-48 | | | | | | | | | | | | | | | |
| | 18 | AUF-(†)-18-(*)-(+)45-48 | | | | | | | | | | | | | | | |
| | 24 | AUF-(†)-24-(*)-(+)45-48 | | | | | | | | | | | | | | | |
| | 30 | AUF-(†)-30-(*)-(+)45-48 | | | | | | | | | | | | | | | |
| | 36 | AUF-(†)-36-(*)-(+)45-48 | | | | | | | | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes one pair of splice plates with hardware.*

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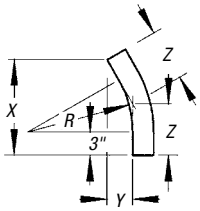
**Technical Services**
Tel: 888.862.3289

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# Aluminum Tray

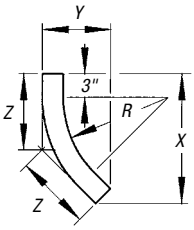


Outside Bend






Inside Bend




## Catalog Numbering System

| AHF | - | 5 | - | 24 | - | S | - | VI | 45 | - | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

## Selection Guide

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Angle**: 45°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"–7"

## H-Style 45° Vertical Bends

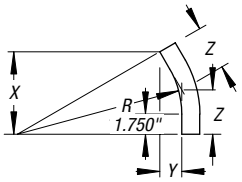
| NOMINAL RADIUS | | | (+) VO SIDE RAIL HEIGHT 4"–7" | | | (+) VI SIDE RAIL HEIGHT 4" | | | 5" | | | 6" | | | 7" | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | AHF-(†)-06-(*)-(+)45-12 | 13⅜ | 5⅝ | 8 | 16⁹⁄₁₆ | 9¹³⁄₁₆ | 9¹¹⁄₁₆ | 17³⁄₁₆ | 10¹¹⁄₁₆ | 10¹⁄₁₆ | 18 | 11⅞ | 10⁹⁄₁₆ | 18¹¹⁄₁₆ | 12⅞ | 10¹⁵⁄₁₆ |
| | 9 | AHF-(†)-09-(*)-(+)45-12 | | | | | | | | | | | | | | | |
| | 12 | AHF-(†)-12-(*)-(+)45-12 | | | | | | | | | | | | | | | |
| | 18 | AHF-(†)-18-(*)-(+)45-12 | | | | | | | | | | | | | | | |
| | 24 | AHF-(†)-24-(*)-(+)45-12 | | | | | | | | | | | | | | | |
| | 30 | AHF-(†)-30-(*)-(+)45-12 | | | | | | | | | | | | | | | |
| | 36 | AHF-(†)-36-(*)-(+)45-12 | | | | | | | | | | | | | | | |
| 24 | 6 | AHF-(†)-06-(*)-(+)45-24 | 22¹⁄₁₆ | 9⅛ | 12¹⁵⁄₁₆ | 25¹⁄₁₆ | 13⁵⁄₁₆ | 14¹¹⁄₁₆ | 25¹¹⁄₁₆ | 14¼ | 15¹⁄₁₆ | 26½ | 15⅜ | 15½ | 27³⁄₁₆ | 16⅜ | 15¹⁵⁄₁₆ |
| | 9 | AHF-(†)-09-(*)-(+)45-24 | | | | | | | | | | | | | | | |
| | 12 | AHF-(†)-12-(*)-(+)45-24 | | | | | | | | | | | | | | | |
| | 18 | AHF-(†)-18-(*)-(+)45-24 | | | | | | | | | | | | | | | |
| | 24 | AHF-(†)-24-(*)-(+)45-24 | | | | | | | | | | | | | | | |
| | 30 | AHF-(†)-30-(*)-(+)45-24 | | | | | | | | | | | | | | | |
| | 36 | AHF-(†)-36-(*)-(+)45-24 | | | | | | | | | | | | | | | |
| 36 | 6 | AHF-(†)-06-(*)-(+)45-36 | 30⁹⁄₁₆ | 12¹¹⁄₁₆ | 17¹⁵⁄₁₆ | 33½ | 16¹³⁄₁₆ | 19⅝ | 34³⁄₁₆ | 17¾ | 20 | 35 | 18⅞ | 20½ | 35¹¹⁄₁₆ | 19⅞ | 20⅞ |
| | 9 | AHF-(†)-09-(*)-(+)45-36 | | | | | | | | | | | | | | | |
| | 12 | AHF-(†)-12-(*)-(+)45-36 | | | | | | | | | | | | | | | |
| | 18 | AHF-(†)-18-(*)-(+)45-36 | | | | | | | | | | | | | | | |
| | 24 | AHF-(†)-24-(*)-(+)45-36 | | | | | | | | | | | | | | | |
| | 30 | AHF-(†)-30-(*)-(+)45-36 | | | | | | | | | | | | | | | |
| | 36 | AHF-(†)-36-(*)-(+)45-36 | | | | | | | | | | | | | | | |
| 48 | 6 | AHF-(†)-06-(*)-(+)45-48 | 39¹⁄₁₆ | 16⅜ | 22⅞ | 42 | 20⅜ | 24⅝ | 42⅝ | 21¼ | 25 | 43½ | 22⁷⁄₁₆ | 25⁷⁄₁₆ | 44³⁄₁₆ | 23⅜ | 25⅞ |
| | 9 | AHF-(†)-09-(*)-(+)45-48 | | | | | | | | | | | | | | | |
| | 12 | AHF-(†)-12-(*)-(+)45-48 | | | | | | | | | | | | | | | |
| | 18 | AHF-(†)-18-(*)-(+)45-48 | | | | | | | | | | | | | | | |
| | 24 | AHF-(†)-24-(*)-(+)45-48 | | | | | | | | | | | | | | | |
| | 30 | AHF-(†)-30-(*)-(+)45-48 | | | | | | | | | | | | | | | |
| | 36 | AHF-(†)-36-(*)-(+)45-48 | | | | | | | | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes one pair of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

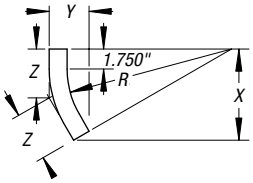
## Aluminum Tray






*Outside Bend*






*Inside Bend*

### Catalog Numbering System

| AUF | - | 6 | - | 12 | - | L | - | VO | 30 | - | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Degree | | Nominal Radius |

### Selection Guide

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Angle**: 30°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"–7"

### U-Style 30° Vertical Bends

| NOMINAL RADIUS | | | (+) VO SIDE RAIL HEIGHT 4"–7" | | | (+) VI SIDE RAIL HEIGHT 4" | | | 5" | | | 6" | | | 7" | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | AUF(†)-06-(*)-(+)30-12 | 9¼ | 2½ | 4 15/16 | 11⅜ | 6 1/16 | 6 1/16 | 11 13/16 | 7 9/16 | 6 5/16 | 12⅜ | 8 1/16 | 6⅝ | 12⅞ | 9¾ | 6⅞ |
| | 9 | AUF(†)-09-(*)-(+)30-12 | | | | | | | | | | | | | | | |
| | 12 | AUF(†)-12-(*)-(+)30-12 | | | | | | | | | | | | | | | |
| | 18 | AUF(†)-18-(*)-(+)30-12 | | | | | | | | | | | | | | | |
| | 24 | AUF(†)-24-(*)-(+)30-12 | | | | | | | | | | | | | | | |
| | 30 | AUF(†)-30-(*)-(+)30-12 | | | | | | | | | | | | | | | |
| | 36 | AUF(†)-36-(*)-(+)30-12 | | | | | | | | | | | | | | | |
| 24 | 6 | AUF(†)-06-(*)-(+)30-24 | 15¼ | 4 1/16 | 8 3/16 | 17⅜ | 8¼ | 9 5/16 | 17 13/16 | 9 3/16 | 9 9/16 | 18⅜ | 10¼ | 9 13/16 | 18⅞ | 11 5/16 | 10⅛ |
| | 9 | AUF(†)-09-(*)-(+)30-24 | | | | | | | | | | | | | | | |
| | 12 | AUF(†)-12-(*)-(+)30-24 | | | | | | | | | | | | | | | |
| | 18 | AUF(†)-18-(*)-(+)30-24 | | | | | | | | | | | | | | | |
| | 24 | AUF(†)-24-(*)-(+)30-24 | | | | | | | | | | | | | | | |
| | 30 | AUF(†)-30-(*)-(+)30-24 | | | | | | | | | | | | | | | |
| | 36 | AUF(†)-36-(*)-(+)30-24 | | | | | | | | | | | | | | | |
| 36 | 6 | AUF(†)-06-(*)-(+)30-36 | 21¼ | 5 11/16 | 11⅜ | 23⅜ | 9⅞ | 12½ | 23 13/16 | 10¾ | 12¾ | 24⅜ | 11⅞ | 13 1/16 | 24⅞ | 12 5/16 | 13 5/16 |
| | 9 | AUF(†)-09-(*)-(+)30-36 | | | | | | | | | | | | | | | |
| | 12 | AUF(†)-12-(*)-(+)30-36 | | | | | | | | | | | | | | | |
| | 18 | AUF(†)-18-(*)-(+)30-36 | | | | | | | | | | | | | | | |
| | 24 | AUF(†)-24-(*)-(+)30-36 | | | | | | | | | | | | | | | |
| | 30 | AUF(†)-30-(*)-(+)30-36 | | | | | | | | | | | | | | | |
| | 36 | AUF(†)-36-(*)-(+)30-36 | | | | | | | | | | | | | | | |
| 48 | 6 | AUF(†)-06-(*)-(+)30-48 | 21¼ | 7 5/16 | 14⅝ | 29⅜ | 11½ | 15¾ | 29 13/16 | 12⅜ | 16 | 30⅜ | 13½ | 16¼ | 30⅞ | 14 9/16 | 16 9/16 |
| | 9 | AUF(†)-09-(*)-(+)30-48 | | | | | | | | | | | | | | | |
| | 12 | AUF(†)-12-(*)-(+)30-48 | | | | | | | | | | | | | | | |
| | 18 | AUF(†)-18-(*)-(+)30-48 | | | | | | | | | | | | | | | |
| | 24 | AUF(†)-24-(*)-(+)30-48 | | | | | | | | | | | | | | | |
| | 30 | AUF(†)-30-(*)-(+)30-48 | | | | | | | | | | | | | | | |
| | 36 | AUF(†)-36-(*)-(+)30-48 | | | | | | | | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes one pair of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*



Thomas&Betts

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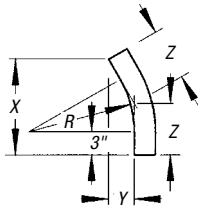
**Technical Services**
Tel: 888.862.3289

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## Aluminum Tray

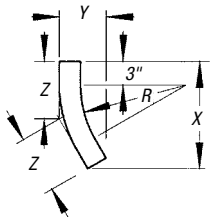


*Outside Bend*






*Inside Bend*




### Catalog Numbering System

| AHF | - | 6 | - | 12 | - | L | - | VO | 30 | - | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Degree | | Nominal Radius |

### Selection Guide

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Angle**: 30°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"–7"

### H-Style 30° Vertical Bends

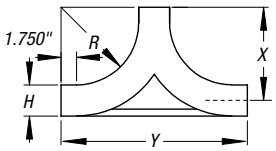
| NOMINAL RADIUS | | | (+) VO SIDE RAIL HEIGHT 4"–7" | | | (+) VI SIDE RAIL HEIGHT 4" | | | 5" | | | 6" | | | 7" | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | AHF(†)-06-(*)-(+)30-12 | 11⅜ | 3⅛ | 6³⁄₁₆ | 13¹¹⁄₁₆ | 7⁵⁄₁₆ | 7⁵⁄₁₆ | 14⅛ | 8³⁄₁₆ | 7⁹⁄₁₆ | 14¹¹⁄₁₆ | 9⅜ | 7⅞ | 13¹¹⁄₁₆ | 10⁵⁄₁₆ | 8⅛ |
| | 9 | AHF(†)-09-(*)-(+)30-12 | | | | | | | | | | | | | | | |
| | 12 | AHF(†)-12-(*)-(+)30-12 | | | | | | | | | | | | | | | |
| | 18 | AHF(†)-18-(*)-(+)30-12 | | | | | | | | | | | | | | | |
| | 24 | AHF(†)-24-(*)-(+)30-12 | | | | | | | | | | | | | | | |
| | 30 | AHF(†)-30-(*)-(+)30-12 | | | | | | | | | | | | | | | |
| | 36 | AHF(†)-36-(*)-(+)30-12 | | | | | | | | | | | | | | | |
| 24 | 6 | AHF(†)-06-(*)-(+)30-24 | 17⅝ | 4¹¹⁄₁₆ | 9⁷⁄₁₆ | 19¹¹⁄₁₆ | 8⅞ | 10⁹⁄₁₆ | 20⅛ | 9¹³⁄₁₆ | 10¹³⁄₁₆ | 20¹¹⁄₁₆ | 10¹⁵⁄₁₆ | 11⅛ | 19¹¹⁄₁₆ | 11¹⁵⁄₁₆ | 11⅜ |
| | 9 | AHF(†)-09-(*)-(+)30-24 | | | | | | | | | | | | | | | |
| | 12 | AHF(†)-12-(*)-(+)30-24 | | | | | | | | | | | | | | | |
| | 18 | AHF(†)-18-(*)-(+)30-24 | | | | | | | | | | | | | | | |
| | 24 | AHF(†)-24-(*)-(+)30-24 | | | | | | | | | | | | | | | |
| | 30 | AHF(†)-30-(*)-(+)30-24 | | | | | | | | | | | | | | | |
| | 36 | AHF(†)-36-(*)-(+)30-24 | | | | | | | | | | | | | | | |
| 36 | 6 | AHF(†)-06-(*)-(+)30-36 | 23⅝ | 6⁵⁄₁₆ | 12⅝ | 25¹¹⁄₁₆ | 10½ | 13⅝ | 26⅛ | 11⅜ | 14 | 26¹¹⁄₁₆ | 12⁹⁄₁₆ | 14⁵⁄₁₆ | 25¹¹⁄₁₆ | 13⁹⁄₁₆ | 14⁹⁄₁₆ |
| | 9 | AHF(†)-09-(*)-(+)30-36 | | | | | | | | | | | | | | | |
| | 12 | AHF(†)-12-(*)-(+)30-36 | | | | | | | | | | | | | | | |
| | 18 | AHF(†)-18-(*)-(+)30-36 | | | | | | | | | | | | | | | |
| | 24 | AHF(†)-24-(*)-(+)30-36 | | | | | | | | | | | | | | | |
| | 30 | AHF(†)-30-(*)-(+)30-36 | | | | | | | | | | | | | | | |
| | 36 | AHF(†)-36-(*)-(+)30-36 | | | | | | | | | | | | | | | |
| 48 | 6 | AHF(†)-06-(*)-(+)30-48 | 29⅝ | 7¹⁵⁄₁₆ | 15⅞ | 31¹¹⁄₁₆ | 12⅛ | 17 | 32⅛ | 13 | 17¼ | 32¹¹⁄₁₆ | 14³⁄₁₆ | 17⁹⁄₁₆ | 31¹¹⁄₁₆ | 15⅛ | 17¹³⁄₁₆ |
| | 9 | AHF(†)-09-(*)-(+)30-48 | | | | | | | | | | | | | | | |
| | 12 | AHF(†)-12-(*)-(+)30-48 | | | | | | | | | | | | | | | |
| | 18 | AHF(†)-18-(*)-(+)30-48 | | | | | | | | | | | | | | | |
| | 24 | AHF(†)-24-(*)-(+)30-48 | | | | | | | | | | | | | | | |
| | 30 | AHF(†)-30-(*)-(+)30-48 | | | | | | | | | | | | | | | |
| | 36 | AHF(†)-36-(*)-(+)30-48 | | | | | | | | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes one pair of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

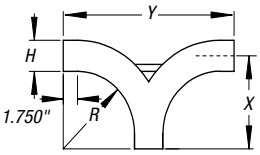
## Aluminum Tray






*Up*






*Down*

### Catalog Numbering System

| AUF | - | 6 | - | 24 | - | L | - | VTD | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | | Nominal Radius |

### Selection Guide

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"–7"

### U-Style Up/Down Vertical Tees

| NOMINAL RADIUS | | | | SIDE RAIL HEIGHT "H" | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4" | | 5" | | 6" | | 7" | |
| R | WIDTH | CAT. NO. | CAT. NO. | X | Y | X | Y | X | Y | X | Y |
| 12 | 6 | AUF(†)-06-(*)-VTU12 | AUF(†)-06-(*)-VTD12 | 15 13/16 | 31 11/16 | 16 5/16 | 32 9/16 | 16 7/8 | 33 3/4 | 17 3/8 | 34 3/4 |
| | 9 | AUF(†)-09-(*)-VTU12 | AUF(†)-09-(*)-VTD12 | | | | | | | | |
| | 12 | AUF(†)-12-(*)-VTU12 | AUF(†)-12-(*)-VTD12 | | | | | | | | |
| | 18 | AUF(†)-18-(*)-VTU12 | AUF(†)-18-(*)-VTD12 | | | | | | | | |
| | 24 | AUF(†)-24-(*)-VTU12 | AUF(†)-24-(*)-VTD12 | | | | | | | | |
| | 30 | AUF(†)-30-(*)-VTU12 | AUF(†)-30-(*)-VTD12 | | | | | | | | |
| | 36 | AUF(†)-36-(*)-VTU12 | AUF(†)-36-(*)-VTD12 | | | | | | | | |
| 24 | 6 | AUF(†)-06-(*)-VTU24 | AUF(†)-06-(*)-VTD24 | 27 13/16 | 55 11/16 | 28 5/16 | 56 9/16 | 28 7/8 | 57 3/4 | 29 3/8 | 58 3/4 |
| | 9 | AUF(†)-09-(*)-VTU24 | AUF(†)-09-(*)-VTD24 | | | | | | | | |
| | 12 | AUF(†)-12-(*)-VTU24 | AUF(†)-12-(*)-VTD24 | | | | | | | | |
| | 18 | AUF(†)-18-(*)-VTU24 | AUF(†)-18-(*)-VTD24 | | | | | | | | |
| | 24 | AUF(†)-24-(*)-VTU24 | AUF(†)-24-(*)-VTD24 | | | | | | | | |
| | 30 | AUF(†)-30-(*)-VTU24 | AUF(†)-30-(*)-VTD24 | | | | | | | | |
| | 36 | AUF(†)-36-(*)-VTU24 | AUF(†)-36-(*)-VTD24 | | | | | | | | |
| 36 | 6 | AUF(†)-06-(*)-VTU36 | AUF(†)-06-(*)-VTD36 | 39 13/16 | 79 11/16 | 40 5/16 | 80 9/16 | 40 7/8 | 81 3/4 | 41 3/8 | 82 3/4 |
| | 9 | AUF(†)-09-(*)-VTU36 | AUF(†)-09-(*)-VTD36 | | | | | | | | |
| | 12 | AUF(†)-12-(*)-VTU36 | AUF(†)-12-(*)-VTD36 | | | | | | | | |
| | 18 | AUF(†)-18-(*)-VTU36 | AUF(†)-18-(*)-VTD36 | | | | | | | | |
| | 24 | AUF(†)-24-(*)-VTU36 | AUF(†)-24-(*)-VTD36 | | | | | | | | |
| | 30 | AUF(†)-30-(*)-VTU36 | AUF(†)-30-(*)-VTD36 | | | | | | | | |
| | 36 | AUF(†)-36-(*)-VTU36 | AUF(†)-36-(*)-VTD36 | | | | | | | | |
| 48 | 6 | AUF(†)-06-(*)-VTU48 | AUF(†)-06-(*)-VTD48 | 51 13/16 | 103 11/16 | 52 5/16 | 104 9/16 | 52 7/8 | 105 3/4 | 53 3/8 | 106 3/4 |
| | 9 | AUF(†)-09-(*)-VTU48 | AUF(†)-09-(*)-VTD48 | | | | | | | | |
| | 12 | AUF(†)-12-(*)-VTU48 | AUF(†)-12-(*)-VTD48 | | | | | | | | |
| | 18 | AUF(†)-18-(*)-VTU48 | AUF(†)-18-(*)-VTD48 | | | | | | | | |
| | 24 | AUF(†)-24-(*)-VTU48 | AUF(†)-24-(*)-VTD48 | | | | | | | | |
| | 30 | AUF(†)-30-(*)-VTU48 | AUF(†)-30-(*)-VTD48 | | | | | | | | |
| | 36 | AUF(†)-36-(*)-VTU48 | AUF(†)-36-(*)-VTD48 | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Includes two pairs of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*



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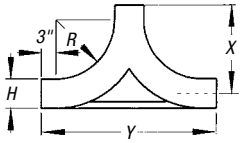
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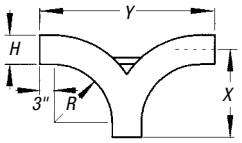
## Aluminum Tray






*Up*






*Down*

### Catalog Numbering System

| AHF | - | 6 | - | 24 | - | L | - | VTD | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | | Nominal Radius |

### Selection Guide

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"–7"

### H-Style Up/Down Vertical Tees

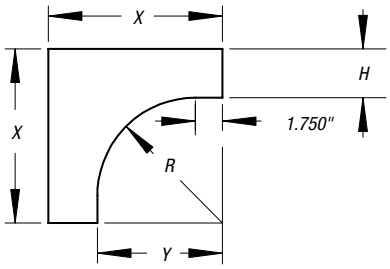
| NOMINAL RADIUS | | | | SIDE RAIL HEIGHT "H" | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4" | | 5" | | 6" | | 7" | |
| R | WIDTH | CAT. NO. | CAT. NO. | X | Y | X | Y | X | Y | X | Y |
| 12 | 6 | AHF(†)-06-(*)-VTU12 | AHF(†)-06-(*)-VTD12 | 17 1/16 | 34 3/16 | 17 3/16 | 35 1/16 | 18 1/8 | 36 1/4 | 18 5/8 | 37 1/4 |
| | 9 | AHF(†)-09-(*)-VTU12 | AHF(†)-09-(*)-VTD12 | | | | | | | | |
| | 12 | AHF(†)-12-(*)-VTU12 | AHF(†)-12-(*)-VTD12 | | | | | | | | |
| | 18 | AHF(†)-18-(*)-VTU12 | AHF(†)-18-(*)-VTD12 | | | | | | | | |
| | 24 | AHF(†)-24-(*)-VTU12 | AHF(†)-24-(*)-VTD12 | | | | | | | | |
| | 30 | AHF(†)-30-(*)-VTU12 | AHF(†)-30-(*)-VTD12 | | | | | | | | |
| | 36 | AHF(†)-36-(*)-VTU12 | AHF(†)-36-(*)-VTD12 | | | | | | | | |
| 24 | 6 | AHF(†)-06-(*)-VTU24 | AHF(†)-06-(*)-VTD24 | 29 1/16 | 58 3/16 | 29 3/16 | 59 1/16 | 30 1/8 | 60 1/4 | 30 5/8 | 61 1/4 |
| | 9 | AHF(†)-09-(*)-VTU24 | AHF(†)-09-(*)-VTD24 | | | | | | | | |
| | 12 | AHF(†)-12-(*)-VTU24 | AHF(†)-12-(*)-VTD24 | | | | | | | | |
| | 18 | AHF(†)-18-(*)-VTU24 | AHF(†)-18-(*)-VTD24 | | | | | | | | |
| | 24 | AHF(†)-24-(*)-VTU24 | AHF(†)-24-(*)-VTD24 | | | | | | | | |
| | 30 | AHF(†)-30-(*)-VTU24 | AHF(†)-30-(*)-VTD24 | | | | | | | | |
| | 36 | AHF(†)-36-(*)-VTU24 | AHF(†)-36-(*)-VTD24 | | | | | | | | |
| 36 | 6 | AHF(†)-06-(*)-VTU36 | AHF(†)-06-(*)-VTD36 | 41 1/16 | 82 3/16 | 41 3/16 | 83 1/16 | 42 1/8 | 84 1/4 | 42 5/8 | 85 1/4 |
| | 9 | AHF(†)-09-(*)-VTU36 | AHF(†)-09-(*)-VTD36 | | | | | | | | |
| | 12 | AHF(†)-12-(*)-VTU36 | AHF(†)-12-(*)-VTD36 | | | | | | | | |
| | 18 | AHF(†)-18-(*)-VTU36 | AHF(†)-18-(*)-VTD36 | | | | | | | | |
| | 24 | AHF(†)-24-(*)-VTU36 | AHF(†)-24-(*)-VTD36 | | | | | | | | |
| | 30 | AHF(†)-30-(*)-VTU36 | AHF(†)-30-(*)-VTD36 | | | | | | | | |
| | 36 | AHF(†)-36-(*)-VTU36 | AHF(†)-36-(*)-VTD36 | | | | | | | | |
| 48 | 6 | AHF(†)-06-(*)-VTU48 | AHF(†)-06-(*)-VTD48 | 53 1/16 | 106 3/16 | 53 3/16 | 107 1/16 | 54 1/8 | 108 1/4 | 54 5/8 | 109 1/4 |
| | 9 | AHF(†)-09-(*)-VTU48 | AHF(†)-09-(*)-VTD48 | | | | | | | | |
| | 12 | AHF(†)-12-(*)-VTU48 | AHF(†)-12-(*)-VTD48 | | | | | | | | |
| | 18 | AHF(†)-18-(*)-VTU48 | AHF(†)-18-(*)-VTD48 | | | | | | | | |
| | 24 | AHF(†)-24-(*)-VTU48 | AHF(†)-24-(*)-VTD48 | | | | | | | | |
| | 30 | AHF(†)-30-(*)-VTU48 | AHF(†)-30-(*)-VTD48 | | | | | | | | |
| | 36 | AHF(†)-36-(*)-VTU48 | AHF(†)-36-(*)-VTD48 | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Includes two pairs of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

## Aluminum Tray






### Catalog Numbering System

| AUF | - | 5 | - | 24 | - | V | - | CS | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | | Nominal Radius |

### Selection Guide

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"–7"

### U-Style Cable Support Fittings

| NOMINAL RADIUS | | | SIDE RAIL HEIGHT "H" | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 4" | | 5" | | 6" | | 7" | |
| R | WIDTH | CAT. NO. | X | Y | X | Y | X | Y | X | Y |
| 12 | 6 | AUF(†)-06-(*)-CS12 | 17 15/16 | 13 3/4 | 18 13/16 | 13 3/4 | 20 | 13 3/4 | 21 | 13 3/4 |
| | 9 | AUF(†)-09-(*)-CS12 | | | | | | | | |
| | 12 | AUF(†)-12-(*)-CS12 | | | | | | | | |
| | 18 | AUF(†)-18-(*)-CS12 | | | | | | | | |
| | 24 | AUF(†)-24-(*)-CS12 | | | | | | | | |
| | 30 | AUF(†)-30-(*)-CS12 | | | | | | | | |
| | 36 | AUF(†)-36-(*)-CS12 | | | | | | | | |
| 24 | 6 | AUF(†)-06-(*)-CS24 | 29 15/16 | 25 3/4 | 30 13/16 | 25 3/4 | 32 | 25 3/4 | 33 | 25 3/4 |
| | 9 | AUF(†)-09-(*)-CS24 | | | | | | | | |
| | 12 | AUF(†)-12-(*)-CS24 | | | | | | | | |
| | 18 | AUF(†)-18-(*)-CS24 | | | | | | | | |
| | 24 | AUF(†)-24-(*)-CS24 | | | | | | | | |
| | 30 | AUF(†)-30-(*)-CS24 | | | | | | | | |
| | 36 | AUF(†)-36-(*)-CS24 | | | | | | | | |
| 36 | 6 | AUF(†)-06-(*)-CS36 | 41 15/16 | 37 3/4 | 42 13/16 | 37 3/4 | 44 | 37 3/4 | 45 | 37 3/4 |
| | 9 | AUF(†)-09-(*)-CS36 | | | | | | | | |
| | 12 | AUF(†)-12-(*)-CS36 | | | | | | | | |
| | 18 | AUF(†)-18-(*)-CS36 | | | | | | | | |
| | 24 | AUF(†)-24-(*)-CS36 | | | | | | | | |
| | 30 | AUF(†)-30-(*)-CS36 | | | | | | | | |
| | 36 | AUF(†)-36-(*)-CS36 | | | | | | | | |
| 48 | 6 | AUF(†)-06-(*)-CS48 | 53 15/16 | 49 3/4 | 54 13/16 | 49 3/4 | 56 | 49 3/4 | 57 | 49 3/4 |
| | 9 | AUF(†)-09-(*)-CS48 | | | | | | | | |
| | 12 | AUF(†)-12-(*)-CS48 | | | | | | | | |
| | 18 | AUF(†)-18-(*)-CS48 | | | | | | | | |
| | 24 | AUF(†)-24-(*)-CS48 | | | | | | | | |
| | 30 | AUF(†)-30-(*)-CS48 | | | | | | | | |
| | 36 | AUF(†)-36-(*)-CS48 | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Includes one pair of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*



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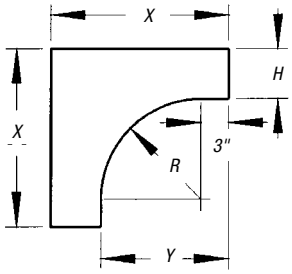
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## Aluminum Tray






### Catalog Numbering System

| AHF | - | 5 | - | 24 | - | V | - | CS | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | | Nominal Radius |

### Selection Guide

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 4"–7"

### H-Style Cable Support Fittings

| NOMINAL RADIUS | | | SIDE RAIL HEIGHT "H" | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 4" | | 5" | | 6" | | 7" | |
| R | WIDTH | CAT. NO. | X | Y | X | Y | X | Y | X | Y |
| 12 | 6 | AHF(†)-06-(*)-CS12 | 19 3/16 | 15 | 20 1/16 | 15 | 21 1/4 | 15 | 22 1/4 | 15 |
| | 9 | AHF(†)-09-(*)-CS12 | | | | | | | | |
| | 12 | AHF(†)-12-(*)-CS12 | | | | | | | | |
| | 18 | AHF(†)-18-(*)-CS12 | | | | | | | | |
| | 24 | AHF(†)-24-(*)-CS12 | | | | | | | | |
| | 30 | AHF(†)-30-(*)-CS12 | | | | | | | | |
| | 36 | AHF(†)-36-(*)-CS12 | | | | | | | | |
| 24 | 6 | AHF(†)-06-(*)-CS24 | 31 3/16 | 27 | 32 1/16 | 27 | 33 1/4 | 27 | 34 1/4 | 27 |
| | 9 | AHF(†)-09-(*)-CS24 | | | | | | | | |
| | 12 | AHF(†)-12-(*)-CS24 | | | | | | | | |
| | 18 | AHF(†)-18-(*)-CS24 | | | | | | | | |
| | 24 | AHF(†)-24-(*)-CS24 | | | | | | | | |
| | 30 | AHF(†)-30-(*)-CS24 | | | | | | | | |
| | 36 | AHF(†)-36-(*)-CS24 | | | | | | | | |
| 36 | 6 | AHF(†)-06-(*)-CS36 | 43 3/16 | 39 | 44 1/16 | 39 | 45 1/4 | 39 | 46 1/4 | 39 |
| | 9 | AHF(†)-09-(*)-CS36 | | | | | | | | |
| | 12 | AHF(†)-12-(*)-CS36 | | | | | | | | |
| | 18 | AHF(†)-18-(*)-CS36 | | | | | | | | |
| | 24 | AHF(†)-24-(*)-CS36 | | | | | | | | |
| | 30 | AHF(†)-30-(*)-CS36 | | | | | | | | |
| | 36 | AHF(†)-36-(*)-CS36 | | | | | | | | |
| 48 | 6 | AHF(†)-06-(*)-CS48 | 55 3/16 | 51 | 56 1/16 | 51 | 57 1/4 | 51 | 58 1/4 | 51 |
| | 9 | AHF(†)-09-(*)-CS48 | | | | | | | | |
| | 12 | AHF(†)-12-(*)-CS48 | | | | | | | | |
| | 18 | AHF(†)-18-(*)-CS48 | | | | | | | | |
| | 24 | AHF(†)-24-(*)-CS48 | | | | | | | | |
| | 30 | AHF(†)-30-(*)-CS48 | | | | | | | | |
| | 36 | AHF(†)-36-(*)-CS48 | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Includes one pair of splice plates with hardware.*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

## Aluminum Tray

# Tray Covers

Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

***Note**: Cover mounting hardware must be ordered separately.*

## Solid Covers

- These covers provide maximum mechanical protection for cables with limited heat build up. Solid covers are available with or without flange.
- Flanged covers have ½" flange.

***Note**: Cover mounting hardware must be ordered separately.*



## Ventilated Flanged Covers

- This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

***Note**: Cover mounting hardware must be ordered separately.*



## Peaked Flanged Covers

- Peaked covers offer mechanical protection, reduce pooling of liquids on the cover and minimize accumulation of snow or ice.
- Peaked covers have 15° rise.

***Note**: Cover mounting hardware must be ordered separately.*
*Covers greater than 12" wide available in 72" and 3m lengths only.*



# Straight Covers

**ABW - 1 - 12 - SNC - 72**

**Material**
**ABW** = Aluminum Accessory

**Cover Series**
**1** = For tray series: AH04, AH14
**2** = For tray series: AH06, AH24, AH34, AH44, AH54, AH25, AH35, AH45, AH16, AH26
**3** = For tray series: AH36, AH46, AH56, AH66 AH27, AH76, AH37

**Width**
**06** = 6"
**09** = 9"
**12** = 12"
**18** = 18"
**24** = 24"
**30** = 30"
**36** = 36"

**Bottom Type**
**SNC** = Non-Flanged Cover
**SFC** = Solid Flanged Cover
**VFC** = Ventilated Flanged Cover
**PFC** = Peaked Flanged Cover

**Length**
**72** = 72 in.
**144** = 12 ft.
**3** = 3m



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## Aluminum Tray

# Fitting Covers

**A UW - 12 - SNC - HB 90 - 24**

| Material | Fitting Style | Width | Cover Type | Fitting Type | Degree | Radius |
|---|---|---|---|---|---|---|
| **A** = Aluminum | **UW** = U-Beam<br>**HW** = H-Beam | **06** = 6"<br>**09** = 9"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **SNC** = Solid Non-Flanged Cover<br>**SFC** = Solid Flanged Cover<br>**VFC** = Ventilated Flanged Cover | **HB** = Horizontal Bend<br>**VI** = Vertical Inside Bend | **30** = 30°<br>**45** = 45°<br>**60** = 60°<br>**90** = 90° | **12** = 12"<br>**24** = 24"<br>**36** = 36"<br>**48** = 48" |

**A UW - 18 - 12 - SNC - RT - 12**

| Material | Fitting Style | Width 1 | Width 2 | Cover Type | Fitting Type | Radius* |
|---|---|---|---|---|---|---|
| **A** = Aluminum | **UW** = U-Beam<br>**HW** = H-Beam | **06** = 6"<br>**09** = 9"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **06** = 6"<br>**09** = 9"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **SNC** = Solid Non-Flanged Cover<br>**SFC** = Solid Flanged Cover<br>**VFC** = Ventilated Flanged Cover | **RT** = Horizontal Reduce Tee<br>**ET** = Horizontal Expand Tee<br>**EX** = Horizontal Expand Cross<br>**HSR** = Horizontal Straight Reducer<br>**HLR** = Horizontal Left Reducer<br>**HRR** = Horizontal Right Reducer<br>**HT** = Horizontal Tee<br>**HX** = Horizontal Cross<br>**VTU** = Vertical Tee Up<br>**HYR** = Horizontal Wye Right<br>**HYL** = Horizontal Wye Left | **12** = 12"<br>**24** = 24"<br>**36** = 36"<br>**48** = 48" |

***Note**: For ET and EX, W2 > W1. For RT, HSR, HLR and HRR, W1 > W2.*

** Radius not required for HSR, HLR, HRR, HYR, HYL.*

*For peaked fitting covers, see **pages B-383–B-385.***

**A UW - 4 - 12 - SNC - VO 90 - 24**

| Material | Fitting Style | Side Rail Height | Width | Cover Type | Fitting Type | Degree* | Radius |
|---|---|---|---|---|---|---|---|
| **A** = Aluminum | **UW** = U-Beam<br>**HW** = H-Beam | **4"**<br>**5"**<br>**6"**<br>**7"** | **06** = 6"<br>**09** = 9"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **SNC** = Solid Non-Flanged Cover<br>**SFC** = Solid Flanged Cover<br>**VFC** = Ventilated Flanged Cover | **VO** = Vertical Outside Bend<br>**VTD** = Vertical Tee Down<br>**CS** = Cable Support | **30** = 30°<br>**45** = 45°<br>**60** = 60°<br>**90** = 90° | **12** = 12"<br>**24** = 24"<br>**36** = 36"<br>**48** = 48" |

** Not required for VTD nor for CS.*

# Aluminum Tray

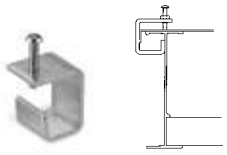
### Quantity of Standard Cover Clamps Required

| | | | |
|---|---|---|---|
| Straight Section (6 ft.) | 4 pcs. | Tees | 6 pcs. |
| Straight Section (12 ft./3m) | 6 pcs. | Crosses | 8 pcs. |
| Horizontal and Vertical Bends | 4 pcs. | | |

***Notes**: When using the Heavy-Duty Cover Clamp, only half the quantity of pieces are required. "B" in catalog number indicates this accessory can be used for both styles.*

## Economical Cover Clamp

- Rigid indoor cover clamp for flat and flanged covers

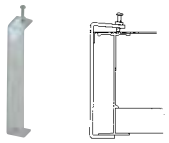


| CAT. NO. | MATERIAL | SIDE RAIL HEIGHT |
|---|---|---|
| ABW-SCC | Zinc-Plated Steel | All Sizes |

*Cannot be used with U-Style fittings.*
*Can be used with straights and AH fittings only.*

## Universal Fitting Cover Clamp

- Rigid indoor cover clamp for flat and flanged covers



| CAT. NO. | MATERIAL |
|---|---|
| ABW(*)FCC | Zinc-Plated Steel |

*(*) Insert side rail height — 4", 5", 6" or 7".*

## Heavy-Duty Cover Clamp

- Wraparound design offers added protection for rugged applications and outdoor conditions
- Hardware included



| CAT. NO. | MATERIAL | SIDE RAIL HEIGHT |
|---|---|---|
| ABW4(*)HCC | Aluminum | 4" |
| ABW5(*)HCC | | 5" |
| ABW6(*)HCC | | 6" |
| ABW7(*)HCC | | 7" |

*(*) Insert tray width — 06", 09", 12", 18", 24", 30", 36" or 42".*

## Extreme Heavy-Duty Cover Clamp

- Wraparound design offers added protection for rugged applications and outdoor conditions
- Hardware included



| CAT. NO. | MATERIAL | SIDE RAIL HEIGHT |
|---|---|---|
| ABW4(*)ECC | Aluminum | 4" |
| ABW5(*)ECC | | 5" |
| ABW6(*)ECC | | 6" |
| ABW7(*)ECC | | 7" |

*(*) Insert tray width — 06", 09", 12", 18", 24", 30" or 36".*

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

## Heavy-Duty Peaked Cover Clamp

- Wraparound design formed to fit peaked cover for outdoor applications
- Hardware included

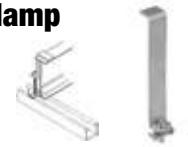


| CAT. NO. | MATERIAL | SIDE RAIL HEIGHT |
|---|---|---|
| ABW4(*)HPC | Aluminum | 4" |
| ABW5(*)HPC | | 5" |
| ABW6(*)HPC | | 6" |
| ABW7(*)HPC | | 7" |

*(*) Insert tray width — 06", 09", 12", 18", 24", 30" or 36".*

## Combination Hold-Down Cover Clamp

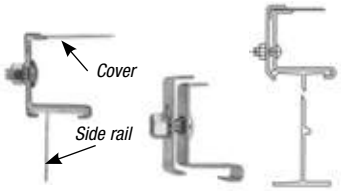
- Designed to secure flat and flanged covers with hold-down feature



| CAT. NO. | MATERIAL | SIDE RAIL HEIGHT |
|---|---|---|
| ABW-4-CCC | Aluminum | 4" |
| ABW-5-CCC | | 5" |
| ABW-6-CCC | | 6" |
| ABW-7-CCC | | 7" |

## Raised Cover Clamp

- Designed to raise cover above tray for added ventilation




| CAT. NO. | MATERIAL | COVER SERIES | COVER OFFSET |
|---|---|---|---|
| ABW(*) (+) RCC | Zinc-Plated Steel | 1, 2, 3 | 1" |
| | | | 2" |
| | | | 3" |

*(*) Insert cover series. (+) Insert cover offset.*

## Peaked End Cap

- Transition between peaked covers to straight covers



| CAT. NO. | MATERIAL |
|---|---|
| ABW(*) PEC | Aluminum |

*(*) Insert tray width — 6", 9", 12", 18", 24", 30" or 36".*

## Cover Joint Strip

- Join covers end to end



| CAT. NO. | MATERIAL |
|---|---|
| ABW(*) SCS | Plastic |

*(*) Insert tray width — 6", 9", 12", 18", 24", 30" or 36".*



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# Aluminum Tray

## Snap-In Splice Plate



- Lock into place for easy alignment and installation
- Packaged in pairs with hardware
- Standard with each straight and/or fitting

| CAT. NO. | MATERIAL | SIDE RAIL HEIGHT |
|---|---|---|
| ABW-4-SSP | Aluminum | 4" |
| ABW-5-SSP | | 5" |
| ABW-6-SSP | | 6" |
| ABW-7-SSP | | 7" |

## Snap-In Expansion Splice Plate



- Enables a 1" expansion or contraction of tray system
- Packaged in pairs with zinc-plated hardware

| CAT. NO. | MATERIAL | SIDE RAIL HEIGHT |
|---|---|---|
| ABW-4-ESP | Aluminum | 4" |
| ABW-5-ESP | | 5" |
| ABW-6-ESP | | 6" |
| ABW-7-ESP | | 7" |

## Horizontal Adjustable Plate



- Provide maximum installation flexibility
- Furnished in pairs with hardware

| CAT. NO. | MATERIAL | FOR TRAY WIDTHS |
|---|---|---|
| ABW(*)06HAP | Aluminum | 6" |
| ABW(*)09HAP | | 9" |
| ABW(*)12HAP | | 12" |
| ABW(*)18HAP | | 18" |
| ABW(*)24HAP | | 24" |
| ABW(*)30HAP | | 30" |
| ABW(*)36HAP | | 36" |
| ABW(*)42HAP | | 42" |

*(*) Insert side rail height.*

## Vertical Adjustable Plate

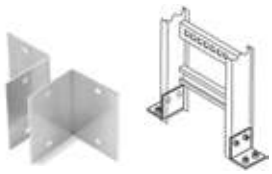


- Provide maximum flexibility for changes in elevation
- Furnished in pairs with hardware

| CAT. NO. | MATERIAL | SIDE RAIL HEIGHT |
|---|---|---|
| ABW-4-VSP | Aluminum | 4" |
| ABW-5-VSP | | 5" |
| ABW-6-VSP | | 6" |
| ABW-7-VSP | | 7" |

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

## Box to Tray Plates



- Secure tray to electrical panels or boxes, walls or end supports
- Furnished in pairs with hardware

| CAT. NO. | MATERIAL | SIDE RAIL HEIGHT |
|---|---|---|
| ABW-4-BSP | Aluminum | 4" |
| ABW-5-BSP | | 5" |
| ABW-6-BSP | | 6" |
| ABW-7-BSP | | 7" |

## Closure End Plate

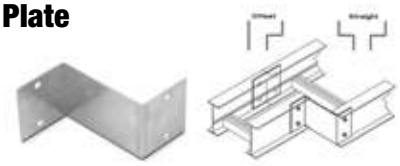


- Provides closure for any tray end
- Includes hardware

| CAT. NO. | MATERIAL | SIDE RAIL HEIGHT |
|---|---|---|
| ABW-4(*)-CEP | Aluminum | 4" |
| ABW-5(*)-CEP | | 5" |
| ABW-6(*)-CEP | | 6" |
| ABW-7(*)-CEP | | 7" |

*(*) Insert tray width — 06", 09", 12", 18", 24", 30" or 36".*

## Reducing Splice Plate



- Used in pairs for a straight reduction
- Use with a standard splice plate for an offset reduction

| CAT. NO. | MATERIAL | SIDE RAIL HEIGHT |
|---|---|---|
| ABW-4(*)-RSP | Aluminum | 4" |
| ABW-5(*)-RSP | | 5" |
| ABW-6(*)-RSP | | 6" |
| ABW-7(*)-RSP | | 7" |

*(*) For offset reduction: insert width to be reduced.*
*For straight reduction: insert ½ width to be reduced (two required).*
*Example: ABW-403-RSP = 3" offset reducer.*

## Step-Down Splice Plate



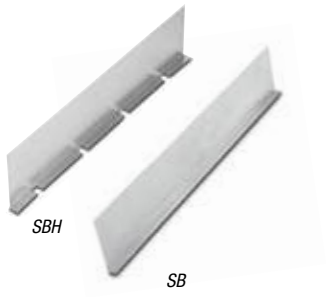
- Connects side rails of different heights
- Hardware included

| CAT. NO. | MATERIAL | SIDE RAIL HEIGHT |
|---|---|---|
| ABW(*)(**)SDS | Aluminum | 4" |
| | | 5" |
| | | 6" |
| | | 7" |

*(*) Side rail height 1. (**) Side rail height 2.*
***Note**: Side rail height 1 is greater than side rail height 2.*

# Aluminum Tray

## Barrier Strips




- Aluminum barrier strips provide a method of separating cables in tray and trough systems
- Easily installed using supplied hardware
- 72" barriers are flexible for use with horizontal fittings

| CAT. NO. | SIDE RAIL HEIGHT | LENGTH |
|---|---|---|
| ABW-4-SBH-72 | 4" | 72" |
| ABW-5-SBH-72 | 5" | 72" |
| ABW-6-SBH-72 | 6" | 72" |
| ABW-7-SBH-72 | 7" | 72" |
| ABW-4-SB-(*) | 4" | 144" |
| ABW-5-SB-(*) | 5" | 3m |
| ABW-6-SB-(*) | 6" | 3m |
| ABW-7-SB-(*) | 7" | 3m |

*(*) Insert length.*
***Note**: 72" barriers provided with three SPW10SCR; 144" and 3m barriers provided with six SPW10SCR.*

## Inside/Outside Vertical Bend Barriers



- Preformed to fit all standard aluminum vertical bends
- Provided with hardware

| INSIDE BEND CAT. NO. | OUTSIDE BEND CAT. NO. | SIDE RAIL HEIGHT |
|---|---|---|
| AUW(*)VIB-(**)-(+) | AUW(*)VOB-(**)-(+) | 4" |
| AUW(*)VIB-(**)-(+) | AUW(*)VOB-(**)-(+) | 5" |
| AUW(*)VIB-(**)-(+) | AUW(*)VOB-(**)-(+) | 6" |
| AUW(*)VIB-(**)-(+) | AUW(*)VOB-(**)-(+) | 7" |
| AHW(*)VIB-(**)-(+) | AHW(*)VOB-(**)-(+) | 4" |
| AHW(*)VIB-(**)-(+) | AHW(*)VOB-(**)-(+) | 5" |
| AHW(*)VIB-(**)-(+) | AHW(*)VOB-(**)-(+) | 6" |
| AHW(*)VIB-(**)-(+) | AHW(*)VOB-(**)-(+) | 7" |

*(*) Insert side rail height. (**) Insert bend angle. (+) Insert bend radius.*

## Barrier Strip Clamp





- Alternate mounting method for barrier strip mounting
- Barrier strip clamps mount barrier strips to ladder rungs and ventilated bottoms
- Complete mounting hardware supplied

| CAT. NO. | MATERIAL |
|---|---|
| SPW-BSC | Zinc-Plated Steel |
| SSW-BSC | Stainless Steel 316 |

## Barrier Strip Splice



- Alignment splice for joining connecting barrier strips

| CAT. NO. | MATERIAL |
|---|---|
| ABW-BSS | Plastic |

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

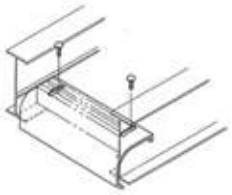


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# Aluminum Tray

## Drop-Out





- Designed to provide a smooth radiused surface at any position on the tray or trough bottom
- Easily attached using hardware provided
- Standard radius 4"

| CAT. NO. | DESCRIPTION/MATERIAL | WIDTHS OF TRAY |
|---|---|---|
| ABW(*)DO | For ladder and ventilated tray/ Aluminum | 06"<br>12"<br>18" |
| ABW(*)DOS | For solid tray/Aluminum | 24"<br>30"<br>36" |

*(*) Insert width of tray.*

## Wall Penetration Sleeve



- Designed to pass through walls and fire walls
- Hardware included

| CAT. NO. | MATERIAL | SIDE RAIL HEIGHT | WIDTHS OF TRAY |
|---|---|---|---|
| ABW(*)(**)WPS | Aluminum | 4" | 06" |
| | | 5" | 09" |
| | | 6" | 12" |
| | | 7" | 18" |
| | | | 24" |
| | | | 30" |
| | | | 36" |

*(*) Insert side rail height. (**) Insert width of tray.*
***Note**: Not fire rated. Fire stop not included.*

## Frame Type Tray to Box Plate



- Designed to secure tray to electrical enclosures and panels
- Hardware included

| CAT. NO. | MATERIAL | SIDE RAIL HEIGHTS | WIDTHS OF TRAY |
|---|---|---|---|
| ABW(*)(**)FBP | Aluminum | 4" | 06" |
| | | 5" | 09" |
| | | 6" | 12" |
| | | 7" | 18" |
| | | | 24" |
| | | | 30" |
| | | | 36" |

*(*) Insert side rail height.*
*(**) Insert width of tray.*

## Nylon Expansion Pad



- Allows for thermal expansion and contraction of cable trays over supports

| CAT. NO. | MATERIAL |
|---|---|
| ABW-NSP | Natural Nylon |

*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*

# Aluminum Tray

## Standard Hold-Down Clamp

- Designed for most indoor installations
- Easy to use and install
- Order ⅜" hardware separately

| CAT. NO. | MATERIAL |
|---|---|
| SPW-SHC | Zinc-Plated Steel |
| SSW-SHC | 316 Stainless |

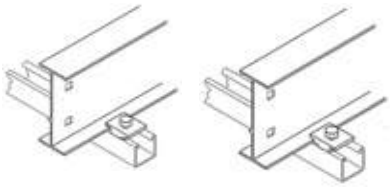


## Combination Hold-Down/ Expansion Guide Clamp

| CAT. NO. | MATERIAL |
|---|---|
| ABW-HECC | Aluminum |

***Note**: Order ⅜" hardware separately.*





*Hold-down clamp* *Expansion guide*

## Aluminum Tray Hardware

| CAT. NO. | MATERIAL | DESCRIPTION |
|---|---|---|
| SPW-1/4-CB | Zinc-Plated Steel | ¼" Carriage Bolt |
| SPW-3/8-CB | Zinc-Plated Steel | ⅜" Carriage Bolt |
| SPW-1/4-HN | Zinc-Plated Steel | ¼" Hex Nut |
| SPW-3/8-HN | Zinc-Plated Steel | ⅜" Hex Nut |
| SSW-1/4-CB | 316 Stainless | ¼" Carriage Bolt |
| SSW-1/4-HN | 316 Stainless | ¼" Hex Nut |
| SSW-3/8-CB | 316 Stainless | ⅜" Carriage Bolt |
| SSW-3/8-HN | 316 Stainless | ⅜" Hex Nut |
| SSW-3/8-HWK* | 316 Stainless | 316 Stainless Steel Hardware Kit |

** Contains eight bolts, eight nuts and eight lockwashers.*



*Square shoulder self-positioning carriage bolt.*

## Self-Drilling Tapping Screw

| CAT. NO. | MATERIAL | DESCRIPTION |
|---|---|---|
| SPW-10-SCR | Zinc-Plated Steel | Self-Drilling Tapping Screw |



*T&B aluminum cable tray is composed of two distinct systems — H-Style and U-Style. These systems are interchangeable.*



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# Aluminum Tray

## Cable Tray Guide

- Expansion guide for single or double runs of cable tray
- No need to field drill of channel or I-beam



| CAT. NO. | MATERIAL |
|---|---|
| SPW-CTG | Zinc-Plated Steel |
| SHW-CTG | Steel Hot Dip |

## Cable Tray Clamp

- Clamps for single run of cable tray
- No need to field drill the channel or I-beam



| CAT. NO. | MATERIAL |
|---|---|
| SPW-CTC | Zinc-Plated Steel |
| SHW-CTC | Steel Hot Dip |

## Vertical Tray Hanger

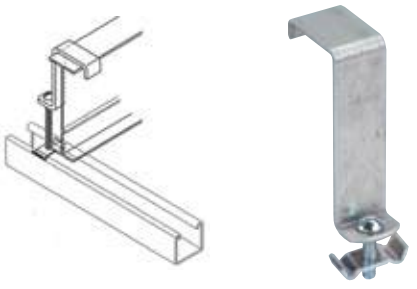


| CAT. NO. | MATERIAL | SIDE RAIL HEIGHT |
|---|---|---|
| ABW(*)VTH | Aluminum | 4"<br>5"<br>6"<br>7" |

** Insert side rail height.*

## Hold-Down Clamp

- Designed to secure cable tray to support system
- Hardware included

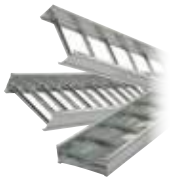


| CAT. NO. | MATERIAL | SIDE RAIL HEIGHT |
|---|---|---|
| ABW(*)HDC | Aluminum | 4"<br>5"<br>6"<br>7" |

*(*) Insert side rail height.*

# Steel Tray

## 3⅝" Straight Sections Series 1-3 — Ladder, Ventilated and Solid Trough



**SH 1 3 24 L09 - 3**

**Material**
- **SP** = Pre-Galvanized
- **SH** = Hot-Dip Galvanized after Fabrication
- **SS** = Stainless Steel 316

**Series**
- **1** = Series 1

**Side Rail Height**
- **3** = 3⅝"

**Width**
- **06** = 6"
- **09** = 9"
- **12** = 12"
- **18** = 18"
- **24** = 24"
- **30** = 30"
- **36** = 36"

**Bottom Type**
- **L06** = 6" Rung Spacing
- **L09** = 9" Rung Spacing
- **L12** = 12" Rung Spacing
- **V** = Ventilated*
- **S** = Solid Trough

**Length**
- **3** = 3m
- **144** = 12 ft.

### Support Span

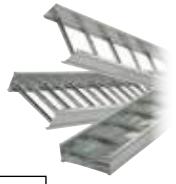
| SERIES | | FEET 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|
| **SP1-3** | Load (lb./ft.) | 200 | 112.5 | 72 | 50 | — | — | — | — |
| **SH1-3** | Deflection (in.) | .250 | .445 | .695 | 1.001 | — | — | — | — |
| **SS1-3** | Deflection Factor | .0013 | .0040 | .0097 | .0097 | — | — | — | — |

### Specifications

- NEMA Rating — All: 12A
- CSA — All: C/3M
- UL Cross Sectional Area — All: .40 in.$^2$
- Side Rail Design Factors, 1 Pair — All: Ix: .804 in.$^4$; Sx: .444 in.$^3$; Area: .488 in.$^2$

** For load ratings of CSA Class C/NEMA 12C or less, please see an alternative ventilated series of cable tray on* ***pages B-334–B-357****.*

## 4" Straight Sections Series 1-4, 3-4 — Ladder, Ventilated and Solid Trough



**SH 3 4 24 L09 144**

**Material**
- **SP** = Pre-Galvanized
- **SH** = Hot-Dip Galvanized after Fabrication
- **SS** = Stainless Steel 316

**Series**
- **1** = Series 1
- **3** = Series 3

**Side Rail Height**
- **4** = 4"

**Width**
- **06** = 6"
- **09** = 9"
- **12** = 12"
- **18** = 18"
- **24** = 24"
- **30** = 30"
- **36** = 36"

**Bottom Type**
- **L06** = 6" Rung Spacing
- **L09** = 9" Rung Spacing
- **L12** = 12" Rung Spacing
- **V** = Ventilated**
- **S** = Solid Trough

**Length***
- **3** = 3m
- **6** = 6m
- **144** = 12 ft.
- **288** = 24 ft.

### Support Span

| SERIES | | FEET 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|
| **SP1-4** | Load (lb./ft.) | 420 | 236 | 151 | 105 | — | — | — | — |
| **SH1-4** | Deflection (in.) | .420 | .473 | .756 | 1.155 | — | — | — | — |
| **SS1-4** | Deflection Factor | .001 | .002 | .005 | .011 | — | — | — | — |
| **SP3-4** | Load (lb./ft.) | 956 | 538 | 344 | 239 | 176 | 134 | 106 | 86 |
| **SH3-4** | Deflection (in.) | .478 | .538 | 1.032 | 1.672 | 2.282 | 3.091 | 3.928 | 4.816 |
| **SS3-4** | Deflection Factor | .0005 | .001 | .003 | .007 | .013 | .023 | .037 | .056 |

### Specifications

- NEMA Rating — SP1-4, SH1-4, SS1-4: 12C; SP3-4, SH3-4, SS3-4: 20A
- CSA — SP1-4, SH1-4, SS1-4: D/3M; SP3-4, SH3-4, SS3-4: D/6M
- UL Cross Sectional Area — All: .70 in.$^2$
- Side Rail Design Factors, 1 Pair — SP1-4, SH1-4, SS1-4: Ix: 1.974 in.$^4$; Sx: .788 in.$^3$; Area: .682 in.$^2$; SP3-4, SH3-4, SS3-4: Ix: 2.224 in.$^4$; Sx: 1.022 in.$^3$; Area: 1.080 in.$^2$

** Series 1-4 not available in 6m or 24 ft. lengths.*

*** For load ratings of CSA Class C/NEMA 12C or less, please see an alternative ventilated series of cable tray on* ***pages B-334–B-357****.*



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# Steel Tray

## 5" Straight Sections Series 2-5, 4-5, 5-5 — Ladder, Ventilated and Solid Trough



**SH 2 5 24 L09 144**

| Material | Series | Side Rail Height | Width | Bottom Type | Length |
|---|---|---|---|---|---|
| **SP** = Pre-Galvanized<br>**SH** = Hot-Dip Galvanized after Fabrication<br>**SS** = Stainless Steel 316 | **2** = Series 2<br>**4** = Series 4<br>**5** = Series 5 | **5** = 5" | **06** = 6"<br>**09** = 9"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **L06** = 6" Rung Spacing<br>**L09** = 9" Rung Spacing<br>**L12** = 12" Rung Spacing<br>**V** = Ventilated<br>**S** = Solid Trough | **3** = 3m<br>**6** = 6m<br>**144** = 12 ft.<br>**288** = 24 ft. |

### Support Span

| SERIES | | FEET 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|
| **SP2-5** | Load (lb./ft.) | 556 | 313 | 200 | 139 | 102 | 78 | 62 | 50 |
| **SH2-5** | Deflection (in.) | .193 | .344 | .537 | .773 | 1.052 | 1.375 | 1.740 | 2.148 |
| **SS2-5** | Deflection Factor | .0003 | .0011 | .0027 | .0056 | .0103 | .0176 | .0282 | .0430 |
| **SP4-5** | Load (lb./ft.) | 833 | 469 | 298 | 208 | 153 | 117 | 92 | 75 |
| **SH4-5** | Deflection (in.) | .223 | .397 | .617 | .894 | 1.217 | 1.589 | 1.998 | 2.483 |
| **SS4-5** | Deflection Factor | .003 | .0008 | .0021 | .0043 | .0079 | .0136 | .0217 | .0331 |
| **SP5-5** | Load (lb./ft.) | 111 | 625 | 298 | 278 | 204 | 156 | 92 | 100 |
| **SH5-5** | Deflection (in.) | .241 | .429 | .499 | .964 | 1.312 | 1.714 | .617 | 2.678 |
| **SS5-5*** | Deflection Factor | .0002 | .0007 | .0017 | .0035 | .0064 | .0110 | .0176 | .0268 |

### Specifications

- NEMA Rating — SP2-5, SH2-5, SS2-5: 20A; SP4-5, SH4-5, SS4-5: 20B; SP5-5, SH5-5, SS5-5: 20C
- CSA — SP2-5, SH2-5, SS2-5: D/6M; SP4-5, SH4-5, SS4-5: E/6M
- UL Cross Sectional Area — SP2-5, SH2-5, SS2-5: .70 in.$^2$; All others: 1.00 in.$^2$
- Side Rail Design Factors, 1 Pair — SP2-5, SH2-5, SS2-5: Ix: 2.89 in.$^4$; Sx: 1.09 in.$^3$; Area: .778 in.$^2$; SP4-5, SH4-5, SS4-5: Ix: 3.75 in.$^4$; Sx: 1.40 in.$^3$; Area: 1.018 in.$^2$; SP5-5, SH5-5, SS5-5: Ix: 4.635 in.$^4$; Sx: 1.732 in.$^3$; Area: 1.24 in.$^2$

## 6" Straight Sections Series 1-6, 3-6, 4-6 — Ladder, Ventilated and Solid Trough



**SH 3 6 24 L12 - 6**

| Material | Series | Side Rail Height | Width | Bottom Type | Length |
|---|---|---|---|---|---|
| **SP** = Pre-Galvanized<br>**SH** = Hot-Dip Galvanized after Fabrication<br>**SS** = Stainless Steel 316 | **1** = Series 1<br>**3** = Series 3<br>**4** = Series 4 | **6** = 6" | **06** = 6"<br>**09** = 9"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **L06** = 6" Rung Spacing<br>**L09** = 9" Rung Spacing<br>**L12** = 12" Rung Spacing<br>**V** = Ventilated*<br>**S** = Solid Trough | **3** = 3m<br>**6** = 6m<br>**144** = 12 ft.<br>**288** = 24 ft. |

### Support Span

| SERIES | | FEET 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|
| **SP1-6** | Load (lb./ft.) | 556 | 313 | 200 | 139 | 102 | 78 | 62 | 50 |
| **SH1-6** | Deflection (in.) | .126 | .224 | .349 | .503 | .685 | .895 | 1.132 | 1.398 |
| **SS1-6** | Deflection Factor | .0002 | .0007 | .0017 | .0036 | .0067 | .0115 | .0183 | .0280 |
| **SP3-6** | Load (lb./ft.) | 833 | 469 | 300 | 208 | 153 | 117 | 93 | 75 |
| **SH3-6** | Deflection (in.) | .156 | .277 | .433 | .624 | .849 | 1.109 | 1.404 | 1.733 |
| **SS3-6** | Deflection Factor | .0002 | .0006 | .0014 | .0030 | .0055 | .0095 | .0152 | .0231 |
| **SP4-6** | Load (lb./ft.) | 1289 | 725 | 464 | 322 | 237 | 181 | 143 | 116 |
| **SH4-6** | Deflection (in.) | .181 | .321 | .502 | .723 | .984 | 1.285 | 1.626 | 2.008 |
| **SS4-6**** | Deflection Factor | .0001 | .0004 | .0011 | .0022 | .0042 | .0071 | .0114 | .0173 |

### Specifications

- NEMA Rating — SP1-6, SH1-6, SS1-6: 20A; SP3-6, SH3-6, SS3-6: 20B; SP4-6, SH4-6, SS4-6: 20C
- CSA — SP1-6, SH1-6, SS1-6: D/6M; SP3-6, SH3-6, SS3-6: E/6M
- UL Cross Sectional Area — SP1-6, SH1-6, SS1-6: .70 in.$^2$; All others: 1.00 in.$^2$
- Side Rail Design Factors, 1 Pair — SP1-6, SH1-6, SS1-6: Ix: 4.44 in.$^4$; Sx: 1.39 in.$^3$; Area: .874 in.$^2$; SP3-6, SH3-6, SS3-6: Ix: 5.373 in.$^4$; Sx: 1.70 in.$^3$; Area: 1.40 in.$^2$; SP4-6, SH4-6, SS4-6: Ix: 7.173 in.$^4$; Sx: 2.250 in.$^3$; Area: 1.40 in.$^2$

** For load ratings of CSA Class C/NEMA 12C or less, please see an alternative ventilated series of cable tray on* ***pages B-334–B-357.***

## Steel Tray

# 7" Straight Sections, Series 3-7 — Ladder, Ventilated and Solid Trough



**SH 3 7 24 L09 288**

**Material**
- **SP** = Pre-Galvanized
- **SH** = Hot-Dip Galvanized after Fabrication
- **SS** = Stainless Steel 316

**Series**
- **3** = Series 3

**Side Rail Height**
- **7** = 7"

**Width**
- **06** = 6"
- **09** = 9"
- **12** = 12"
- **18** = 18"
- **24** = 24"
- **30** = 30"
- **36** = 36"

**Bottom Type**
- **L06** = 6" Rung Spacing
- **L09** = 9" Rung Spacing
- **L12** = 12" Rung Spacing
- **V** = Ventilated
- **S** = Solid Trough

**Length**
- **3** = 3m
- **6** = 6m
- **144** = 12 ft.
- **288** = 24 ft.

### Support Span

| | | FEET | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **SERIES** | | **6** | **8** | **10** | **12** | **14** | **16** | **18** | **20** |
| **SP3-7** | Load (lb./ft.) | 1333 | 750 | 480 | 333 | 245 | 188 | 148 | 120 |
| **SH3-7** | Deflection (in.) | .133 | .225 | .480 | .667 | .735 | 1.125 | 1.333 | 1.680 |
| **SS3-7** | Deflection Factor | .0001 | .0003 | .001 | .002 | .003 | .006 | .009 | .014 |

### Specifications

- NEMA Rating — All: 20C
- UL Cross Sectional Area — All: 1.50 in.$^2$
- Side Rail Design Factors, 1 Pair — All: Ix: 10.411 in.$^4$; Sx: 2.820 in.$^3$; Area: 1.54 in.$^2$

## Fitting Number Selection

**SHF 6 24 L VO 90 24**

**Material**
- **SPF** = Pre-Galvanized Fittings
- **SHF** = Hot-Dip Galvanized Fittings
- **SSF** = Stainless Steel 316

**Side Rail Depth**
- **3** = 3⅝"
- **4** = 4"
- **5** = 5"
- **6** = 6"
- **7** = 7"

**Width**
- **06** = 6"
- **09** = 9"
- **12** = 12"
- **18** = 18"
- **24** = 24"
- **30** = 30"
- **36** = 36"

**Bottom Type**
- **L** = Ladder*
- **V** = Ventilated**
- **S** = Solid Trough***

**Fitting Type**
- **HB** = Horizontal Bend
- **HT** = Horizontal Tee
- **HX** = Horizontal Cross
- **VI** = Vertical Inside Bend
- **VO** = Vertical Outside Bend
- **VTD** = Vertical Tee Down
- **VTU** = Vertical Tee Up
- **HYR** = Horizontal Wye Right
- **HYL** = Horizontal Wye Left
- **RT** = Horizontal Reducing Tee
- **ET** = Horizontal Expanding Tee
- **EX** = Horiz. Expand Cross
- **HLR** = Horizontal Left Reducer
- **HSR** = Horizontal Straight Reducer
- **HRR** = Horizontal Right Reducer
- **CS** = Cable Support Fitting

**Angle****
- **30** = 30°
- **45** = 45°
- **60** = 60°
- **90** = 90°

**Nominal Radius†**
- **12** = 12"
- **24** = 24"
- **36** = 36"
- **48** = 48"

** Manufactured with 9" rung spacing measured at the center line of fitting.*

*** Manufactured with 4" edge-to-edge rung spacing measured at the center line of fitting.*

**** Manufactured with flat sheet inserted under rungs with 9" rung spacing measured at the center line of fitting.*

***** Angle is required for HB, VI, VO only.*

*† Radius is not required for the following Fitting Types: HYR, HYL, HLR, HRR, HSR.*



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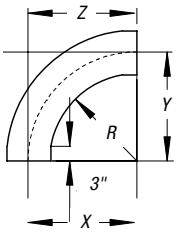
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## Steel Tray

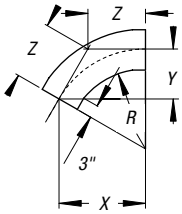


90° Horizontal Bend






60° Horizontal Bend




### Catalog Numbering System

| SHF | - | 4 | - | 24 | - | L | - | HB | 60 | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Prefix SPF, SHF, SSF | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

### Selection Guide

**Prefix**: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L– Ladder, V– Ventilated, S– Solid

**Side Rail Depth**: 3", 4", 5", 6", 7"

### 90° Horizontal Bend

| NOMINAL RADIUS | | | DIMENSIONS | |
|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y |
| 12 | 6 | PREFIX-(†)-06-(*)-HB90-12 | 15 | 15 |
| | 9 | PREFIX-(†)-09-(*)-HB90-12 | 16½ | 16½ |
| | 12 | PREFIX-(†)-12-(*)-HB90-12 | 18 | 18 |
| | 18 | PREFIX-(†)-18-(*)-HB90-12 | 21 | 21 |
| | 24 | PREFIX-(†)-24-(*)-HB90-12 | 24 | 24 |
| | 30 | PREFIX-(†)-30-(*)-HB90-12 | 27 | 27 |
| | 36 | PREFIX-(†)-36-(*)-HB90-12 | 30 | 30 |
| 24 | 6 | PREFIX-(†)-06-(*)-HB90-24 | 27 | 27 |
| | 9 | PREFIX-(†)-09-(*)-HB90-24 | 28½ | 28½ |
| | 12 | PREFIX-(†)-12-(*)-HB90-24 | 30 | 30 |
| | 18 | PREFIX-(†)-18-(*)-HB90-24 | 33 | 33 |
| | 24 | PREFIX-(†)-24-(*)-HB90-24 | 36 | 36 |
| | 30 | PREFIX-(†)-30-(*)-HB90-24 | 39 | 39 |
| | 36 | PREFIX-(†)-36-(*)-HB90-24 | 42 | 42 |
| 36 | 6 | PREFIX-(†)-06-(*)-HB90-36 | 39 | 39 |
| | 9 | PREFIX-(†)-09-(*)-HB90-36 | 40½ | 40½ |
| | 12 | PREFIX-(†)-12-(*)-HB90-36 | 42 | 42 |
| | 18 | PREFIX-(†)-18-(*)-HB90-36 | 45 | 45 |
| | 24 | PREFIX-(†)-24-(*)-HB90-36 | 48 | 48 |
| | 30 | PREFIX-(†)-30-(*)-HB90-36 | 51 | 51 |
| | 36 | PREFIX-(†)-36-(*)-HB90-36 | 54 | 54 |
| 48 | 6 | PREFIX-(†)-06-(*)-HB90-48 | 51 | 51 |
| | 9 | PREFIX-(†)-09-(*)-HB90-48 | 52½ | 52½ |
| | 12 | PREFIX-(†)-12-(*)-HB90-48 | 54 | 54 |
| | 18 | PREFIX-(†)-18-(*)-HB90-48 | 57 | 57 |
| | 24 | PREFIX-(†)-24-(*)-HB90-48 | 60 | 60 |
| | 30 | PREFIX-(†)-30-(*)-HB90-48 | 63 | 63 |
| | 36 | PREFIX-(†)-36-(*)-HB90-48 | 66 | 66 |

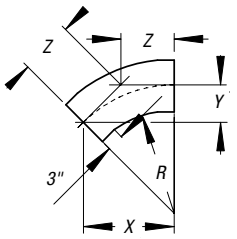
### 60° Horizontal Bend

| NOMINAL RADIUS | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z |
| 12 | 6 | PREFIX-(†)-06-(*)-HB60-12 | 14⅞ | 8⅝ | 9 15/16 |
| | 9 | PREFIX-(†)-09-(*)-HB60-12 | 16 3/16 | 9⅜ | 10 13/16 |
| | 12 | PREFIX-(†)-12-(*)-HB60-12 | 17½ | 10⅛ | 11 1/16 |
| | 18 | PREFIX-(†)-18-(*)-HB60-12 | 20 1/16 | 11⅝ | 13⅜ |
| | 24 | PREFIX-(†)-24-(*)-HB60-12 | 22 1/16 | 13⅛ | 15⅛ |
| | 30 | PREFIX-(†)-30-(*)-HB60-12 | 25 5/16 | 14⅝ | 16⅞ |
| | 36 | PREFIX-(†)-36-(*)-HB60-12 | 27⅞ | 16⅛ | 18 9/16 |
| 24 | 6 | PREFIX-(†)-06-(*)-HB60-24 | 25 5/16 | 14⅝ | 16⅞ |
| | 9 | PREFIX-(†)-09-(*)-HB60-24 | 26 9/16 | 15⅜ | 17¾ |
| | 12 | PREFIX-(†)-12-(*)-HB60-24 | 27⅞ | 16⅛ | 18 9/16 |
| | 18 | PREFIX-(†)-18-(*)-HB60-24 | 30½ | 17⅝ | 20 5/16 |
| | 24 | PREFIX-(†)-24-(*)-HB60-24 | 33 1/16 | 19⅛ | 22 1/16 |
| | 30 | PREFIX-(†)-30-(*)-HB60-24 | 35 11/16 | 20⅝ | 23 13/16 |
| | 36 | PREFIX-(†)-36-(*)-HB60-24 | 38¼ | 22⅛ | 25½ |
| 36 | 6 | PREFIX-(†)-06-(*)-HB60-36 | 35 11/16 | 20⅝ | 23 13/16 |
| | 9 | PREFIX-(†)-09-(*)-HB60-36 | 37 | 21⅜ | 24⅝ |
| | 12 | PREFIX-(†)-12-(*)-HB60-36 | 38¼ | 22⅛ | 25½ |
| | 18 | PREFIX-(†)-18-(*)-HB60-36 | 40⅞ | 23⅝ | 27⅜ |
| | 24 | PREFIX-(†)-24-(*)-HB60-36 | 43½ | 25⅛ | 29 |
| | 30 | PREFIX-(†)-30-(*)-HB60-36 | 46 1/16 | 26⅝ | 30 1/16 |
| | 36 | PREFIX-(†)-36-(*)-HB60-36 | 48 1/16 | 28⅛ | 32 7/16 |
| 48 | 6 | PREFIX-(†)-06-(*)-HB60-48 | 46 1/16 | 26⅝ | 30 1/16 |
| | 9 | PREFIX-(†)-09-(*)-HB60-48 | 47⅞ | 27⅜ | 31 9/16 |
| | 12 | PREFIX-(†)-12-(*)-HB60-48 | 48 1/16 | 28⅛ | 32 7/16 |
| | 18 | PREFIX-(†)-18-(*)-HB60-48 | 51 1/16 | 29⅝ | 34 3/16 |
| | 24 | PREFIX-(†)-24-(*)-HB60-48 | 53⅞ | 31⅛ | 35 15/16 |
| | 30 | PREFIX-(†)-30-(*)-HB60-48 | 56 7/16 | 32⅝ | 37⅝ |
| | 36 | PREFIX-(†)-36-(*)-HB60-48 | 59 1/16 | 34⅛ | 39⅜ |

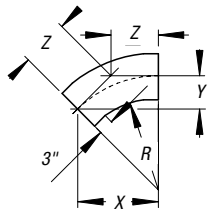
*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Includes one pair of splice plates with hardware.*

## Steel Tray








### Catalog Numbering System

| SHF | - | 4 | - | 24 | - | L | - | HB | 45 | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Prefix SPF, SHF, SSF | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

### Selection Guide

**Prefix**: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Angle**: 45°, 30°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 3", 4", 5", 6", 7"

### 45° Horizontal Bends

| NOMINAL RADIUS | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z |
| 12 | 6 | PREFIX-(†)-06-(*)-HB45-12 | 13 3/8 | 5 5/8 | 8 |
| | 9 | PREFIX-(†)-09-(*)-HB45-12 | 14 11/16 | 6 1/16 | 8 9/16 |
| | 12 | PREFIX-(†)-12-(*)-HB45-12 | 15 3/4 | 6 1/2 | 9 3/16 |
| | 18 | PREFIX-(†)-18-(*)-HB45-12 | 17 7/8 | 7 3/8 | 10 7/16 |
| | 24 | PREFIX-(†)-24-(*)-HB45-12 | 20 | 8 1/4 | 11 11/16 |
| | 30 | PREFIX-(†)-30-(*)-HB45-12 | 22 1/16 | 9 1/8 | 12 15/16 |
| | 36 | PREFIX-(†)-36-(*)-HB45-12 | 24 3/16 | 10 | 14 3/16 |
| 24 | 6 | PREFIX-(†)-06-(*)-HB45-24 | 22 1/16 | 9 1/8 | 12 15/16 |
| | 9 | PREFIX-(†)-09-(*)-HB45-24 | 23 1/8 | 9 9/16 | 13 9/16 |
| | 12 | PREFIX-(†)-12-(*)-HB45-24 | 24 3/16 | 10 | 14 3/16 |
| | 18 | PREFIX-(†)-18-(*)-HB45-24 | 26 5/16 | 10 15/16 | 15 7/16 |
| | 24 | PREFIX-(†)-24-(*)-HB45-24 | 28 7/16 | 11 13/16 | 16 11/16 |
| | 30 | PREFIX-(†)-30-(*)-HB45-24 | 30 9/16 | 12 11/16 | 17 15/16 |
| | 36 | PREFIX-(†)-36-(*)-HB45-24 | 32 11/16 | 13 9/16 | 19 1/8 |
| 36 | 6 | PREFIX-(†)-06-(*)-HB45-36 | 30 9/16 | 12 11/16 | 17 15/16 |
| | 9 | PREFIX-(†)-09-(*)-HB45-36 | 31 5/8 | 13 1/8 | 18 9/16 |
| | 12 | PREFIX-(†)-12-(*)-HB45-36 | 32 11/16 | 13 9/16 | 19 1/8 |
| | 18 | PREFIX-(†)-18-(*)-HB45-36 | 34 13/16 | 14 7/16 | 20 3/8 |
| | 24 | PREFIX-(†)-24-(*)-HB45-36 | 36 15/16 | 15 5/16 | 21 5/8 |
| | 30 | PREFIX-(†)-30-(*)-HB45-36 | 39 1/16 | 16 3/16 | 22 7/8 |
| | 36 | PREFIX-(†)-36-(*)-HB45-36 | 41 3/16 | 17 1/16 | 24 1/8 |
| 48 | 6 | PREFIX-(†)-06-(*)-HB45-48 | 39 1/16 | 16 3/16 | 22 7/8 |
| | 9 | PREFIX-(†)-09-(*)-HB45-48 | 40 1/8 | 16 5/8 | 23 1/2 |
| | 12 | PREFIX-(†)-12-(*)-HB45-48 | 41 3/16 | 17 1/16 | 24 1/8 |
| | 18 | PREFIX-(†)-18-(*)-HB45-48 | 43 5/16 | 17 15/16 | 25 3/8 |
| | 24 | PREFIX-(†)-24-(*)-HB45-48 | 45 7/16 | 18 13/16 | 26 5/8 |
| | 30 | PREFIX-(†)-30-(*)-HB45-48 | 47 9/16 | 19 11/16 | 27 7/8 |
| | 36 | PREFIX-(†)-36-(*)-HB45-48 | 49 11/16 | 20 9/16 | 29 1/8 |

### 30° Horizontal Bends

| NOMINAL RADIUS | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z |
| 12 | 6 | PREFIX-(†)-06-(*)-HB30-12 | 11 5/8 | 3 1/8 | 6 3/16 |
| | 9 | PREFIX-(†)-09-(*)-HB30-12 | 12 3/8 | 3 5/16 | 6 5/8 |
| | 12 | PREFIX-(†)-12-(*)-HB30-12 | 13 1/2 | 3 1/2 | 7 |
| | 18 | PREFIX-(†)-18-(*)-HB30-12 | 14 5/8 | 3 15/16 | 7 13/16 |
| | 24 | PREFIX-(†)-24-(*)-HB30-12 | 16 1/8 | 4 5/16 | 8 5/8 |
| | 30 | PREFIX-(†)-30-(*)-HB30-12 | 17 5/8 | 4 11/16 | 9 7/16 |
| | 36 | PREFIX-(†)-36-(*)-HB30-12 | 19 1/4 | 5 1/8 | 10 1/4 |
| 24 | 6 | PREFIX-(†)-06-(*)-HB30-24 | 17 5/8 | 4 11/16 | 9 7/16 |
| | 9 | PREFIX-(†)-09-(*)-HB30-24 | 18 3/8 | 4 15/16 | 9 13/16 |
| | 12 | PREFIX-(†)-12-(*)-HB30-24 | 19 1/8 | 5 1/16 | 10 1/16 |
| | 18 | PREFIX-(†)-18-(*)-HB30-24 | 20 5/8 | 5 9/16 | 11 1/16 |
| | 24 | PREFIX-(†)-24-(*)-HB30-24 | 22 1/8 | 5 15/16 | 11 13/16 |
| | 30 | PREFIX-(†)-30-(*)-HB30-24 | 23 5/8 | 6 5/16 | 12 11/16 |
| | 36 | PREFIX-(†)-36-(*)-HB30-24 | 25 1/8 | 6 12/16 | 13 7/16 |
| 36 | 6 | PREFIX-(†)-06-(*)-HB30-36 | 23 5/8 | 6 5/16 | 12 5/8 |
| | 9 | PREFIX-(†)-09-(*)-HB30-36 | 24 3/8 | 6 1/2 | 13 1/16 |
| | 12 | PREFIX-(†)-12-(*)-HB30-36 | 25 1/8 | 6 3/4 | 13 7/16 |
| | 18 | PREFIX-(†)-18-(*)-HB30-36 | 26 5/8 | 7 1/4 | 14 1/4 |
| | 24 | PREFIX-(†)-24-(*)-HB30-36 | 28 1/8 | 7 1/2 | 15 1/16 |
| | 30 | PREFIX-(†)-30-(*)-HB30-36 | 29 5/8 | 7 15/16 | 15 7/8 |
| | 36 | PREFIX-(†)-36-(*)-HB30-36 | 31 1/8 | 8 5/16 | 16 11/16 |
| 48 | 6 | PREFIX-(†)-06-(*)-HB30-48 | 29 5/8 | 7 15/16 | 15 7/8 |
| | 9 | PREFIX-(†)-09-(*)-HB30-48 | 30 3/8 | 8 1/8 | 16 1/4 |
| | 12 | PREFIX-(†)-12-(*)-HB30-48 | 31 1/8 | 8 5/16 | 16 11/16 |
| | 18 | PREFIX-(†)-18-(*)-HB30-48 | 32 5/8 | 8 3/4 | 17 1/2 |
| | 24 | PREFIX-(†)-24-(*)-HB30-48 | 34 1/8 | 9 1/8 | 18 1/4 |
| | 30 | PREFIX-(†)-30-(*)-HB30-48 | 35 5/8 | 9 9/16 | 19 1/16 |
| | 36 | PREFIX-(†)-36-(*)-HB30-48 | 37 1/8 | 9 15/16 | 19 7/8 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Includes one pair of splice plates with hardware.*



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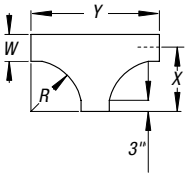
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**Technical Services**
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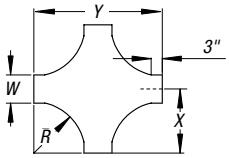
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## Steel Tray








### Catalog Numbering System

| SHF | - | 4 | - | 24 | - | L | - | HT | 12 |
|---|---|---|---|---|---|---|---|---|---|
| Prefix SPF, SHF, SSF | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Nominal Radius |

### Selection Guide

**Prefix**: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Angle**: 45°, 30°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 3", 4", 5", 6", 7"

### Horizontal Tees

| NOMINAL RADIUS | | | DIMENSIONS | |
|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y |
| 12 | 6 | PREFIX-(†)-06-(*)-HT12 | 15 | 30 |
| | 9 | PREFIX-(†)-09-(*)-HT12 | 16½ | 33 |
| | 12 | PREFIX-(†)-12-(*)-HT12 | 18 | 36 |
| | 18 | PREFIX-(†)-18-(*)-HT12 | 21 | 42 |
| | 24 | PREFIX-(†)-24-(*)-HT12 | 24 | 48 |
| | 30 | PREFIX-(†)-30-(*)-HT12 | 27 | 54 |
| | 36 | PREFIX-(†)-36-(*)-HT12 | 30 | 60 |
| 24 | 6 | PREFIX-(†)-06-(*)-HT24 | 27 | 54 |
| | 9 | PREFIX-(†)-09-(*)-HT24 | 28½ | 57 |
| | 12 | PREFIX-(†)-12-(*)-HT24 | 30 | 60 |
| | 18 | PREFIX-(†)-18-(*)-HT24 | 33 | 66 |
| | 24 | PREFIX-(†)-24-(*)-HT24 | 36 | 72 |
| | 30 | PREFIX-(†)-30-(*)-HT24 | 39 | 78 |
| | 36 | PREFIX-(†)-36-(*)-HT24 | 42 | 84 |
| 36 | 6 | PREFIX-(†)-06-(*)-HT36 | 39 | 78 |
| | 9 | PREFIX-(†)-09-(*)-HT36 | 40½ | 81 |
| | 12 | PREFIX-(†)-12-(*)-HT36 | 42 | 84 |
| | 18 | PREFIX-(†)-18-(*)-HT36 | 45 | 90 |
| | 24 | PREFIX-(†)-24-(*)-HT36 | 48 | 96 |
| | 30 | PREFIX-(†)-30-(*)-HT36 | 51 | 102 |
| | 36 | PREFIX-(†)-36-(*)-HT36 | 54 | 108 |
| 48 | 6 | PREFIX-(†)-06-(*)-HT48 | 51 | 102 |
| | 9 | PREFIX-(†)-09-(*)-HT48 | 52½ | 105 |
| | 12 | PREFIX-(†)-12-(*)-HT48 | 54 | 108 |
| | 18 | PREFIX-(†)-18-(*)-HT48 | 57 | 114 |
| | 24 | PREFIX-(†)-24-(*)-HT48 | 60 | 120 |
| | 30 | PREFIX-(†)-30-(*)-HT48 | 63 | 126 |
| | 36 | PREFIX-(†)-36-(*)-HT48 | 66 | 132 |

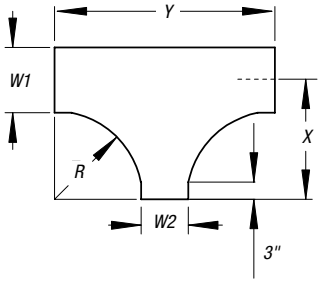
### Horizontal Crosses

| NOMINAL RADIUS | | | DIMENSIONS | |
|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y |
| 12 | 6 | PREFIX-(†)-06-(*)-HX12 | 15 | 30 |
| | 9 | PREFIX-(†)-09-(*)-HX12 | 16½ | 33 |
| | 12 | PREFIX-(†)-12-(*)-HX12 | 18 | 36 |
| | 18 | PREFIX-(†)-18-(*)-HX12 | 21 | 42 |
| | 24 | PREFIX-(†)-24-(*)-HX12 | 24 | 48 |
| | 30 | PREFIX-(†)-30-(*)-HX12 | 27 | 54 |
| | 36 | PREFIX-(†)-36-(*)-HX12 | 30 | 60 |
| 24 | 6 | PREFIX-(†)-06-(*)-HX24 | 27 | 54 |
| | 9 | PREFIX-(†)-09-(*)-HX24 | 28½ | 57 |
| | 12 | PREFIX-(†)-12-(*)-HX24 | 30 | 60 |
| | 18 | PREFIX-(†)-18-(*)-HX24 | 33 | 66 |
| | 24 | PREFIX-(†)-24-(*)-HX24 | 36 | 72 |
| | 30 | PREFIX-(†)-30-(*)-HX24 | 39 | 78 |
| | 36 | PREFIX-(†)-36-(*)-HX24 | 42 | 84 |
| 36 | 6 | PREFIX-(†)-06-(*)-HX36 | 39 | 78 |
| | 9 | PREFIX-(†)-09-(*)-HX36 | 40½ | 81 |
| | 12 | PREFIX-(†)-12-(*)-HX36 | 42 | 84 |
| | 18 | PREFIX-(†)-18-(*)-HX36 | 45 | 90 |
| | 24 | PREFIX-(†)-24-(*)-HX36 | 48 | 96 |
| | 30 | PREFIX-(†)-30-(*)-HX36 | 51 | 102 |
| | 36 | PREFIX-(†)-36-(*)-HX36 | 54 | 108 |
| 48 | 6 | PREFIX-(†)-06-(*)-HX48 | 51 | 102 |
| | 9 | PREFIX-(†)-09-(*)-HX48 | 52½ | 105 |
| | 12 | PREFIX-(†)-12-(*)-HX48 | 54 | 108 |
| | 18 | PREFIX-(†)-18-(*)-HX48 | 57 | 114 |
| | 24 | PREFIX-(†)-24-(*)-HX48 | 60 | 120 |
| | 30 | PREFIX-(†)-30-(*)-HX48 | 63 | 126 |
| | 36 | PREFIX-(†)-36-(*)-HX48 | 66 | 132 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Tees include two pairs/Crosses include three pairs of splice plates with hardware.*

## Steel Tray






### Catalog Numbering System

| SHF | - | 4 | - | 3024 | - | L | - | RT | 12 |
|---|---|---|---|---|---|---|---|---|---|
| Prefix SPF, SHF, SSF | | Side Rail Depth | | Width 1 Width 2 | | Bottom Style | | Fitting Type | Nominal Radius |

### Selection Guide

**Prefix**: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)

**Tray Widths W1**: 36, 30, 24, 18, 12, 9

**Tray Widths W2**: 30, 24, 18, 12, 9, 6

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 3", 4", 5", 6", 7"

### Horizontal Reducing Tees

| WIDTHS | | | (+) 12" NOMINAL RADIUS | | (+) 24" NOMINAL RADIUS | | (+) 36" NOMINAL RADIUS | | (+) 48" NOMINAL RADIUS | |
|---|---|---|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | X | Y | X | Y | X | Y | X | Y |
| 36 | 30 | PREFIX-(†)-3630-(*)-RT(+) | 30 | 54 | 42 | 78 | 54 | 102 | 66 | 126 |
| | 24 | PREFIX-(†)-3624-(*)-RT(+) | 30 | 48 | 42 | 72 | 54 | 96 | 66 | 120 |
| | 18 | PREFIX-(†)-3618-(*)-RT(+) | 30 | 42 | 42 | 66 | 54 | 90 | 66 | 114 |
| | 12 | PREFIX-(†)-3612-(*)-RT(+) | 30 | 36 | 42 | 60 | 54 | 84 | 66 | 108 |
| | 9 | PREFIX-(†)-3609-(*)-RT(+) | 30 | 33 | 42 | 57 | 54 | 81 | 66 | 105 |
| | 6 | PREFIX-(†)-3606-(*)-RT(+) | 30 | 30 | 42 | 54 | 54 | 78 | 66 | 102 |
| 30 | 24 | PREFIX-(†)-3024-(*)-RT(+) | 27 | 48 | 39 | 72 | 51 | 96 | 63 | 120 |
| | 18 | PREFIX-(†)-3018-(*)-RT(+) | 27 | 42 | 39 | 66 | 51 | 90 | 63 | 114 |
| | 12 | PREFIX-(†)-3012-(*)-RT(+) | 27 | 36 | 39 | 60 | 51 | 84 | 63 | 108 |
| | 9 | PREFIX-(†)-3009-(*)-RT(+) | 27 | 33 | 39 | 57 | 51 | 81 | 63 | 105 |
| | 6 | PREFIX-(†)-3006-(*)-RT(+) | 27 | 30 | 39 | 54 | 51 | 78 | 63 | 102 |
| 24 | 18 | PREFIX-(†)-2418-(*)-RT(+) | 24 | 42 | 36 | 66 | 48 | 90 | 60 | 114 |
| | 12 | PREFIX-(†)-2412-(*)-RT(+) | 24 | 36 | 36 | 60 | 48 | 84 | 60 | 108 |
| | 9 | PREFIX-(†)-2409-(*)-RT(+) | 24 | 33 | 36 | 57 | 48 | 81 | 60 | 105 |
| | 6 | PREFIX-(†)-2406-(*)-RT(+) | 24 | 30 | 36 | 54 | 48 | 78 | 60 | 102 |
| 18 | 12 | PREFIX-(†)-1812-(*)-RT(+) | 21 | 36 | 33 | 60 | 45 | 84 | 57 | 108 |
| | 9 | PREFIX-(†)-1809-(*)-RT(+) | 21 | 33 | 33 | 57 | 45 | 81 | 57 | 105 |
| | 6 | PREFIX-(†)-1806-(*)-RT(+) | 21 | 30 | 33 | 54 | 45 | 78 | 57 | 102 |
| 12 | 9 | PREFIX-(†)-1209-(*)-RT(+) | 18 | 33 | 30 | 57 | 42 | 81 | 54 | 105 |
| | 6 | PREFIX-(†)-1206-(*)-RT(+) | 18 | 30 | 30 | 54 | 42 | 78 | 54 | 102 |
| 9 | 6 | PREFIX-(†)-0906-(*)-RT(+) | 16½ | 30 | 28½ | 54 | 40½ | 78 | 52½ | 102 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert radius (12"–48"). Includes two pairs of splice plates with hardware.*



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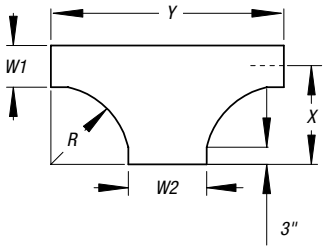
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Fax: 901.252.1354

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## Steel Tray






### Catalog Numbering System

| SHF | - | 4 | - | 2430 | - | L | - | ET | 12 |
|---|---|---|---|---|---|---|---|---|---|
| Prefix SPF, SHF, SSF | | Side Rail Depth | | Width 1 / Width 2 | | Bottom Style | | Fitting Type | Nominal Radius |

### Selection Guide

**Prefix**: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)

**Tray Widths W1**: 36, 30, 24, 18, 12, 9

**Tray Widths W2**: 30, 24, 18, 12, 9, 6

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 3", 4", 5", 6", 7"

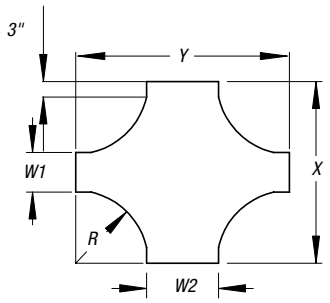
### Horizontal Expanding Tees

| WIDTHS | | | (+) 12" NOMINAL RADIUS | | (+) 24" NOMINAL RADIUS | | (+) 36" NOMINAL RADIUS | | (+) 48" NOMINAL RADIUS | |
|---|---|---|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | X | Y | X | Y | X | Y | X | Y |
| 30 | 36 | PREFIX-(†)-3036-(*)-ET(+) | 27 | 60 | 39 | 84 | 51 | 108 | 63 | 132 |
| 24 | 30 | PREFIX-(†)-2430-(*)-ET(+) | 24 | 54 | 36 | 78 | 48 | 102 | 60 | 126 |
| | 36 | PREFIX-(†)-2436-(*)-ET(+) | 24 | 60 | 36 | 84 | 48 | 108 | 60 | 132 |
| 18 | 24 | PREFIX-(†)-1824-(*)-ET(+) | 21 | 48 | 33 | 72 | 45 | 96 | 57 | 120 |
| | 30 | PREFIX-(†)-1830-(*)-ET(+) | 21 | 54 | 33 | 78 | 45 | 102 | 57 | 126 |
| | 36 | PREFIX-(†)-1836-(*)-ET(+) | 21 | 60 | 33 | 84 | 45 | 108 | 57 | 132 |
| 12 | 18 | PREFIX-(†)-1218-(*)-ET(+) | 18 | 42 | 30 | 66 | 42 | 90 | 54 | 114 |
| | 24 | PREFIX-(†)-1224-(*)-ET(+) | 18 | 48 | 30 | 72 | 42 | 96 | 54 | 120 |
| | 30 | PREFIX-(†)-1230-(*)-ET(+) | 18 | 54 | 30 | 78 | 42 | 102 | 54 | 126 |
| | 36 | PREFIX-(†)-1236-(*)-ET(+) | 18 | 60 | 30 | 84 | 42 | 108 | 54 | 132 |
| 9 | 12 | PREFIX-(†)-0912-(*)-ET(+) | 16½ | 36 | 28½ | 60 | 40½ | 84 | 52½ | 108 |
| | 18 | PREFIX-(†)-0918-(*)-ET(+) | 16½ | 42 | 28½ | 66 | 40½ | 90 | 52½ | 114 |
| | 24 | PREFIX-(†)-0924-(*)-ET(+) | 16½ | 48 | 28½ | 72 | 40½ | 96 | 52½ | 120 |
| | 30 | PREFIX-(†)-0930-(*)-ET(+) | 16½ | 54 | 28½ | 78 | 40½ | 102 | 52½ | 126 |
| | 36 | PREFIX-(†)-0936-(*)-ET(+) | 16½ | 60 | 28½ | 84 | 40½ | 108 | 52½ | 132 |
| 6 | 9 | PREFIX-(†)-0609-(*)-ET(+) | 15 | 33 | 27 | 57 | 39 | 81 | 51 | 105 |
| | 12 | PREFIX-(†)-0612-(*)-ET(+) | 15 | 36 | 27 | 60 | 39 | 84 | 51 | 108 |
| | 18 | PREFIX-(†)-0618-(*)-ET(+) | 15 | 42 | 27 | 66 | 39 | 90 | 51 | 114 |
| | 24 | PREFIX-(†)-0624-(*)-ET(+) | 15 | 48 | 27 | 72 | 39 | 96 | 51 | 120 |
| | 30 | PREFIX-(†)-0630-(*)-ET(+) | 15 | 54 | 27 | 78 | 39 | 102 | 51 | 126 |
| | 36 | PREFIX-(†)-0636-(*)-ET(+) | 15 | 60 | 27 | 84 | 39 | 108 | 51 | 132 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert radius (12"–48"). Includes two pairs of splice plates with hardware.*

## Steel Tray






### Catalog Numbering System

| SHF | - | 4 | - | 2430 | - | V | - | EX | 12 |
|---|---|---|---|---|---|---|---|---|---|
| Prefix SPF, SHF, SSF | | Side Rail Depth | | Width 1 Width 2 | | Bottom Style | | Fitting Type | Nominal Radius |

### Selection Guide

**Prefix**: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)

**Tray Widths W1**: 30, 24, 18, 12, 9, 6

**Tray Widths W2**: 36, 30, 24, 18, 12, 9

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 3", 4", 5", 6", 7"

### Horizontal Expanding Crosses

| WIDTHS | | | (+) 12" NOMINAL RADIUS | | (+) 24" NOMINAL RADIUS | | (+) 36" NOMINAL RADIUS | | (+) 48" NOMINAL RADIUS | |
|---|---|---|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | X | Y | X | Y | X | Y | X | Y |
| 30 | 36 | PREFIX-(†)-3036-(*)-EX(+) | 54 | 60 | 78 | 84 | 102 | 108 | 126 | 132 |
| 24 | 30 | PREFIX-(†)-2430-(*)-EX(+) | 48 | 54 | 72 | 78 | 96 | 102 | 120 | 126 |
| | 36 | PREFIX-(†)-2436-(*)-EX(+) | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 |
| 18 | 24 | PREFIX-(†)-1824-(*)-EX(+) | 42 | 48 | 66 | 72 | 90 | 96 | 114 | 120 |
| | 30 | PREFIX-(†)-1830-(*)-EX(+) | 42 | 54 | 66 | 78 | 90 | 102 | 114 | 126 |
| | 36 | PREFIX-(†)-1836-(*)-EX(+) | 42 | 60 | 66 | 84 | 90 | 108 | 114 | 132 |
| 12 | 18 | PREFIX-(†)-1218-(*)-EX(+) | 36 | 42 | 60 | 66 | 84 | 90 | 108 | 114 |
| | 24 | PREFIX-(†)-1224-(*)-EX(+) | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
| | 30 | PREFIX-(†)-1230-(*)-EX(+) | 36 | 54 | 60 | 78 | 84 | 102 | 108 | 126 |
| | 36 | PREFIX-(†)-1236-(*)-EX(+) | 36 | 60 | 60 | 84 | 84 | 108 | 108 | 132 |
| 9 | 12 | PREFIX-(†)-0912-(*)-EX(+) | 33 | 36 | 57 | 60 | 81 | 84 | 105 | 108 |
| | 18 | PREFIX-(†)-0918-(*)-EX(+) | 33 | 42 | 57 | 66 | 81 | 90 | 105 | 114 |
| | 24 | PREFIX-(†)-0924-(*)-EX(+) | 33 | 48 | 57 | 72 | 81 | 96 | 105 | 120 |
| | 30 | PREFIX-(†)-0930-(*)-EX(+) | 33 | 54 | 57 | 78 | 81 | 102 | 105 | 126 |
| | 36 | PREFIX-(†)-0936-(*)-EX(+) | 33 | 60 | 57 | 84 | 81 | 108 | 105 | 132 |
| 6 | 9 | PREFIX-(†)-0609-(*)-EX(+) | 30 | 33 | 54 | 57 | 78 | 81 | 102 | 105 |
| | 12 | PREFIX-(†)-0612-(*)-EX(+) | 30 | 36 | 54 | 60 | 78 | 84 | 102 | 108 |
| | 18 | PREFIX-(†)-0618-(*)-EX(+) | 30 | 42 | 54 | 66 | 78 | 90 | 102 | 114 |
| | 24 | PREFIX-(†)-0624-(*)-EX(+) | 30 | 48 | 54 | 72 | 78 | 96 | 102 | 120 |
| | 30 | PREFIX-(†)-0630-(*)-EX(+) | 30 | 54 | 54 | 78 | 78 | 102 | 102 | 126 |
| | 36 | PREFIX-(†)-0636-(*)-EX(+) | 30 | 60 | 54 | 84 | 78 | 108 | 102 | 132 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert radius (12"–48"). Includes three pairs of splice plates with hardware.*



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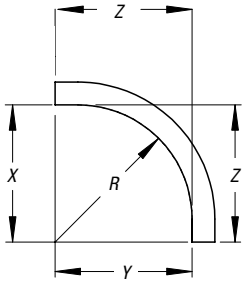
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Fax: 901.252.1354

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Tel: 888.862.3289

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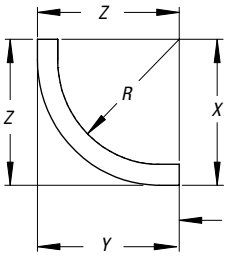
## Steel Tray






Outside Bend






Inside Bend

### Catalog Numbering System

| SHF | - | 4 | - | 24 | - | L | - | VI | 90 | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Prefix SPF, SHF, SSF | | Side Rail Depth | | Width 1 | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

### Selection Guide

**Prefix**: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Angle**: 90°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 3", 4", 5", 6", 7"

### 90° Vertical Bends

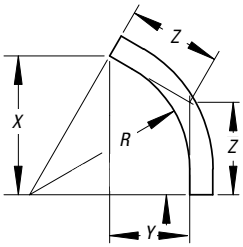
| NOMINAL RADIUS | | | (+) VO SIDE RAIL HEIGHT 3½"–7" | | | (+) VI SIDE RAIL HEIGHT 3½" | | | 4" | | | 5" | | | 6" | | | 7" | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | PREFIX-(†)-06-(*)-(+)90-12 | 12 | 12 | 12 | 15⅝ | 15⅝ | 15⅝ | 16³⁄₁₆ | 16³⁄₁₆ | 16³⁄₁₆ | 17³⁄₁₆ | 17³⁄₁₆ | 17³⁄₁₆ | 18³⁄₁₆ | 18³⁄₁₆ | 18³⁄₁₆ | 19³⁄₁₆ | 19³⁄₁₆ | 19³⁄₁₆ |
| | 9 | PREFIX-(†)-09-(*)-(+)90-12 | | | | | | | | | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-(+)90-12 | | | | | | | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)90-12 | | | | | | | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)90-12 | | | | | | | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)90-12 | | | | | | | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)90-12 | | | | | | | | | | | | | | | | | | |
| 24 | 6 | PREFIX-(†)-06-(*)-(+)90-24 | 24 | 24 | 24 | 27⅝ | 27⅝ | 27⅝ | 28³⁄₁₆ | 28³⁄₁₆ | 28³⁄₁₆ | 29³⁄₁₆ | 29³⁄₁₆ | 29³⁄₁₆ | 30³⁄₁₆ | 30³⁄₁₆ | 30³⁄₁₆ | 31³⁄₁₆ | 31³⁄₁₆ | 31³⁄₁₆ |
| | 9 | PREFIX-(†)-09-(*)-(+)90-24 | | | | | | | | | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-(+)90-24 | | | | | | | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)90-24 | | | | | | | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)90-24 | | | | | | | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)90-24 | | | | | | | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)90-24 | | | | | | | | | | | | | | | | | | |
| 36 | 6 | PREFIX-(†)-06-(*)-(+)90-36 | 36 | 36 | 36 | 39⅝ | 39⅝ | 39⅝ | 40³⁄₁₆ | 40³⁄₁₆ | 40³⁄₁₆ | 41³⁄₁₆ | 41³⁄₁₆ | 41³⁄₁₆ | 42³⁄₁₆ | 42³⁄₁₆ | 42³⁄₁₆ | 43³⁄₁₆ | 43³⁄₁₆ | 43³⁄₁₆ |
| | 9 | PREFIX-(†)-09-(*)-(+)90-36 | | | | | | | | | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-(+)90-36 | | | | | | | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)90-36 | | | | | | | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)90-36 | | | | | | | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)90-36 | | | | | | | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)90-36 | | | | | | | | | | | | | | | | | | |
| 48 | 6 | PREFIX-(†)-06-(*)-(+)90-48 | 48 | 48 | 48 | 51⅝ | 51⅝ | 51⅝ | 52³⁄₁₆ | 52³⁄₁₆ | 52³⁄₁₆ | 53³⁄₁₆ | 53³⁄₁₆ | 53³⁄₁₆ | 54³⁄₁₆ | 54³⁄₁₆ | 54³⁄₁₆ | 55³⁄₁₆ | 55³⁄₁₆ | 55³⁄₁₆ |
| | 9 | PREFIX-(†)-09-(*)-(+)90-48 | | | | | | | | | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-(+)90-48 | | | | | | | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)90-48 | | | | | | | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)90-48 | | | | | | | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)90-48 | | | | | | | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)90-48 | | | | | | | | | | | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes one pair of splice plates with hardware.*

## Steel Tray

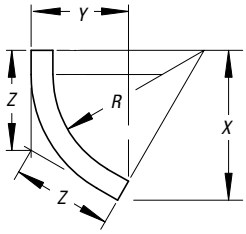


Outside Bend






Inside Bend




### Catalog Numbering System

| SHF | - | 4 | - | 24 | - | L | - | VI | 60 | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Prefix SPF, SHF, SSF | | Side Rail Depth | | Width 1 | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

### Selection Guide

**Prefix**: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Angle**: 60°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 3", 4", 5", 6", 7"

### 60° Vertical Bends

| NOMINAL RADIUS | | | (+) VO SIDE RAIL HEIGHT 3½"–7" | | | (+) VI SIDE RAIL HEIGHT | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 3½" | | | 4" | | | 5" | | | 6" | | | 7" | | |
| R | WIDTH | CAT. NO. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | PREFIX-(†)-06-(*)-(+)60-12 | 10 3/8 | 6 | 6 15/16 | 13 1/2 | 9 5/8 | 9 | 14 | 10 3/16 | 9 3/8 | 14 7/8 | 11 3/16 | 9 15/16 | 15 3/4, | 12 3/16 | 10 1/2 | 16 5/8, | 13 3/16 | 11 1/16 |
| | 9 | PREFIX-(†)-09-(*)-(+)60-12 | | | | | | | | | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-(+)60-12 | | | | | | | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)60-12 | | | | | | | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)60-12 | | | | | | | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)60-12 | | | | | | | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)60-12 | | | | | | | | | | | | | | | | | | |
| 24 | 6 | PREFIX-(†)-06-(*)-(+)60-24 | 20 13/16 | 12 | 13 7/8 | 23 15/16 | 15 5/8 | 15 15/16 | 24 7/16 | 16 3/16 | 16 1/4 | 25 1/4 | 17 3/16 | 16 7/8 | 26 1/8 | 18 3/16 | 17 7/16 | 27 | 19 3/16 | 18 |
| | 9 | PREFIX-(†)-09-(*)-(+)60-24 | | | | | | | | | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-(+)60-24 | | | | | | | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)60-24 | | | | | | | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)60-24 | | | | | | | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)60-24 | | | | | | | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)60-24 | | | | | | | | | | | | | | | | | | |
| 36 | 6 | PREFIX-(†)-06-(*)-(+)60-36 | 31 3/16 | 18 | 20 13/16 | 34 5/16 | 21 5/8 | 22 7/8 | 34 13/16 | 22 3/16 | 23 3/16 | 35 11/16 | 23 3/16 | 23 3/4 | 36 1/2 | 24 3/16 | 24 3/8 | 37 7/16 | 25 3/16 | 24 15/16 |
| | 9 | PREFIX-(†)-09-(*)-(+)60-36 | | | | | | | | | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-(+)60-36 | | | | | | | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)60-36 | | | | | | | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)60-36 | | | | | | | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)60-36 | | | | | | | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)60-36 | | | | | | | | | | | | | | | | | | |
| 48 | 6 | PREFIX-(†)-06-(*)-(+)60-48 | 41 9/16 | 24 | 27 11/16 | 44 11/16 | 27 5/8 | 29 13/16 | 45 3/16 | 28 3/16 | 30 1/8 | 46 1/16 | 29 3/16 | 30 11/16 | 46 15/16 | 30 3/16 | 31 1/8 | 47 13/16 | 31 3/16 | 31 1/8 |
| | 9 | PREFIX-(†)-09-(*)-(+)60-48 | | | | | | | | | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-(+)60-48 | | | | | | | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)60-48 | | | | | | | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)60-48 | | | | | | | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)60-48 | | | | | | | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)60-48 | | | | | | | | | | | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes one pair of splice plates with hardware.*



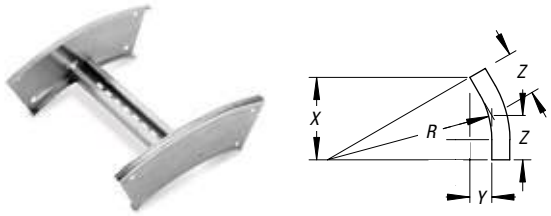
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## Steel Tray




*Outside Bend*




*Inside Bend*

### Catalog Numbering System

| SHF | - | 4 | - | 24 | - | L | - | VI | 45 | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Prefix SPF, SHF, SSF | | Side Rail Depth | | Width 1 | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

### Selection Guide

**Prefix**: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Angle**: 45°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 3", 4", 5", 6", 7"

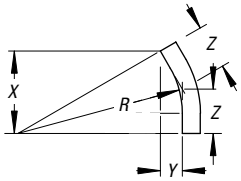
### 45° Vertical Bends

| NOMINAL RADIUS | | | (+) VO SIDE RAIL HEIGHT 3½"–7" | | | (+) VI SIDE RAIL HEIGHT | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 3½" | | | 4" | | | 5" | | | 6" | | | 7" | | |
| R | WIDTH | CAT. NO. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | PREFIX-(†)-06-(*)-(+)45-12 | 8½ | 3½ | 5 | 11 1/16 | 7⅛ | 6½ | 11 7/16 | 7 11/16 | 6 11/16 | 12⅛ | 8 11/16 | 7⅛ | 12⅞ | 9 11/16 | 7½ | 13 9/16 | 10 11/16 | 7 15/16 |
| | 9 | PREFIX-(†)-09-(*)-(+)45-12 | | | | | | | | | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-(+)45-12 | | | | | | | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)45-12 | | | | | | | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)45-12 | | | | | | | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)45-12 | | | | | | | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)45-12 | | | | | | | | | | | | | | | | | | |
| 24 | 6 | PREFIX-(†)-06-(*)-(+)45-24 | 17 | 7 | 9 5/16 | 19½ | 10⅝ | 11 7/16 | 19 5/16 | 11 3/16 | 11 11/16 | 20⅝ | 12 3/16 | 12 1/16 | 21⅜ | 13 3/16 | 12½ | 22 1/16 | 14 3/16 | 12 15/16 |
| | 9 | PREFIX-(†)-09-(*)-(+)45-24 | | | | | | | | | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-(+)45-24 | | | | | | | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)45-24 | | | | | | | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)45-24 | | | | | | | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)45-24 | | | | | | | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)45-24 | | | | | | | | | | | | | | | | | | |
| 36 | 6 | PREFIX-(†)-06-(*)-(+)45-36 | 25 7/16 | 10 9/16 | 14 15/16 | 28 | 14 3/16 | 16 7/16 | 28 7/16 | 14¾ | 16⅝ | 29⅛ | 15¾ | 17 1/16 | 29 13/16 | 16¾ | 17½ | 30½ | 17¾ | 17⅞ |
| | 9 | PREFIX-(†)-09-(*)-(+)45-36 | | | | | | | | | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-(+)45-36 | | | | | | | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)45-36 | | | | | | | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)45-36 | | | | | | | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)45-36 | | | | | | | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)45-36 | | | | | | | | | | | | | | | | | | |
| 48 | 6 | PREFIX-(†)-06-(*)-(+)45-48 | 33 15/16 | 14 1/16 | 19⅞ | 36½ | 17 11/16 | 21⅜ | 36⅞ | 18¼ | 21⅝ | 37⅝ | 19¼ | 22 | 39 5/16 | 20¼ | 22 7/16 | 39 | 21¼ | 22⅞ |
| | 9 | PREFIX-(†)-09-(*)-(+)45-48 | | | | | | | | | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-(+)45-48 | | | | | | | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)45-48 | | | | | | | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)45-48 | | | | | | | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)45-48 | | | | | | | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)45-48 | | | | | | | | | | | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes one pair of splice plates with hardware.*

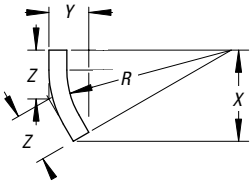
## Steel Tray






*Outside Bend*






*Inside Bend*

### Catalog Numbering System

| SHF | - | 4 | - | 24 | - | L | - | VI | 30 | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Prefix SPF, SHF, SSF | | Side Rail Depth | | Width 1 | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

### Selection Guide

**Prefix**: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Angle**: 30°

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 3", 4", 5", 6", 7"

### 30° Vertical Bends

| NOMINAL RADIUS | | | (+) VO SIDE RAIL HEIGHT 3½"–7" | | | (+) VI SIDE RAIL HEIGHT | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 3½" | | | 4" | | | 5" | | | 6" | | | 7" | | |
| R | WIDTH | CAT. NO. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | PREFIX-(†)-06-(*)-(+)30-12 | 6 | 1⅝ | 3 3/16 | 7 13/16 | 5¼ | 4 3/16 | 8 1/16 | 15 13/16 | 4 5/16 | 8 5/16 | 6 13/16 | 4⅝ | 9 1/16 | 7 13/16 | 4⅞ | 9 5/16 | 8 13/16 | 5⅛ |
| | 9 | PREFIX-(†)-09-(*)-(+)30-12 | | | | | | | | | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-(+)30-12 | | | | | | | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)30-12 | | | | | | | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)30-12 | | | | | | | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)30-12 | | | | | | | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)30-12 | | | | | | | | | | | | | | | | | | |
| 24 | 6 | PREFIX-(†)-06-(*)-(+)30-24 | 12 | 3 3/16 | 6 7/16 | 13 13/16 | 6 13/16 | 7⅜ | 14 1/16 | 7⅜ | 7 5/16 | 14 5/16 | 8⅜ | 7 13/16 | 15 1/16 | 9⅜ | 8 1/16 | 15 5/16 | 10⅜ | 8⅜ |
| | 9 | PREFIX-(†)-09-(*)-(+)30-24 | | | | | | | | | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-(+)30-24 | | | | | | | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)30-24 | | | | | | | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)30-24 | | | | | | | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)30-24 | | | | | | | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)30-24 | | | | | | | | | | | | | | | | | | |
| 36 | 6 | PREFIX-(†)-06-(*)-(+)30-36 | 18 | 4 13/16 | 9⅝ | 19 13/16 | 8 7/16 | 10⅝ | 20 1/16 | 9 | 10¾ | 20 1/16 | 10 | 11 1/16 | 21 1/16 | 11 | 11 5/16 | 21 5/16 | 12 | 11 9/16 |
| | 9 | PREFIX-(†)-09-(*)-(+)30-36 | | | | | | | | | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-(+)30-36 | | | | | | | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)30-36 | | | | | | | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)30-36 | | | | | | | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)30-36 | | | | | | | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)30-36 | | | | | | | | | | | | | | | | | | |
| 48 | 6 | PREFIX-(†)-06-(*)-(+)30-48 | 24 | 6 7/16 | 12⅞ | 25 13/16 | 10 1/16 | 13 13/16 | 26 1/16 | 10⅝ | 14 | 26 5/16 | 11⅝ | 14¼ | 27 1/16 | 12⅝ | 14½ | 27 5/16 | 13⅝ | 14 13/16 |
| | 9 | PREFIX-(†)-09-(*)-(+)30-48 | | | | | | | | | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-(+)30-48 | | | | | | | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)30-48 | | | | | | | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)30-48 | | | | | | | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)30-48 | | | | | | | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)30-48 | | | | | | | | | | | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style. (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Catalog Number. Includes one pair of splice plates with hardware.*



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## Steel Tray



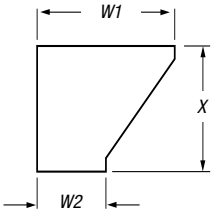
*Right-Hand Reducer*

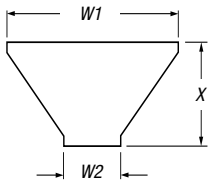


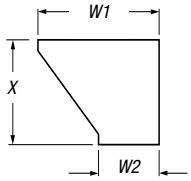
*Straight Reducer*



*Left-Hand Reducer*




### Catalog Numbering System

| SHF | - | 6 | - | 36 | - | 24 | - | L | HLR |
|---|---|---|---|---|---|---|---|---|---|
| Prefix SPF, SHF, SSF | | Side Rail Depth | | Width 1 | | Width 2 | | Bottom Style | Fitting Type |

### Selection Guide

**Prefix**: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)

**Tray Widths W1**: 36, 30, 24, 18, 12, 9

**Tray Widths W2**: 30, 24, 18, 12, 9, 6

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 3", 4", 5", 6", 7"

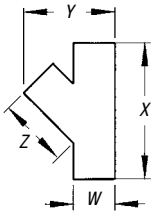
### Horizontal Reducers

| WIDTHS | | LEFT-HAND REDUCER | | STRAIGHT REDUCER (CONCENTRIC) | | RIGHT-HAND REDUCER | |
|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | DIM. X | CAT. NO. | DIM. X | CAT. NO. | DIM. X |
| 36 | 30 | PREFIX(†)-36-30-(*)-HLR | 15 7/16 | PREFIX(†)-36-30-(*)-HSR | 13 3/4 | PREFIX(†)-36-30-(*)-HRR | 15 7/16 |
| | 24 | PREFIX(†)-36-24-(*)-HLR | 18 15/16 | PREFIX(†)-36-24-(*)-HSR | 15 7/16 | PREFIX(†)-36-24-(*)-HRR | 18 15/16 |
| | 18 | PREFIX(†)-36-18-(*)-HLR | 22 3/8 | PREFIX(†)-36-18-(*)-HSR | 17 3/8 | PREFIX(†)-36-18-(*)-HRR | 22 3/8 |
| | 12 | PREFIX(†)-36-12-(*)-HLR | 25 7/8 | PREFIX(†)-36-12-(*)-HSR | 18 5/16 | PREFIX(†)-36-12-(*)-HRR | 25 7/8 |
| | 9 | PREFIX(†)-36-09-(*)-HLR | 27 9/16 | PREFIX(†)-36-09-(*)-HSR | 19 13/16 | PREFIX(†)-36-09-(*)-HRR | 27 9/16 |
| | 6 | PREFIX(†)-36-06-(*)-HLR | 29 5/16 | PREFIX(†)-36-06-(*)-HSR | 20 11/16 | PREFIX(†)-36-06-(*)-HRR | 29 5/16 |
| 30 | 24 | PREFIX(†)-30-24-(*)-HLR | 15 7/16 | PREFIX(†)-30-24-(*)-HSR | 13 3/4 | PREFIX(†)-30-24-(*)-HRR | 15 7/16 |
| | 18 | PREFIX(†)-30-18-(*)-HLR | 18 15/16 | PREFIX(†)-30-18-(*)-HSR | 15 7/16 | PREFIX(†)-30-18-(*)-HRR | 18 15/16 |
| | 12 | PREFIX(†)-30-12-(*)-HLR | 22 3/8 | PREFIX(†)-30-12-(*)-HSR | 17 3/16 | PREFIX(†)-30-12-(*)-HRR | 22 3/8 |
| | 9 | PREFIX(†)-30-09-(*)-HLR | 24 1/8 | PREFIX(†)-30-09-(*)-HSR | 18 1/16 | PREFIX(†)-30-09-(*)-HRR | 24 1/8 |
| | 6 | PREFIX(†)-30-06-(*)-HLR | 25 7/8 | PREFIX(†)-30-06-(*)-HSR | 18 15/16 | PREFIX(†)-30-06-(*)-HRR | 25 7/8 |
| 24 | 18 | PREFIX(†)-24-18-(*)-HLR | 15 7/16 | PREFIX(†)-24-18-(*)-HSR | 13 3/4 | PREFIX(†)-24-18-(*)-HRR | 15 7/16 |
| | 12 | PREFIX(†)-24-12-(*)-HLR | 18 15/16 | PREFIX(†)-24-12-(*)-HSR | 15 7/16 | PREFIX(†)-24-12-(*)-HRR | 18 15/16 |
| | 9 | PREFIX(†)-24-09-(*)-HLR | 20 11/16 | PREFIX(†)-24-09-(*)-HSR | 16 5/16 | PREFIX(†)-24-09-(*)-HRR | 20 11/16 |
| | 6 | PREFIX(†)-24-06-(*)-HLR | 22 3/8 | PREFIX(†)-24-06-(*)-HSR | 17 3/16 | PREFIX(†)-24-06-(*)-HRR | 22 3/8 |
| 18 | 12 | PREFIX(†)-18-12-(*)-HLR | 15 7/16 | PREFIX(†)-18-12-(*)-HSR | 13 3/4 | PREFIX(†)-18-12-(*)-HRR | 15 7/16 |
| | 9 | PREFIX(†)-18-09-(*)-HLR | 17 3/16 | PREFIX(†)-18-09-(*)-HSR | 14 5/8 | PREFIX(†)-18-09-(*)-HRR | 17 3/16 |
| | 6 | PREFIX(†)-18-06-(*)-HLR | 18 15/16 | PREFIX(†)-18-06-(*)-HSR | 15 7/16 | PREFIX(†)-18-06-(*)-HRR | 18 15/16 |
| 12 | 9 | PREFIX(†)-12-09-(*)-HLR | 13 3/4 | PREFIX(†)-12-09-(*)-HSR | 12 7/8 | PREFIX(†)-12-09-(*)-HRR | 13 3/4 |
| | 6 | PREFIX(†)-12-06-(*)-HLR | 15 7/16 | PREFIX(†)-12-06-(*)-HSR | 13 3/4 | PREFIX(†)-12-06-(*)-HRR | 15 7/16 |
| 9 | 6 | PREFIX(†)-09-06-(*)-HLR | 13 3/4 | PREFIX(†)-09-06-(*)-HSR | 12 7/8 | PREFIX(†)-09-06-(*)-HRR | 13 3/4 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Includes one pair of splice plates with hardware.*

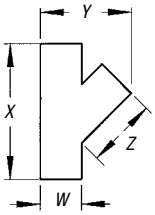
## Steel Tray






*Left-Hand Wye*






*Right-Hand Wye*

### Catalog Numbering System

| SHF | - | 6 | - | 36 | - | L | - | HLR |
|---|---|---|---|---|---|---|---|---|
| Fitting Material SPF, SHF, SSF | | Side Rail Depth | | Width 1 | | Bottom Style | | Fitting Type |

### Selection Guide

**Prefix**: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 3", 4", 5", 6", 7"

### 45° Horizontal Wyes

| WIDTH | LEFT HAND WYE CAT. NO. | RIGHT HAND WYE CAT. NO. | DIMENSIONS X | Y | Z |
|---|---|---|---|---|---|
| 6 | PREFIX-(†)-06-(*)-HYL | PREFIX-(†)-06-(*)-HYR | 18 5/16 | 14 13/16 | 12 7/16 |
| 9 | PREFIX-(†)-09-(*)-HYL | PREFIX-(†)-09-(*)-HYR | 22 1/2 | 19 15/16 | 15 7/16 |
| 12 | PREFIX-(†)-12-(*)-HYL | PREFIX-(†)-12-(*)-HYR | 26 3/4 | 25 | 18 7/16 |
| 18 | PREFIX-(†)-18-(*)-HYL | PREFIX-(†)-18-(*)-HYR | 35 1/4 | 35 1/4 | 24 7/16 |
| 24 | PREFIX-(†)-24-(*)-HYL | PREFIX-(†)-24-(*)-HYR | 43 1/2 | 45 1/2 | 30 7/16 |
| 30 | PREFIX-(†)-30-(*)-HYL | PREFIX-(†)-30-(*)-HYR | 52 1/4 | 55 3/4 | 36 7/16 |
| 36 | PREFIX-(†)-36-(*)-HYL | PREFIX-(†)-36-(*)-HYR | 60 11/16 | 66 | 42 7/16 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Includes two pairs of splice plates with hardware.*



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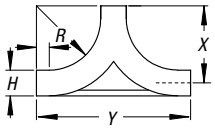
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## Steel Tray

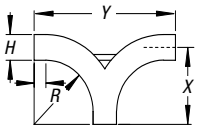


*Up*






*Down*




### Catalog Numbering System

| SHF | - | 4 | - | 24 | - | L | - | VTD | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material SPF, SHF, SSF | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | | Nominal Radius |

### Selection Guide

**Prefix**: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 3", 4", 5", 6", 7"

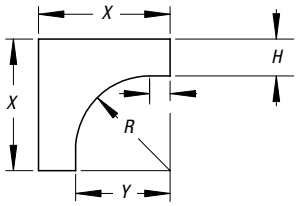
### Up and Down Vertical Tees

| NOMINAL RADIUS | | VERTICAL TEE UP | VERTICAL TEE DOWN | SIDE RAIL HEIGHT "H" | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 3½" | | 4" | | 5" | | 6" | | 7" | |
| R | WIDTH | CAT. NO. | CAT. NO. | X | Y | X | Y | X | Y | X | Y | X | Y |
| 12 | 6 | PREFIX-(†)-06-(*)-VTU-12 | PREFIX-(†)-06-(*)-VTD-12 | 13 13/16 | 27 5/8 | 14 1/8 | 28 3/16 | 14 5/8 | 29 3/16 | 15 1/8 | 30 3/16 | 15 5/8 | 31 3/16 |
| | 9 | PREFIX-(†)-09-(*)-VTU-12 | PREFIX-(†)-09-(*)-VTD-12 | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-VTU-12 | PREFIX-(†)-12-(*)-VTD-12 | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-VTU-12 | PREFIX-(†)-18-(*)-VTD-12 | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-VTU-12 | PREFIX-(†)-24-(*)-VTD-12 | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-VTU-12 | PREFIX-(†)-30-(*)-VTD-12 | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-VTU-12 | PREFIX-(†)-36-(*)-VTD-12 | | | | | | | | | | |
| 24 | 6 | PREFIX-(†)-06-(*)-VTU-24 | PREFIX-(†)-06-(*)-VTD-24 | 25 13/16 | 51 5/8 | 26 1/8 | 52 3/16 | 26 5/8 | 53 3/16 | 27 1/8 | 54 3/16 | 27 5/8 | 55 3/16 |
| | 9 | PREFIX-(†)-09-(*)-VTU-24 | PREFIX-(†)-09-(*)-VTD-24 | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-VTU-24 | PREFIX-(†)-12-(*)-VTD-24 | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-VTU-24 | PREFIX-(†)-18-(*)-VTD-24 | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-VTU-24 | PREFIX-(†)-24-(*)-VTD-24 | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-VTU-24 | PREFIX-(†)-30-(*)-VTD-24 | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-VTU-24 | PREFIX-(†)-36-(*)-VTD-24 | | | | | | | | | | |
| 36 | 6 | PREFIX-(†)-06-(*)-VTU-36 | PREFIX-(†)-06-(*)-VTD-36 | NA | NA | 38 1/8 | 76 3/16 | 38 5/8 | 77 3/16 | 39 1/8 | 78 3/16 | 39 5/8 | 79 3/16 |
| | 9 | PREFIX-(†)-09-(*)-VTU-36 | PREFIX-(†)-09-(*)-VTD-36 | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-VTU-36 | PREFIX-(†)-12-(*)-VTD-36 | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-VTU-36 | PREFIX-(†)-18-(*)-VTD-36 | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-VTU-36 | PREFIX-(†)-24-(*)-VTD-36 | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-VTU-36 | PREFIX-(†)-30-(*)-VTD-36 | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-VTU-36 | PREFIX-(†)-36-(*)-VTD-36 | | | | | | | | | | |
| 48 | 6 | PREFIX-(†)-06-(*)-VTU-48 | PREFIX-(†)-06-(*)-VTD-48 | NA | NA | 50 1/8 | 100 3/16 | 50 5/8 | 101 3/16 | 51 1/8 | 102 3/16 | 51 5/8 | 103 3/16 |
| | 9 | PREFIX-(†)-09-(*)-VTU-48 | PREFIX-(†)-09-(*)-VTD-48 | | | | | | | | | | |
| | 12 | PREFIX-(†)-12-(*)-VTU-48 | PREFIX-(†)-12-(*)-VTD-48 | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-VTU-48 | PREFIX-(†)-18-(*)-VTD-48 | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-VTU-48 | PREFIX-(†)-24-(*)-VTD-48 | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-VTU-48 | PREFIX-(†)-30-(*)-VTD-48 | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-VTU-48 | PREFIX-(†)-36-(*)-VTD-48 | | | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Includes two pairs of splice plates with hardware.*

## Steel Tray






### Catalog Numbering System

| SHF | - | 4 | - | 24 | - | L | - | CS | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|
| Fitting Material and Side Rail | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | | Nominal Radius |

### Selection Guide

**Prefix**: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)

**Inside Tray Widths**: 6, 9, 12, 18, 24, 30, 36

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth**: 3", 4", 5", 6", 7"

### Cable Support Fittings

| NOMINAL RADIUS | | | SIDERAIL HEIGHT "H" | | | | |
|---|---|---|---|---|---|---|---|
| | | | 3⅞" | 4" | 5" | 6" | 7" |
| R | WIDTH | CAT. NO. | X | | | | |
| 12 | 6 | PREFIX-(†)-06-(*)-CS-12 | 15⅝ | 16³⁄₁₆ | 17³⁄₁₆ | 18³⁄₁₆ | 19³⁄₁₆ |
| | 9 | PREFIX-(†)-09-(*)-CS-12 | | | | | |
| | 12 | PREFIX-(†)-12-(*)-CS-12 | | | | | |
| | 18 | PREFIX-(†)-18-(*)-CS-12 | | | | | |
| | 24 | PREFIX-(†)-24-(*)-CS-12 | | | | | |
| | 30 | PREFIX-(†)-30-(*)-CS-12 | | | | | |
| | 36 | PREFIX-(†)-36-(*)-CS-12 | | | | | |
| 24 | 6 | PREFIX-(†)-06-(*)-CS-24 | 27⅝ | 28³⁄₁₆ | 29³⁄₁₆ | 30³⁄₁₆ | 31³⁄₁₆ |
| | 9 | PREFIX-(†)-09-(*)-CS-24 | | | | | |
| | 12 | PREFIX-(†)-12-(*)-CS-24 | | | | | |
| | 18 | PREFIX-(†)-18-(*)-CS-24 | | | | | |
| | 24 | PREFIX-(†)-24-(*)-CS-24 | | | | | |
| | 30 | PREFIX-(†)-30-(*)-CS-24 | | | | | |
| | 36 | PREFIX-(†)-36-(*)-CS-24 | | | | | |
| 36 | 6 | PREFIX-(†)-06-(*)-CS-36 | 39⅝ | 40³⁄₁₆ | 41³⁄₁₆ | 42³⁄₁₆ | 43³⁄₁₆ |
| | 9 | PREFIX-(†)-09-(*)-CS-36 | | | | | |
| | 12 | PREFIX-(†)-12-(*)-CS-36 | | | | | |
| | 18 | PREFIX-(†)-18-(*)-CS-36 | | | | | |
| | 24 | PREFIX-(†)-24-(*)-CS-36 | | | | | |
| | 30 | PREFIX-(†)-30-(*)-CS-36 | | | | | |
| | 36 | PREFIX-(†)-36-(*)-CS-36 | | | | | |
| 48 | 6 | PREFIX-(†)-06-(*)-CS-48 | 51⅝ | 52³⁄₁₆ | 53³⁄₁₆ | 54³⁄₁₆ | 55³⁄₁₆ |
| | 9 | PREFIX-(†)-09-(*)-CS-48 | | | | | |
| | 12 | PREFIX-(†)-12-(*)-CS-48 | | | | | |
| | 18 | PREFIX-(†)-18-(*)-CS-48 | | | | | |
| | 24 | PREFIX-(†)-24-(*)-CS-48 | | | | | |
| | 30 | PREFIX-(†)-30-(*)-CS-48 | | | | | |
| | 36 | PREFIX-(†)-36-(*)-CS-48 | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Includes two pairs of splice plates with hardware.*



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## Steel Tray

# Tray Covers

Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Outside cable tray runs should be covered with a Peaked Flanged cover to protect cable from the elements and excess build up of snow and ice.

## Solid Covers

These covers provide maximum mechanical protection for cables with limited heat build up. Solid covers are available with or without flange. Flanged covers have ½" flange.

***Note**: Cover mounting hardware must be ordered separately.*



*Solid Flanged*



*Solid Non-Flanged*

## Ventilated Flanged Covers

This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

***Note**: Cover mounting hardware must be ordered separately.*



*Ventilated Flanged*

## Peaked Flanged Covers

Peaked covers offer mechanical protection plus prevent accumulation of liquid on the cover. Peaked covers have 15° rise at the peak. Covers greater than 12" wide available in 72" and 3m lengths only.

***Note**: Cover mounting hardware must be ordered separately.*



*Peaked Flanged*

# Straight Covers

**SPW 12 SNC 3**

| Material Prefix | Width | Type | Length |
|---|---|---|---|
| **SPW** = Pre-Galvanized | **06** = 6" | **SNC** = Solid Non-Flanged Cover | **72** = 72 in. |
| **SHW** = Hot-Dip Galvanized* | **09** = 9" | **SFC** = Solid Flanged Cover | **144** = 12 ft. |
| **SSW** = Stainless Steel 316 | **12** = 12" | **VFC** = Ventilated Flanged Cover | **3** = 3m |
| | **18** = 18" | **PFC** = Peaked Flanged Cover** | |
| | **24** = 24" | | |
| | **30** = 30" | | |
| | **36** = 36" | | |

** Hot-Dipped Covers only available in 72" and 1500mm lengths.*

*** Peaked covers greater than 12" wide available in 72" and 3m lengths only.*

## Steel Tray

# Fitting Covers

**SPW 12 SNC HB 90 24**

| Material Prefix | Width | Cover Type | Fitting Type | Degree* | Radius |
|---|---|---|---|---|---|
| **SPW** = Pre-Galvanized | **06** = 6" | **SNC** = Solid Non-Flanged Cover | **HB** = Horizontal Bend | **30** = 30° | **12** = 12" |
| **SHW** = Hot-Dip Galvanized | **09** = 9" | **SFC** = Solid Flanged Cover | **HT** = Horizontal Tee | **45** = 45° | **24** = 24" |
| **SSW** = Stainless Steel 316 | **12** = 12" | **VFC** = Ventilated Flanged Cover | **HX** = Horizontal Cross | **60** = 60° | **36** = 36" |
| | **18** = 18" | | **VI** = Vertical Inside Bend | **90** = 90° | **48** = 48" |
| | **24** = 24" | | **VTU** = Vertical Tee Down | | |
| | **30** = 30" | | **HYR** = Horizontal Wye Right | | |
| | **36** = 36" | | **HYL** = Horizontal Wye Left | | |

** Required for HB and VI only.*

**SPW 18 12 SNC RT 24**

| Material Prefix | Width 1 | Width 2 | Cover Type | Fitting Type | Radius* |
|---|---|---|---|---|---|
| **SPW** = Pre-Galvanized | **06** = 6" | **06** = 6" | **SNC** = Solid Non-Flanged Cover | **HB** = Horizontal Bend | **12** = 12" |
| **SHW** = Hot-Dip Galvanized | **09** = 9" | **09** = 9" | **SFC** = Solid Flanged Cover | **HT** = Horizontal Tee | **24** = 24" |
| **SSW** = Stainless Steel 316 | **12** = 12" | **12** = 12" | **VFC** = Ventilated Flanged Cover | **HX** = Horizontal Cross | **36** = 36" |
| | **18** = 18" | **18** = 18" | | **VI** = Vertical Inside Bend | **48** = 48" |
| | **24** = 24" | **24** = 24" | | **VTU** = Vertical Tee Down | |
| | **30** = 30" | **30** = 30" | | **HYR** = Horizontal Wye Right | |
| | **36** = 36" | **36** = 36" | | **HYL** = Horizontal Wye Left | |

** Radius not required for HSR, HLR, HRR.*

**SPW 4 12 SNC VO 90 24**

| Material Prefix | Side Rail Height | Width | Cover Type | Fitting Type | Degree* | Radius |
|---|---|---|---|---|---|---|
| **SPW** = Pre-Galvanized | **3** = 3⅝" | **06** = 6" | **SNC** = Solid Non-Flanged Cover | **VO** = Vertical Outside Bend | **30** = 30° | **12** = 12" |
| **SHW** = Hot-Dip Galvanized | **4** = 4" | **09** = 9" | **SFC** = Solid Flanged Cover | **VTD** = Vertical Tee Down | **45** = 45° | **24** = 24" |
| **SSW** = Stainless Steel 316 | **5** = 5" | **12** = 12" | **VFC** = Ventilated Flanged Cover | **CS** = Cable Support Fitting | **60** = 60° | **36** = 36" |
| | **6** = 6" | **18** = 18" | | | **90** = 90° | **48** = 48" |
| | **7** = 7" | **24** = 24" | | | | |
| | | **30** = 30" | | | | |
| | | **36** = 36" | | | | |

** Required for VO only.*



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# Steel Tray

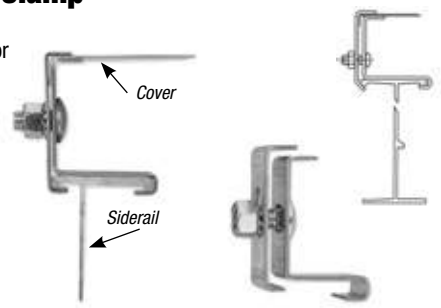
### Quantity of Standard Cover Clamps Required

| | |
|---|---|
| Straight Section (6 ft.) | 4 pcs. |
| Straight Section (12 ft.) | 6 pcs. |
| Horizontal and Vertical Bends | 4 pcs. |
| Tees | 6 pcs. |
| Crosses | 8 pcs. |

***Note**: When using the Heavy-Duty Cover Clamp, only half the quantity of pieces are required.*

## Raised Cover Clamp

- Designed to raise cover above tray for added ventilation




| CAT. NO. | MATERIAL |
|---|---|
| SPW(+)RCC | Pre-Galvanized |
| SSW(+)RCC | Stainless Steel 316 |

*(+) Insert cover offset: 1", 2" or 3".*

## Peaked End Cap

- Used for transition between peaked covers to straight covers

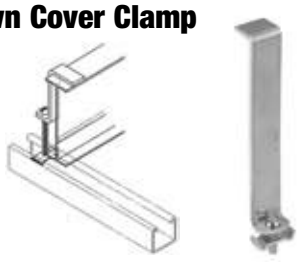


| CAT. NO. | MATERIAL |
|---|---|
| SPW(*)PEC | Pre-Galvanized |
| SHW(*)PEC | Hot-Dip Galvanized |
| SSW(*)PEC | Stainless Steel 316 |

*(*) Insert tray width: 06", 09", 12", 18", 24", 30" or 36".*

## Combination Hold-Down Cover Clamp

- Designed to secure flat and flanged covers with hold down feature

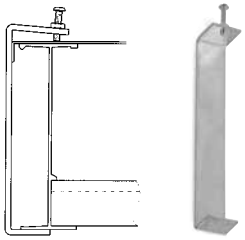


| CAT. NO. | MATERIAL |
|---|---|
| SPW-(*)-CCC | Pre-Galvanized |
| SSW-(*)-CCC | Stainless Steel 316 |

*(*) Insert side rail height: 3", 4", 5", 6" or 7".*

## Cover Clamp

- Rigid indoor cover clamp for flat and flanged covers



| CAT. NO. | MATERIAL |
|---|---|
| SPW-(*)-SCC | Pre-Galvanized |
| SSW-(*)-SCC | Stainless Steel 316 |

*(*) Insert side rail height: 3", 4", 5", 6" or 7".*

## Heavy-Duty Cover Clamp

- Wrap-around design offers added protection
- Hardware included
- Pre-Galvanized (SPW), Hot-Dip Galvanized (SHW) or Stainless Steel 316 (SSW)



| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-3-(*)-HCC | 3" |
| (PREFIX)-4-(*)-HCC | 4" |
| (PREFIX)-5-(*)-HCC | 5" |
| (PREFIX)-6-(*)-HCC | 6" |
| (PREFIX)-7-(*)-HCC | 7" |

*(*) Insert tray width: 06", 09", 12", 18", 24", 30" or 36".*

## Heavy-Duty Peaked Cover Clamp

- Fits peaked cover for outdoor applications
- Hardware included
- Pre-Galvanized (SPW), Hot-Dip Galvanized (SHW) or Stainless Steel 316 (SSW)



| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-3-(*)-HPC | 3" |
| (PREFIX)-4-(*)-HPC | 4" |
| (PREFIX)-5-(*)-HPC | 5" |
| (PREFIX)-6-(*)-HPC | 6" |
| (PREFIX)-7-(*)-HPC | 7" |

*(*) Insert tray width: 06", 09", 12", 18", 24", 30" or 36".*

## Cover Joint Strip

- Strip used for joining covers end to end



| CAT. NO. | MATERIAL |
|---|---|
| SPW-(*)-SCS | Pre-Galvanized |

*(*) Insert tray width: 06", 09", 12", 18", 24", 30" or 36".*
***Note**: Material is plastic.*

# Steel Tray

## Splice Plate



- Packaged in pairs with zinc-plated hardware
- Available in Pre-Galvanized (SPW), Hot-Dip Galvanized (SHW) and Stainless Steel 316 (SSW)

| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-3-SSP | 3" |
| (PREFIX)-4-SSP | 4" |
| (PREFIX)-5-SSP | 5" |
| (PREFIX)-6-SSP | 6" |
| (PREFIX)-7-SSP | 7" |

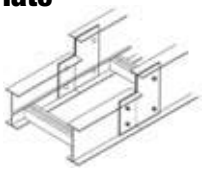
## Expansion Splice Plate



- Enables 1" expansion or contraction of tray system
- Packaged in pairs with hardware
- Available in Pre-Galvanized (SPW), Hot-Dip Galvanized (SHW) and Stainless Steel 316 (SSW)

| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-3-ESP | 3" |
| (PREFIX)-4-ESP | 4" |
| (PREFIX)-5-ESP | 5" |
| (PREFIX)-6-ESP | 6" |
| (PREFIX)-7-ESP | 7" |

## Step-Down Splice Plate





- Connects side rails of different heights
- Hardware included

| CAT. NO. | MATERIAL PREFIX |
|---|---|
| (PREFIX)-(*)-(**)-SDS | SPW<br>SHW<br>SSW |

*(*) Insert side rail height 1. (**) Insert side rail height 2.*
***Note:*** *Side rail height 1 is greater than side rail height 2.*

## Horizontal Adjustable Plate



- Adjustable hinge plates provide maximum horizontal installation flexibility
- Furnished in pairs with hardware
- Available in Pre-Galvanized (SPW), Hot-Dip Galvanized (SHW) and Stainless Steel 316 (SSW)

| CAT. NO. | FOR TRAY WIDTHS |
|---|---|
| (PREFIX)-(*)06HAP | 6" |
| (PREFIX)-(*)09HAP | 9" |
| (PREFIX)-(*)12HAP | 12" |
| (PREFIX)-(*)18HAP | 18" |
| (PREFIX)-(*)24HAP | 24" |
| (PREFIX)-(*)30HAP | 30" |
| (PREFIX)-(*)36HAP | 36" |
| (PREFIX)-(*)42HAP | 42" |

*(*) Insert side rail height.*

## Vertical Adjustable Plate



- Provide maximum flexibility for changes in elevation
- Packaged in pairs with hardware
- Available in Pre-Galvanized (SPW), Hot-Dip Galvanized (SHW) and Stainless Steel 316 (SSW)

| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-3-VSP | 3" |
| (PREFIX)-4-VSP | 4" |
| (PREFIX)-5-VSP | 5" |
| (PREFIX)-6-VSP | 6" |
| (PREFIX)-7-VSP | 7" |

## Box to Tray Plates



- Secure tray to electrical panels or boxes, walls or end supports
- Packaged in pairs with hardware
- Available in Pre-Galvanized (SPW), Hot-Dip Galvanized (SHW) and Stainless Steel 316 (SSW)

| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-3-BSP | 3" |
| (PREFIX)-4-BSP | 4" |
| (PREFIX)-5-BSP | 5" |
| (PREFIX)-6-BSP | 6" |
| (PREFIX)-7-BSP | 7" |

## Closure End Plate



- Provides closure for any tray end
- Hardware included
- Available in Pre-Galvanized (SPW), Hot-Dip Galvanized (SHW) and Stainless Steel 316 (SSW)

| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-3-(*)-CEP | 3" |
| (PREFIX)-4-(*)-CEP | 4" |
| (PREFIX)-5-(*)-CEP | 5" |
| (PREFIX)-6-(*)-CEP | 6" |
| (PREFIX)-7-(*)-CEP | 7" |

** Insert tray width.*

## Reducing Splice Plate



- Used in pairs to provide a straight reduction or used with a Standard Splice Plate for an offset reduction
- One per package with hardware
- Available in Pre-Galvanized (SPW), Hot-Dip Galvanized (SHW) and Stainless Steel 316 (SSW)

| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-3-(*)-RSP | 3" |
| (PREFIX)-4-(*)-RSP | 4" |
| (PREFIX)-5-(*)-RSP | 5" |
| (PREFIX)-6-(*)-RSP | 6" |
| (PREFIX)-7-(*)-RSP | 7" |

** For offset reduction: Insert width to be reduced.*
*For straight reduction: Insert ½ width to be reduced (two required).*
*Example: SPW-5-03-RSP = 3" offset reducer.*



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# Steel Tray

## Standard Hold-Down Clamp



- Designed for most indoor installations
- Easy to use and install
- Order ¼" hardware separately

| CAT. NO. | MATERIAL PREFIX |
|---|---|
| (PREFIX)-SHC | SPW |
| | SSW |
| (PREFIX)-SHC-HDW | SPW |
| | SSW |

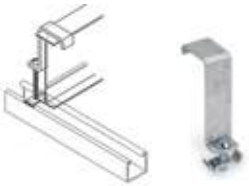
***Note:*** *HDW = Supplied complete with ¼" hardware.*

## Combination Hold-Down/ Expansion Clamp



| CAT. NO. | MATERIAL PREFIX |
|---|---|
| (PREFIX)-HEC | SPW |
| | SHW |
| | SSW |

## Hold-Down Clamp



- Available in Pre-Galvanized (SPW) and Stainless Steel 316 (SSW)

| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-3-HDC | 3" |
| (PREFIX)-4-HDC | 4" |
| (PREFIX)-5-HDC | 5" |
| (PREFIX)-6-HDC | 6" |
| (PREFIX)-7-HDC | 7" |

***Note:*** *Hardware included.*

## Steel Tray Hardware



- Square shoulder self-positioning carriage bolt

| CAT. NO. | DESCRIPTION | MATERIAL |
|---|---|---|
| SPW-1/4-CB | ¼" Carriage Bolt | Zinc-Plated Steel |
| SPW-3/8-CB | ⅜" Carriage Bolt | Zinc-Plated Steel |
| SPW-1/4-HN | ¼" Hex Nut | Zinc-Plated Steel |
| SPW-3/8-HN | ⅜" Hex Nut | Zinc-Plated Steel |
| SSW-1/4-CB | ¼" Carriage Bolt | 316 Stainless |
| SSW-1/4-HN | ¼" Hex Nut | 316 Stainless |
| SSW-3/8-CB | ⅜" Carriage Bolt | 316 Stainless |
| SSW-3/8-HN | ⅜" Hex Nut | 316 Stainless |
| SSW-3/8-HWK* | 316 Stainless Steel Hardware Kit | 316 Stainless |

** Contains eight nuts, eight bolts, eight lockwashers.*

## Self-Drilling Tapping Screw



| CAT. NO. | MATERIAL |
|---|---|
| SPW-10-SCR | Zinc-Plated Steel |

## Cable Tray Guide



- Expansion guide for single or double runs of cable tray
- No need to field drill channel or I-beam

| CAT. NO. | MATERIAL |
|---|---|
| SPW-CTG | Zinc-Plated Steel |
| SHW-CTG | Steel Hot Dip |
| SSW-CTG | Stainless Steel |

## Cable Tray Clamp



- Clamps for single run of cable tray
- No need to field drill channel or I-beam

| CAT. NO. | MATERIAL |
|---|---|
| SPW-CTC | Zinc-Plated Steel |
| SHW-CTC | Steel Hot Dip |
| SSW-CTC | Stainless Steel |

## Vertical Tray Hanger





| CAT. NO. | MATERIAL PREFIX | SIDE RAIL HEIGHT |
|---|---|---|
| (PREFIX)-(*)-VTH | SPW | 3" |
| | SHW | 4" |
| | SSW | 5" |
| | | 6" |
| | | 7" |

*(*) Insert side rail height.*

## Steel Tray

### Drop-Out

- Provide a smooth radiused surface at any position on the tray or trough bottom
- Standard radius is 4"
- Available in Pre-Galvanized (SPW), Hot-Dip Galvanized (SHW) and Stainless Steel 316 (SSW)



| CAT. NO. | TRAY WIDTH |
|---|---|
| (PREFIX)-(*)-DO<br>(PREFIX)-(*)-DOS | 06, 09, 12, 18, 24, 30, 36 |

*(*) Insert width of tray.*

*DOS is solid tray.*

### Wall Penetration Sleeve

- Designed to pass through walls and fire walls
- Hardware included



| CAT. NO. | MATERIAL PREFIX | SIDE RAIL HEIGHT | TRAY WIDTH |
|---|---|---|---|
| (PREFIX)-(*)-(**)-WPS | SPW | 3" | 06 |
| | SHW | 4" | 09 |
| | SSW | 5" | 12 |
| | | 6" | 18 |
| | | 7" | 24 |
| | | | 30 |
| | | | 36 |

*(*) Insert side rail height. (**) Insert width of tray.*

***Note:*** *Not fire rated. Fire stop not included.*

### Frame-Type Tray to Box Plate

- Secures tray to electrical enclosures and panels
- Hardware included



| CAT. NO. | MATERIAL PREFIX | SIDE RAIL HEIGHT | TRAY WIDTH |
|---|---|---|---|
| (PREFIX)-(*)-(**)-FBP | SPW | 3" | 06 |
| | SHW | 4" | 09 |
| | SSW | 5" | 12 |
| | | 6" | 18 |
| | | 7" | 24 |
| | | | 30 |
| | | | 36 |

*(*) Insert side rail height. (**) Insert width of tray.*

### Nylon Expansion Pad

- Allows for thermal expansion and contraction of cable trays over supports



| CAT. NO. | MATERIAL |
|---|---|
| ABW-NSP | Natural Nylon |



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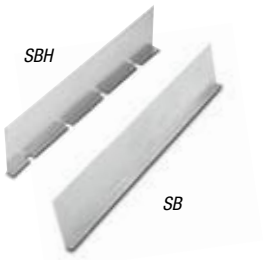
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# Steel Tray

## Barrier Strips

- Provide a method of separating cables in tray and trough systems
- Easily installed using supplied hardware
- 72" Barriers can be used with horizontal fittings
- Available in Pre-Galvanized (SPW), Hot-Dip Galvanized (SHW) and Stainless Steel 316 (SSW)




| CAT. NO. | SIDE RAIL HEIGHT | LENGTH |
|---|---|---|
| (PREFIX)-3-SBH-72 | 3" | 72" |
| (PREFIX)-4-SBH-72 | 4" | 72" |
| (PREFIX)-5-SBH-72 | 5" | 72" |
| (PREFIX)-6-SBH-72 | 6" | 72" |
| (PREFIX)-7-SBH-72 | 7" | 72" |
| (PREFIX)-3-SB | 3" | 144" |
| (PREFIX)-4-SB | 4" | 3m |
| (PREFIX)-5-SB | 5" | 3m |
| (PREFIX)-6-SB | 6" | 3m |
| (PREFIX)-7-SB | 7" | 3m |

***Notes:*** *72" barriers provided with three SPW10SCR144, 3m barriers provided with self-drilling tapping screw (SPW10SCR).*
*72" length, three screws; 3m length, five screws; 144" length, six screws.*
*SHW barriers are only available in 72" or 1500mm.*

## Inside/Outside Vertical Bend Barriers

- Fit all standard steel vertical bends
- Provided with hardware
- Available in Pre-Galvanized (SPW), Hot-Dip Galvanized (SHW) and Stainless Steel 316 (SSW)



| INSIDE BEND CAT. NO. | OUTSIDE BEND CAT. NO. | SIDE RAIL HEIGHT |
|---|---|---|
| (PREFIX)-3-VIB-(*)-(+) | (PREFIX)-3-VOB-(*)-(+) | 3" |
| (PREFIX)-4-VIB-(*)-(+) | (PREFIX)-4-VOB-(*)-(+) | 4" |
| (PREFIX)-5-VIB-(*)-(+) | (PREFIX)-5-VOB-(*)-(+) | 5" |
| (PREFIX)-6-VIB-(*)-(+) | (PREFIX)-6-VOB-(*)-(+) | 6" |
| (PREFIX)-7-VIB-(*)-(+) | (PREFIX)-7-VOB-(*)-(+) | 7" |

*(*) Insert bend degree. (+) Insert bend radius.*

## Barrier Strip Clamp

- Barrier Strip Clamps mount Barrier Strips to ladder rungs and ventilated trough bottoms
- Mounting hardware supplied



| CAT. NO. | MATERIAL PREFIX |
|---|---|
| (PREFIX)-BSC | SPW |
| | SSW |

## Barrier Strip Splice

- Alignment splice for joining connecting Barrier Strips



| CAT. NO. | MATERIAL |
|---|---|
| ABW-BSS | Plastic |

## One-Piece Tray

### 2" Straight Section, Series AL, SP, SH, SS — Solid and Vented

**AL U1 2 12 V - 3**

| Material | Series | Side Rail Height | Width | Bottom Type | Length |
|---|---|---|---|---|---|
| **AL** = Aluminum<br>**SP** = Pre-Galvanized<br>**SH** = Hot-Dip Galvanized<br>**SS** = Stainless Steel 316 | **U1** = Unit or One-Piece | **2"** | **06** = 6"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **V** = Ventilated Trough<br>**S** = Solid Trough | **3** = 3m* |

** Standard straight length is 10 feet nominal = actually 3m. 1m = 3.2808 ft. 3m = 9.842 ft.*

**Support Span**

| SERIES | | FEET 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|
| ALU12 | Load (lb./ft.) | 69 | 39 | 25 | — | — | — | — | — |
| | Deflection (in.) | .382 | .730 | 1.000 | — | — | — | — | — |
| | Deflection Factor | .006 | .019 | .040 | — | — | — | — | — |
| SPU12 SHU12 | Load (lb./ft.) | 69 | 39 | 25 | — | — | — | — | — |
| | Deflection (in.) | .382 | .730 | 1.000 | — | — | — | — | — |
| | Deflection Factor | .006 | .019 | .040 | — | — | — | — | — |
| SSU12 | Load (lb./ft.) | 69 | 39 | 25 | — | — | — | — | — |
| | Deflection (in.) | .382 | .730 | 1.000 | — | — | — | — | — |
| | Deflection Factor | .006 | .019 | .040 | — | — | — | — | — |

**Specifications**

- CSA — All: A
- Deflection — Based on 36"-wide cable trays with trays supported as simple spans and deflection measured at the midpoint; continuous spans may reduce deflection by as much as 50%
- Deflection at Any Length — For lighter loads, multiply Load x Deflection Factor

### 3⅝" Straight Section, Series AL, SP, SH, SS — Solid and Vented

**AL U1 3 12 V - 3**

| Material | Series | Side Rail Height | Width | Bottom Type | Length |
|---|---|---|---|---|---|
| **AL** = Aluminum<br>**SP** = Pre-Galvanized<br>**SH** = Hot-Dip Galvanized<br>**SS** = Stainless Steel 316 | **U1** = Unit or One-Piece | **3⅝"** | **06** = 6"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **V** = Ventilated Trough<br>**S** = Solid Trough | **3** = 3m* |

** Standard straight length is 10 feet nominal = actually 3m. 1m = 3.2808 ft. 3m = 9.842 ft.*

**Support Span**

| SERIES | | FEET 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|
| ALU13 | Load (lb./ft.) | 180 | 101 | 65 | — | — | — | — | — |
| | Deflection (in.) | .382 | .430 | .540 | — | — | — | — | — |
| | Deflection Factor | .002 | .004 | .008 | — | — | — | — | — |
| SPU13 SHU13 | Load (lb./ft.) | 180 | 101 | 65 | — | — | — | — | — |
| | Deflection (in.) | .125 | .250 | .320 | — | — | — | — | — |
| | Deflection Factor | .001 | .002 | .005 | — | — | — | — | — |
| SSU13 | Load (lb./ft.) | 180 | 101 | 65 | — | — | — | — | — |
| | Deflection (in.) | .125 | .250 | .320 | — | — | — | — | — |
| | Deflection Factor | .001 | .002 | .005 | — | — | — | — | — |

**Specifications**

- NEMA Rating — All: 8C
- CSA — All: C1
- Deflection — Based on 36"-wide cable trays with trays supported as simple spans and deflection measured at the midpoint; continuous spans may reduce deflection by as much as 50%
- Deflection at Any Length — For lighter loads, multiply Load x Deflection Factor



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## One-Piece Tray

# 6" Straight Section, Series AL, SP, SH, SS — Solid and Vented

**AL U1 6 12 V - 3**

| Material | Series | Side Rail Height | Width | Bottom Type | Length |
|---|---|---|---|---|---|
| **AL** = Aluminum<br>**SP** = Pre-Galvanized<br>**SH** = Hot-Dip Galvanized<br>**SS** = Stainless Steel 316 | **U1** = Unit or One-Piece | **6"** | **06** = 6"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **V** = Ventilated Trough<br>**S** = Solid Trough | **3** = 3m* |

** Standard straight length is 10 feet nominal = actually 3m. 1m = 3.2808 ft. 3m = 9.842 ft.*

### Support Span

| SERIES | | FEET 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|
| ALU16 | Load (lb./ft.) | 180 | 101 | 65 | — | — | — | — | — |
| | Deflection (in.) | .082 | .128 | .160 | — | — | — | — | — |
| | Deflection Factor | .000 | .001 | .002 | — | — | — | — | — |
| SPU16 SHU16 | Load (lb./ft.) | 180 | 101 | 65 | — | — | — | — | — |
| | Deflection (in.) | .125 | .250 | .320 | — | — | — | — | — |
| | Deflection Factor | .001 | .002 | .005 | — | — | — | — | — |
| SSU16 | Load (lb./ft.) | 180 | 101 | 65 | — | — | — | — | — |
| | Deflection (in.) | .125 | .250 | .320 | — | — | — | — | — |
| | Deflection Factor | .001 | .002 | .005 | — | — | — | — | — |

### Specifications

- NEMA Rating — All: 8C
- CSA — All: C1
- Deflection — Based on 36"-wide cable trays with trays supported as simple spans and deflection measured at the midpoint; continuous spans may reduce deflection by as much as 50%
- Deflection at Any Length — For lighter loads, multiply Load x Deflection Factor

# Fittings Number Selection

**SHUF 3 06 V HB 90 12**

| Material Prefix | Side Rail Depth | Width | Bottom Type | Fitting Type | Angle* | Nominal Radius† |
|---|---|---|---|---|---|---|
| **ALUF** = Aluminum<br>**SPUF** = Pre-Galvanized Fittings<br>**SHUF** = Hot-Dip Galvanized Fittings<br>**SSUF** = Stainless Steel 316 | **2** = 2"<br>**3** = 3⅝"<br>**6** = 6" | **06** = 6"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **V** = Ventilated Trough<br>**S** = Solid Trough | **HB** = Horizontal Bend<br>**HT** = Horizontal Tee<br>**HX** = Horizontal Cross<br>**VI** = Vertical Inside Bend<br>**VO** = Vertical Outside Bend<br>**HYR** = Horizontal Wye Right<br>**HYL** = Horizontal Wye Left<br>**RT** = Horizontal Reducing Tee<br>**ET** = Horizontal Expanding Tee<br>**EX** = Horizontal Expand Cross<br>**HLR** = Horizontal Left Reducer<br>**HSR** = Horizontal Straight Reducer<br>**HRR** = Horizontal Right Reducer<br>**VTU** = Vertical Tee Up<br>**VTD** = Vertical Tee Down<br>**CS** = Cable Support Fitting | **30** = 30°<br>**45** = 45°<br>**60** = 60°<br>**90** = 90° | **12** = 12"<br>**24** = 24"<br>**36** = 36" |

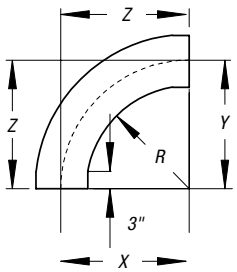
* *Angle is required for HB, VI, VO only.*

† *Radius is not required for the following Fitting Types: HYR, HYL, HLR, HRR, HSR.*

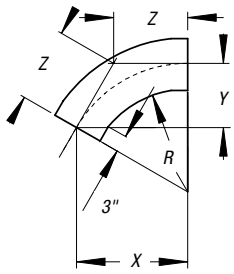
## One-Piece Tray



90° Horizontal Bend




90° Horizontal Bend




60° Horizontal Bend

### Catalog Numbering System

| ALUF | - | 3 | - | 24 | - | V | - | HB | 90 | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Prefix ALUF, SPUF, SHUF, SSUF | | Side Rail Depth | | Width | | Bottom Style | | Fitting Style | Angle | | Nominal Radius |

### Selection Guide

**Prefix:** ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

**Inside Tray Widths:** 6, 9, 12, 18, 24, 30, 36

**Angle:** 90°, 60°

**Nominal Radius:** 12, 24, 36

**Bottom Styles:** V – Ventilated, S – Solid

**Side Rail Depth:** 2", 3", 6"

### 90° Horizontal Bends

| NOMINAL RADIUS | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z |
| 12 | 06 | PREFIX-(†)-06-(*)-HB90-12 | 15 | 15 | 15 |
| | 12 | PREFIX-(†)-12-(*)-HB90-12 | 18 | 18 | 18 |
| | 18 | PREFIX-(†)-18-(*)-HB90-12 | 21 | 21 | 21 |
| | 24 | PREFIX-(†)-24-(*)-HB90-12 | 24 | 24 | 24 |
| | 30 | PREFIX-(†)-30-(*)-HB90-12 | 27 | 27 | 27 |
| | 36 | PREFIX-(†)-36-(*)-HB90-12 | 30 | 30 | 30 |
| 24 | 06 | PREFIX-(†)-06-(*)-HB90-24 | 27 | 27 | 27 |
| | 12 | PREFIX-(†)-12-(*)-HB90-24 | 30 | 30 | 30 |
| | 18 | PREFIX-(†)-18-(*)-HB90-24 | 33 | 33 | 33 |
| | 24 | PREFIX-(†)-24-(*)-HB90-24 | 36 | 36 | 36 |
| | 30 | PREFIX-(†)-30-(*)-HB90-24 | 39 | 39 | 39 |
| | 36 | PREFIX-(†)-36-(*)-HB90-24 | 42 | 42 | 42 |
| 36 | 06 | PREFIX-(†)-06-(*)-HB90-36 | 39 | 39 | 39 |
| | 12 | PREFIX-(†)-12-(*)-HB90-36 | 42 | 42 | 42 |
| | 18 | PREFIX-(†)-18-(*)-HB90-36 | 45 | 45 | 45 |
| | 24 | PREFIX-(†)-24-(*)-HB90-36 | 48 | 48 | 48 |
| | 30 | PREFIX-(†)-30-(*)-HB90-36 | 51 | 51 | 51 |
| | 36 | PREFIX-(†)-36-(*)-HB90-36 | 54 | 54 | 54 |

### 60° Horizontal Bends

| NOMINAL RADIUS | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z |
| 12 | 06 | PREFIX-(†)-06-(*)-HB60-12 | 14⅞ | 8⅝ | 9 15/16 |
| | 12 | PREFIX-(†)-12-(*)-HB60-12 | 17½ | 10⅛ | 11 1/16 |
| | 18 | PREFIX-(†)-18-(*)-HB60-12 | 20 1/16 | 11⅝ | 13⅜ |
| | 24 | PREFIX-(†)-24-(*)-HB60-12 | 22 11/16 | 13⅛ | 15⅛ |
| | 30 | PREFIX-(†)-30-(*)-HB60-12 | 25 5/16 | 14⅝ | 16⅞ |
| | 36 | PREFIX-(†)-36-(*)-HB60-12 | 27⅞ | 16⅛ | 18 9/16 |
| 24 | 06 | PREFIX-(†)-06-(*)-HB60-24 | 25 5/16 | 14⅝ | 16⅞ |
| | 12 | PREFIX-(†)-12-(*)-HB60-24 | 27⅞ | 16⅛ | 18 9/16 |
| | 18 | PREFIX-(†)-18-(*)-HB60-24 | 30½ | 17⅝ | 20 5/16 |
| | 24 | PREFIX-(†)-24-(*)-HB60-24 | 33 1/16 | 19⅛ | 22 1/16 |
| | 30 | PREFIX-(†)-30-(*)-HB60-24 | 35 11/16 | 20⅝ | 23 13/16 |
| | 36 | PREFIX-(†)-36-(*)-HB60-24 | 38¼ | 22⅛ | 25½ |
| 36 | 06 | PREFIX-(†)-06-(*)-HB60-36 | 35 11/16 | 20⅝ | 23 13/16 |
| | 12 | PREFIX-(†)-12-(*)-HB60-36 | 38¼ | 22⅛ | 25½ |
| | 18 | PREFIX-(†)-18-(*)-HB60-36 | 40⅞ | 23⅝ | 27⅞ |
| | 24 | PREFIX-(†)-24-(*)-HB60-36 | 43½ | 25⅛ | 29 |
| | 30 | PREFIX-(†)-30-(*)-HB60-36 | 46 1/16 | 26⅝ | 30 1/16 |
| | 36 | PREFIX-(†)-36-(*)-HB60-36 | 48 11/16 | 28⅛ | 32 7/16 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Includes one pair of splice plates with hardware.*



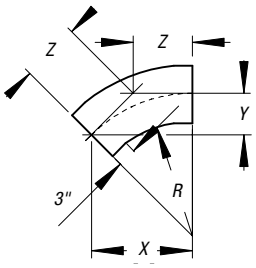
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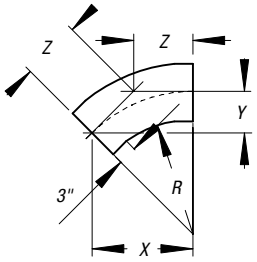
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## One-Piece Tray




*45° Horizontal Bend*




*30° Horizontal Bend*

### Catalog Numbering System

| ALUF | - | 3 | - | 24 | - | V | - | HB | 45 | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Prefix ALUF, SPUF, SHUF, SSUF | | Side Rail Depth | | Width | | Bottom Style | | Fitting Style | Angle | | Nominal Radius |

### Selection Guide

**Prefix:** ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

**Inside Tray Widths:** 6, 9, 12, 18, 24, 30, 36

**Angle:** 45°, 30°

**Nominal Radius:** 12, 24, 36

**Bottom Styles:** V – Ventilated, S – Solid

**Side Rail Depth:** 2", 3", 6"

### 45° Horizontal Bends

| NOMINAL RADIUS | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z |
| 12 | 06 | PREFIX-(†)-06-(*)-HB45-12 | 13⅜ | 5⅝ | 8 |
| | 12 | PREFIX-(†)-12-(*)-HB45-12 | 15¾ | 6½ | 9⅜₁₆ |
| | 18 | PREFIX-(†)-18-(*)-HB45-12 | 17⅞ | 7⅜ | 10⁷⁄₁₆ |
| | 24 | PREFIX-(†)-24-(*)-HB45-12 | 20 | 8¼ | 11¹¹⁄₁₆ |
| | 30 | PREFIX-(†)-30-(*)-HB45-12 | 22¹⁄₁₆ | 9⅛ | 12¹⁵⁄₁₆ |
| | 36 | PREFIX-(†)-36-(*)-HB45-12 | 24³⁄₁₆ | 10 | 14³⁄₁₆ |
| 24 | 06 | PREFIX-(†)-06-(*)-HB45-24 | 22¹⁄₁₆ | 9⅛ | 12¹⁵⁄₁₆ |
| | 12 | PREFIX-(†)-12-(*)-HB45-24 | 24³⁄₁₆ | 10 | 14³⁄₁₆ |
| | 18 | PREFIX-(†)-18-(*)-HB45-24 | 26⁵⁄₁₆ | 10¹⁵⁄₁₆ | 15⁷⁄₁₆ |
| | 24 | PREFIX-(†)-24-(*)-HB45-24 | 28⁷⁄₁₆ | 11¹³⁄₁₆ | 16¹¹⁄₁₆ |
| | 30 | PREFIX-(†)-30-(*)-HB45-24 | 30⁹⁄₁₆ | 12¹¹⁄₁₆ | 17¹⁵⁄₁₆ |
| | 36 | PREFIX-(†)-36-(*)-HB45-24 | 32¹¹⁄₁₆ | 13⅜ | 19⅛ |
| 36 | 06 | PREFIX-(†)-06-(*)-HB45-36 | 30⁹⁄₁₆ | 12¹¹⁄₁₆ | 17¹⁵⁄₁₆ |
| | 12 | PREFIX-(†)-12-(*)-HB45-36 | 32¹¹⁄₁₆ | 13⅜ | 19⅛ |
| | 18 | PREFIX-(†)-18-(*)-HB45-36 | 34¹³⁄₁₆ | 14⁷⁄₁₆ | 20⅜ |
| | 24 | PREFIX-(†)-24-(*)-HB45-36 | 36¹⁵⁄₁₆ | 15⁵⁄₁₆ | 21⅝ |
| | 30 | PREFIX-(†)-30-(*)-HB45-36 | 39¹⁄₁₆ | 16⅜ | 22⅞ |
| | 36 | PREFIX-(†)-36-(*)-HB45-36 | 41³⁄₁₆ | 17¹⁄₁₆ | 24⅛ |

### 30° Horizontal Bends

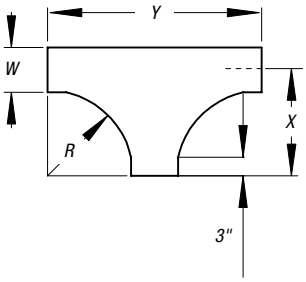
| NOMINAL RADIUS | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z |
| 12 | 06 | PREFIX-(†)-06-(*)-HB30-12 | 11⅝ | 3⅛ | 6³⁄₁₆ |
| | 12 | PREFIX-(†)-12-(*)-HB30-12 | 13½ | 3½ | 7 |
| | 18 | PREFIX-(†)-18-(*)-HB30-12 | 14⅝ | 3¹⁵⁄₁₆ | 7¹³⁄₁₆ |
| | 24 | PREFIX-(†)-24-(*)-HB30-12 | 16⅛ | 4⅝ | 8⅝ |
| | 30 | PREFIX-(†)-30-(*)-HB30-12 | 17⅝ | 4¹¹⁄₁₆ | 9⁷⁄₁₆ |
| | 36 | PREFIX-(†)-36-(*)-HB30-12 | 19⅛ | 5⅛ | 10¼ |
| 24 | 06 | PREFIX-(†)-06-(*)-HB30-24 | 17⅝ | 4¹¹⁄₁₆ | 9⁷⁄₁₆ |
| | 12 | PREFIX-(†)-12-(*)-HB30-24 | 19⅛ | 5⁵⁄₁₆ | 10⁵⁄₁₆ |
| | 18 | PREFIX-(†)-18-(*)-HB30-24 | 20⅝ | 5⅝ | 11¹⁄₁₆ |
| | 24 | PREFIX-(†)-24-(*)-HB30-24 | 22⅛ | 5¹⁵⁄₁₆ | 11¹³⁄₁₆ |
| | 30 | PREFIX-(†)-30-(*)-HB30-24 | 23⅝ | 6⅝ | 12¹⁰⁄₁₆ |
| | 36 | PREFIX-(†)-36-(*)-HB30-24 | 25⅛ | 6¹³⁄₁₆ | 13⁷⁄₁₆ |
| 36 | 06 | PREFIX-(†)-06-(*)-HB30-36 | 23⅝ | 6⅝ | 12⅝ |
| | 12 | PREFIX-(†)-12-(*)-HB30-36 | 25⅛ | 6¾ | 13⁷⁄₁₆ |
| | 18 | PREFIX-(†)-18-(*)-HB30-36 | 26⅝ | 7¼ | 14¼ |
| | 24 | PREFIX-(†)-24-(*)-HB30-36 | 28⅛ | 7½ | 15¹⁄₁₆ |
| | 30 | PREFIX-(†)-30-(*)-HB30-36 | 29⅝ | 7¹⁵⁄₁₆ | 15⅞ |
| | 36 | PREFIX-(†)-36-(*)-HB30-36 | 31⅛ | 8⅝ | 16¹¹⁄₁₆ |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Includes one pair of splice plates with hardware.*

## One-Piece Tray








### Catalog Numbering System

| ALUF | - | 3 | - | 24 | - | V | - | HT | 12 |
|---|---|---|---|---|---|---|---|---|---|
| Prefix ALUF, SPUF, SHUF, SSUF | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Nominal Radius |

### Selection Guide

**Prefix:** ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

**Inside Tray Widths:** 6, 12, 18, 24, 30, 36

**Nominal Radius:** 12, 24, 36

**Bottom Styles:** L – Ladder, V – Ventilated, S – Solid

**Side Rail Depth:** 2", 3", 6"

### Horizontal Tees

| NOMINAL RADIUS | | | DIMENSIONS | |
|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y |
| 12 | 06 | PREFIX-(†)-06-(*)-HT12 | 15 | 30 |
| | 12 | PREFIX-(†)-12-(*)-HT12 | 18 | 36 |
| | 18 | PREFIX-(†)-18-(*)-HT12 | 21 | 42 |
| | 24 | PREFIX-(†)-24-(*)-HT12 | 24 | 48 |
| | 30 | PREFIX-(†)-30-(*)-HT12 | 27 | 54 |
| | 36 | PREFIX-(†)-36-(*)-HT12 | 30 | 60 |
| 24 | 06 | PREFIX-(†)-06-(*)-HT24 | 27 | 54 |
| | 12 | PREFIX-(†)-12-(*)-HT24 | 30 | 60 |
| | 18 | PREFIX-(†)-18-(*)-HT24 | 33 | 66 |
| | 24 | PREFIX-(†)-24-(*)-HT24 | 36 | 72 |
| | 30 | PREFIX-(†)-30-(*)-HT24 | 39 | 78 |
| | 36 | PREFIX-(†)-36-(*)-HT24 | 42 | 84 |
| 36 | 06 | PREFIX-(†)-06-(*)-HT36 | 39 | 78 |
| | 12 | PREFIX-(†)-12-(*)-HT36 | 42 | 84 |
| | 18 | PREFIX-(†)-18-(*)-HT36 | 45 | 90 |
| | 24 | PREFIX-(†)-24-(*)-HT36 | 48 | 96 |
| | 30 | PREFIX-(†)-30-(*)-HT36 | 51 | 102 |
| | 36 | PREFIX-(†)-36-(*)-HT36 | 54 | 108 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Tees include two pairs of splice plates with hardware.*



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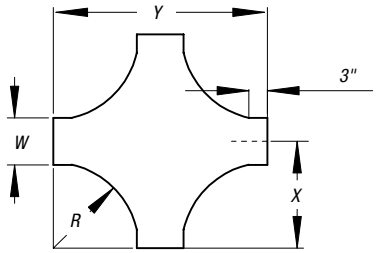
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## One-Piece Tray








### Catalog Numbering System

| ALUF | - | 3 | - | 24 | - | V | - | HX | 12 |
|---|---|---|---|---|---|---|---|---|---|
| Prefix ALUF, SPUF, SHUF, SSUF | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Nominal Radius |

### Selection Guide

**Prefix:** ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

**Inside Tray Widths:** 6, 12, 18, 24, 30, 36

**Nominal Radius:** 12, 24, 36,

**Bottom Styles:** L – Ladder, V – Ventilated, S – Solid

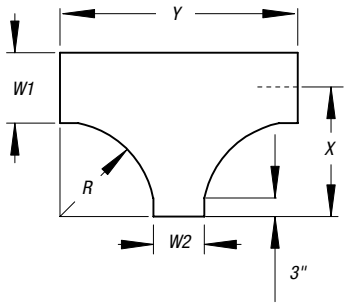
**Side Rail Depth:** 2", 3", 6"

### Horizontal Crosses

| NOMINAL RADIUS | | | DIMENSIONS | |
|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y |
| 12 | 06 | PREFIX-(†)-06-(*)-HX12 | 15 | 30 |
| | 12 | PREFIX-(†)-12-(*)-HX12 | 18 | 36 |
| | 18 | PREFIX-(†)-18-(*)-HX12 | 21 | 42 |
| | 24 | PREFIX-(†)-24-(*)-HX12 | 24 | 48 |
| | 30 | PREFIX-(†)-30-(*)-HX12 | 27 | 54 |
| | 36 | PREFIX-(†)-36-(*)-HX12 | 30 | 60 |
| 24 | 06 | PREFIX-(†)-06-(*)-HX24 | 27 | 54 |
| | 12 | PREFIX-(†)-12-(*)-HX24 | 30 | 60 |
| | 18 | PREFIX-(†)-18-(*)-HX24 | 33 | 66 |
| | 24 | PREFIX-(†)-24-(*)-HX24 | 36 | 72 |
| | 30 | PREFIX-(†)-30-(*)-HX24 | 39 | 78 |
| | 36 | PREFIX-(†)-36-(*)-HX24 | 42 | 84 |
| 36 | 06 | PREFIX-(†)-06-(*)-HX36 | 39 | 78 |
| | 12 | PREFIX-(†)-12-(*)-HX36 | 42 | 84 |
| | 18 | PREFIX-(†)-18-(*)-HX36 | 45 | 90 |
| | 24 | PREFIX-(†)-24-(*)-HX36 | 48 | 96 |
| | 30 | PREFIX-(†)-30-(*)-HX36 | 51 | 102 |
| | 36 | PREFIX-(†)-36-(*)-HX36 | 54 | 108 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Crosses include three pairs of splice plates with hardware.*

## One-Piece Tray




### Catalog Numbering System

| ALUF | - | 3 | - | 24 | - | 12 | - | V | - | RT | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Prefix ALUF, SPUF, SHUF, SSUF | | Side Rail Depth | | Width 1 | | Width 2 | | Bottom Style | | Fitting Type | Nominal Radius |

### Selection Guide

**Prefix**: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

**Tray Widths W1**: 36, 30, 24, 18, 12

**Tray Widths W2**: 30, 24, 18, 12, 6

**Nominal Radius**: 12, 24, 36

**Bottom Styles**: V – Ventilated, S – Solid

**Side Rail Depth**: 2", 3", 6"

### Horizontal Reducing Tees

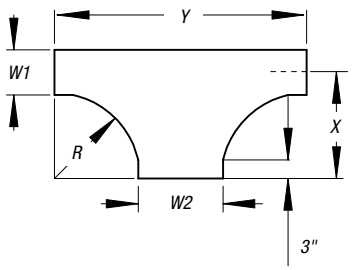
| WIDTHS | | | (+) 12" NOMINAL RADIUS | | (+) 24" NOMINAL RADIUS | | (+) 36" NOMINAL RADIUS | | (+) 48" NOMINAL RADIUS | |
|---|---|---|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | X | Y | X | Y | X | Y | X | Y |
| 36 | 30 | PREFIX-(†)-3630-(*)-RT(+) | 30 | 54 | 42 | 78 | 54 | 102 | 66 | 126 |
| | 24 | PREFIX-(†)-3624-(*)-RT(+) | 30 | 48 | 42 | 72 | 54 | 96 | 66 | 120 |
| | 18 | PREFIX-(†)-3618-(*)-RT(+) | 30 | 42 | 42 | 66 | 54 | 90 | 66 | 114 |
| | 12 | PREFIX-(†)-3612-(*)-RT(+) | 30 | 36 | 42 | 60 | 54 | 84 | 66 | 108 |
| | 06 | PREFIX-(†)-3606-(*)-RT(+) | 30 | 30 | 42 | 54 | 54 | 78 | 66 | 102 |
| 30 | 24 | PREFIX-(†)-3024-(*)-RT(+) | 27 | 48 | 39 | 72 | 51 | 96 | 63 | 120 |
| | 18 | PREFIX-(†)-3018-(*)-RT(+) | 27 | 42 | 39 | 66 | 51 | 90 | 63 | 114 |
| | 12 | PREFIX-(†)-3012-(*)-RT(+) | 27 | 36 | 39 | 60 | 51 | 84 | 63 | 108 |
| | 06 | PREFIX-(†)-3006-(*)-RT(+) | 27 | 30 | 39 | 54 | 51 | 78 | 63 | 102 |
| 24 | 18 | PREFIX-(†)-2418-(*)-RT(+) | 24 | 42 | 36 | 66 | 48 | 90 | 60 | 114 |
| | 12 | PREFIX-(†)-2412-(*)-RT(+) | 24 | 36 | 36 | 60 | 48 | 84 | 60 | 108 |
| | 06 | PREFIX-(†)-2406-(*)-RT(+) | 24 | 30 | 36 | 54 | 48 | 78 | 60 | 102 |
| 18 | 12 | PREFIX-(†)-1812-(*)-RT(+) | 21 | 36 | 33 | 60 | 45 | 84 | 57 | 108 |
| | 06 | PREFIX-(†)-1806-(*)-RT(+) | 21 | 30 | 33 | 54 | 45 | 78 | 57 | 102 |
| 12 | 06 | PREFIX-(†)-1206-(*)-RT(+) | 18 | 30 | 30 | 54 | 42 | 78 | 54 | 102 |

*(†) Insert side rail depth. (*) Insert bottom style. (+) Insert radius (12"–48") to complete Catalog Number. Includes two pairs of splice plates with hardware.*



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## One-Piece Tray




### Catalog Numbering System

| ALUF | - | 3 | - | 24 | - | 30 | - | V | - | ET | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Prefix ALUF, SPUF, SHUF, SSUF | | Side Rail Depth | | Width 1 | | Width 2 | | Bottom Style | | Fitting Type | Nominal Radius |

### Selection Guide

**Prefix**: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

**Tray Widths W1**: 30, 24, 18, 12, 6

**Tray Widths W2**: 36, 30, 24, 18, 12

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: V – Ventilated, S – Solid

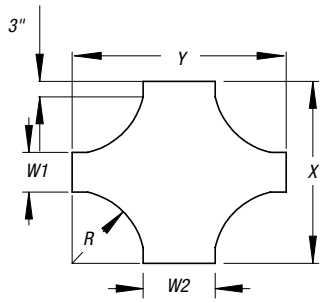
**Side Rail Depth**: 2", 3", 6"

### Horizontal Expanding Tees

| WIDTHS | | | (+) 12" NOMINAL RADIUS | | (+) 24" NOMINAL RADIUS | | (+) 36" NOMINAL RADIUS | | (+) 48" NOMINAL RADIUS | |
|---|---|---|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | X | Y | X | Y | X | Y | X | Y |
| 30 | 36 | **PREFIX-(†)-3036-(*)-ET(+)** | 27 | 60 | 39 | 84 | 51 | 108 | 63 | 132 |
| 24 | 30 | **PREFIX-(†)-2430-(*)-ET(+)** | 24 | 54 | 36 | 78 | 48 | 102 | 60 | 126 |
| | 36 | **PREFIX-(†)-2436-(*)-ET(+)** | 24 | 60 | 36 | 84 | 48 | 108 | 60 | 132 |
| 18 | 24 | **PREFIX-(†)-1824-(*)-ET(+)** | 21 | 48 | 33 | 72 | 45 | 96 | 57 | 120 |
| | 30 | **PREFIX-(†)-1830-(*)-ET(+)** | 21 | 54 | 33 | 78 | 45 | 102 | 57 | 126 |
| | 36 | **PREFIX-(†)-1836-(*)-ET(+)** | 21 | 60 | 33 | 84 | 45 | 108 | 57 | 132 |
| 12 | 18 | **PREFIX-(†)-1218-(*)-ET(+)** | 18 | 42 | 30 | 66 | 42 | 90 | 54 | 114 |
| | 24 | **PREFIX-(†)-1224-(*)-ET(+)** | 18 | 48 | 30 | 72 | 42 | 96 | 54 | 120 |
| | 30 | **PREFIX-(†)-1230-(*)-ET(+)** | 18 | 54 | 30 | 78 | 42 | 102 | 54 | 126 |
| | 36 | **PREFIX-(†)-1236-(*)-ET(+)** | 18 | 60 | 30 | 84 | 42 | 108 | 54 | 132 |
| 06 | 12 | **PREFIX-(†)-0612-(*)-ET(+)** | 15 | 36 | 27 | 60 | 39 | 84 | 51 | 108 |
| | 18 | **PREFIX-(†)-0618-(*)-ET(+)** | 15 | 42 | 27 | 66 | 39 | 90 | 51 | 114 |
| | 24 | **PREFIX-(†)-0624-(*)-ET(+)** | 15 | 48 | 27 | 72 | 39 | 96 | 51 | 120 |
| | 30 | **PREFIX-(†)-0630-(*)-ET(+)** | 15 | 54 | 27 | 78 | 39 | 102 | 51 | 126 |
| | 36 | **PREFIX-(†)-0636-(*)-ET(+)** | 15 | 60 | 27 | 84 | 39 | 108 | 51 | 132 |

*(†) Insert side rail depth. (*) Insert bottom style. (+) Insert radius (12"–48") to complete Catalog Number. Includes two pairs of splice plates with hardware.*

## One-Piece Tray




### Catalog Numbering System

| ALUF | - | 6 | - | 24 | - | 30 | - | V | - | EX | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Prefix ALUF, SPUF, SHUF, SSUF | | Side Rail Depth | | Width 1 | | Width 2 | | Bottom Style | | Fitting Type | Nominal Radius |

### Selection Guide

**Prefix**: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

**Tray Widths W1**: 30, 24, 18, 12, 6

**Tray Widths W2**: 36, 30, 24, 18, 12

**Nominal Radius**: 12, 24, 36, 48

**Bottom Styles**: V – Ventilated, S – Solid

**Side Rail Depth**: 2", 3", 6"

### Horizontal Expanding Crosses

| WIDTHS | | | (+) 12" NOMINAL RADIUS | | (+) 24" NOMINAL RADIUS | | (+) 36" NOMINAL RADIUS | | (+) 48" NOMINAL RADIUS | |
|---|---|---|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | X | Y | X | Y | X | Y | X | Y |
| 30 | 36 | **PREFIX-(†)-3036-(*)-EX-(+)** | 54 | 60 | 78 | 84 | 102 | 108 | 126 | 132 |
| 24 | 30 | **PREFIX-(†)-2430-(*)-EX-(+)** | 48 | 54 | 72 | 78 | 96 | 102 | 120 | 126 |
| | 36 | **PREFIX-(†)-2436-(*)-EX-(+)** | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 |
| 18 | 24 | **PREFIX-(†)-1824-(*)-EX-(+)** | 42 | 48 | 66 | 72 | 90 | 96 | 114 | 120 |
| | 30 | **PREFIX-(†)-1830-(*)-EX-(+)** | 42 | 54 | 66 | 78 | 90 | 102 | 114 | 126 |
| | 36 | **PREFIX-(†)-1836-(*)-EX-(+)** | 42 | 60 | 66 | 84 | 90 | 108 | 114 | 132 |
| 12 | 18 | **PREFIX-(†)-1218-(*)-EX-(+)** | 36 | 42 | 60 | 66 | 84 | 90 | 108 | 114 |
| | 24 | **PREFIX-(†)-1224-(*)-EX-(+)** | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
| | 30 | **PREFIX-(†)-1230-(*)-EX-(+)** | 36 | 54 | 60 | 78 | 84 | 102 | 108 | 126 |
| | 36 | **PREFIX-(†)-1236-(*)-EX-(+)** | 36 | 60 | 60 | 84 | 84 | 108 | 108 | 132 |
| 06 | 12 | **PREFIX-(†)-0612-(*)-EX-(+)** | 30 | 36 | 54 | 60 | 78 | 84 | 102 | 108 |
| | 18 | **PREFIX-(†)-0618-(*)-EX-(+)** | 30 | 42 | 54 | 66 | 78 | 90 | 102 | 114 |
| | 24 | **PREFIX-(†)-0624-(*)-EX-(+)** | 30 | 48 | 54 | 72 | 78 | 96 | 102 | 120 |
| | 30 | **PREFIX-(†)-0630-(*)-EX-(+)** | 30 | 54 | 54 | 78 | 78 | 102 | 102 | 126 |
| | 36 | **PREFIX-(†)-0636-(*)-EX-(+)** | 30 | 60 | 54 | 84 | 78 | 108 | 102 | 132 |

*(†) Insert side rail depth. (*) Insert bottom style. (+) Insert radius (12"–48") to complete Catalog Number. Includes three pairs of splice plates with hardware.*



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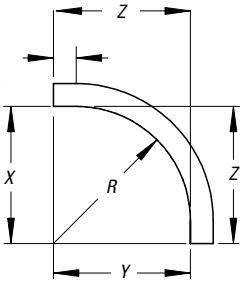
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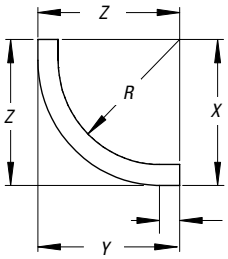
## One-Piece Tray






*90° Outside Bend Ventilated*






*90° Inside Bend Ventilated*

### Catalog Numbering System

| ALUF | - | 3 | - | 24 | - | V | - | VI | 90 | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Prefix ALUF, SPUF, SHUF, SSUF | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

### Selection Guide

**Prefix**: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

**Inside Tray Widths**: 6, 12, 18, 24, 30, 36

**Angle**: 90°

**Nominal Radius**: 12, 24, 36

**Bottom Styles**: V – Ventilated, S – Solid

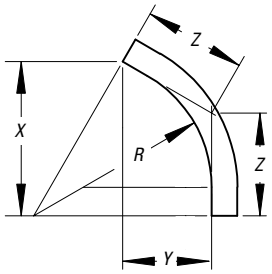
**Side Rail Depth**: 2", 3", 6"

### 90° Vertical Bends

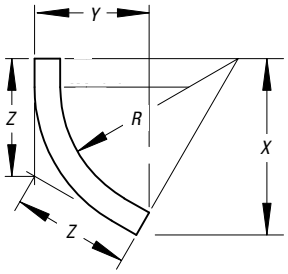
| WIDTHS | | | (+) VO SIDERAIL HEIGHT 2", 3", 6" | | | (+) VI SIDE RAIL HEIGHT 2" | | | 3" | | | 6" | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 06 | PREFIX-(†)-06-(*)-(+)90-12 | 12 | 12 | 12 | 13⅞ | 13⅞ | 13⅞ | 15⅝ | 15⅝ | 15⅝ | 18³⁄₁₆ | 18³⁄₁₆ | 18³⁄₁₆ |
| | 12 | PREFIX-(†)-12-(*)-(+)90-12 | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)90-12 | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)90-12 | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)90-12 | | | | | | | | | | | | |
| 24 | 06 | PREFIX-(†)-06-(*)-(+)90-24 | 24 | 24 | 24 | 25⅞ | 25⅞ | 25⅞ | 27⅝ | 27⅝ | 27⅝ | 30³⁄₁₆ | 30³⁄₁₆ | 30³⁄₁₆ |
| | 12 | PREFIX-(†)-12-(*)-(+)90-24 | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)90-24 | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)90-24 | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)90-24 | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)90-24 | | | | | | | | | | | | |
| 36 | 06 | PREFIX-(†)-06-(*)-(+)90-36 | 36 | 36 | 36 | 37⅞ | 37⅞ | 37⅞ | 39⅝ | 39⅝ | 39⅝ | 42³⁄₁₆ | 42³⁄₁₆ | 42³⁄₁₆ |
| | 12 | PREFIX-(†)-12-(*)-(+)90-36 | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)90-36 | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)90-36 | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)90-36 | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)90-36 | | | | | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style. (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Catalog Number. Includes one pair of splice plates with hardware.*

## One-Piece Tray




*60° Outside Bend*




*60° Inside Bend*

### Catalog Numbering System

| ALUF | - | 3 | - | 12 | - | V | - | VI | 60 | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Prefix ALUF, SPUF, SHUF, SSUF | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

### Selection Guide

**Prefix**: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

**Inside Tray Widths**: 6, 12, 18, 24, 30, 36

**Angle**: 60°

**Nominal Radius**: 12, 24, 36

**Bottom Styles**: V – Ventilated, S – Solid

**Side Rail Depth**: 2", 3", 6"

### 60° Vertical Bends

| NOMINAL RADIUS | | | (+) VO SIDE RAIL HEIGHT 2", 3", 6" | | | (+) VI SIDE RAIL HEIGHT 2" | | | (+) VI SIDE RAIL HEIGHT 3" | | | (+) VI SIDE RAIL HEIGHT 6" | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 06 | PREFIX-(†)-06-(*)-(+)60-12 | 10⅜ | 6 | 6¹⁵⁄₁₆ | 12 | 7⅞ | 8 | 13½ | 9⅝ | 9 | 15¾ | 12³⁄₁₆ | 10½ |
| | 12 | PREFIX-(†)-12-(*)-(+)60-12 | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)60-12 | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)60-12 | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)60-12 | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)60-12 | | | | | | | | | | | | |
| 24 | 06 | PREFIX-(†)-06-(*)-(+)60-24 | 20¹³⁄₁₆ | 12 | 13⅞ | 22⁷⁄₁₆ | 13⅞ | 14¹⁵⁄₁₆ | 23¹⁵⁄₁₆ | 15⅝ | 15¹⁵⁄₁₆ | 26⅛ | 18³⁄₁₆ | 17⁷⁄₁₆ |
| | 12 | PREFIX-(†)-12-(*)-(+)60-24 | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)60-24 | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)60-24 | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)60-24 | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)60-24 | | | | | | | | | | | | |
| 36 | 06 | PREFIX-(†)-06-(*)-(+)60-36 | 31³⁄₁₆ | 18 | 20¹³⁄₁₆ | 32¹³⁄₁₆ | 19⅞ | 21⅞ | 34⁵⁄₁₆ | 21⅝ | 22⅞ | 36½ | 24³⁄₁₆ | 24⅜ |
| | 12 | PREFIX-(†)-12-(*)-(+)60-36 | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)60-36 | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)60-36 | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)60-36 | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)60-36 | | | | | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style. (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Catalog Number. Includes one pair of splice plates with hardware.*



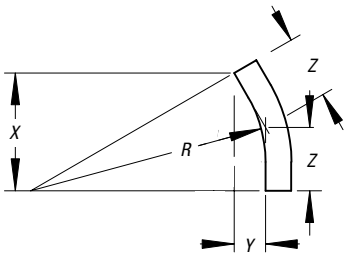
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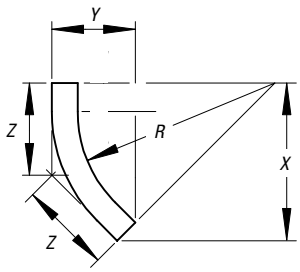
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## One-Piece Tray




*45° Outside Bend*




*45° Inside Bend*

### Catalog Numbering System

| ALUF | - | 3 | - | 12 | - | V | - | VI | 45 | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Prefix ALUF, SPUF, SHUF, SSUF | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

### Selection Guide

**Prefix**: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

**Inside Tray Widths**: 6, 12, 18, 24, 30, 36

**Angle**: 45°

**Nominal Radius**: 12, 24, 36

**Bottom Styles**: V – Ventilated, S – Solid

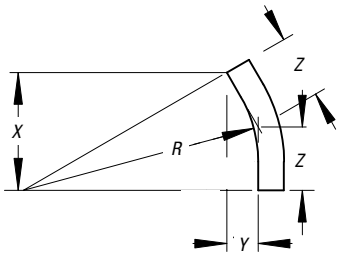
**Side Rail Depth**: 2", 3", 6"

### 45° Vertical Bends

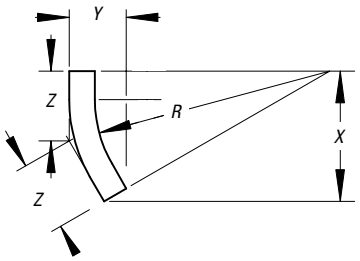
| NOMINAL RADIUS | | | (+) VO SIDE RAIL HEIGHT 2", 3", 6" | | | (+) VI SIDE RAIL HEIGHT 2" | | | (+) VI SIDE RAIL HEIGHT 3" | | | (+) VI SIDE RAIL HEIGHT 6" | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 06 | PREFIX-(†)-06-(*)-(+)45-12 | 8½ | 3½ | 5 | 9 13/16 | 5⅜ | 5¾ | 11 1/16 | 7⅛ | 6 1/16 | 12⅞ | 9 1/16 | 7 9/16 |
| | 12 | PREFIX-(†)-12-(*)-(+)45-12 | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)45-12 | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)45-12 | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)45-12 | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)45-12 | | | | | | | | | | | | |
| 24 | 06 | PREFIX-(†)-06-(*)-(+)45-24 | 17 | 7 | 9 15/16 | 18 5/16 | 8⅞ | 10 11/16 | 19½ | 10⅝ | 11 7/16 | 21⅜ | 13 3/16 | 12½ |
| | 12 | PREFIX-(†)-12-(*)-(+)45-24 | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)45-24 | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)45-24 | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)45-24 | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)45-24 | | | | | | | | | | | | |
| 36 | 06 | PREFIX-(†)-06-(*)-(+)45-36 | 25 7/16 | 10 9/16 | 14 15/16 | 26 13/16 | 12 7/16 | 15 11/16 | 28 | 14 3/16 | 16 7/16 | 29 13/16 | 16¾ | 17½ |
| | 12 | PREFIX-(†)-12-(*)-(+)45-36 | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)45-36 | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)45-36 | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)45-36 | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)45-36 | | | | | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style. (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Catalog Number. Includes one pair of splice plates with hardware.*

## One-Piece Tray




*30° Outside Bend*




*30° Inside Bend*

### Catalog Numbering System

| ALUF | - | 3 | - | 06 | - | V | - | VI | 30 | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Prefix ALUF, SPUF, SHUF, SSUF | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Angle | | Nominal Radius |

### Selection Guide

**Prefix**: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

**Inside Tray Widths**: 6, 12, 18, 24, 30, 36

**Angle**: 30°

**Nominal Radius**: 12, 24, 36

**Bottom Styles**: V – Ventilated, S – Solid

**Side Rail Depth**: 2", 3", 6"

### 30° Vertical Bends

| NOMINAL RADIUS | | | (+) VO SIDE RAIL HEIGHT 2", 3", 6" | | | (+) VI SIDE RAIL HEIGHT 2" | | | (+) VI SIDE RAIL HEIGHT 3" | | | (+) VI SIDE RAIL HEIGHT 6" | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | WIDTH | CAT. NO. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 06 | PREFIX-(†)-06-(*)-(+)30-12 | 6 | 1 5/8 | 3 3/16 | 6 15/16 | 3 1/2 | 3 11/16 | 7 13/16 | 5 1/4 | 4 3/16 | 9 1/8 | 7 13/16 | 4 7/8 |
| | 12 | PREFIX-(†)-12-(*)-(+)30-12 | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)30-12 | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)30-12 | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)30-12 | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)30-12 | | | | | | | | | | | | |
| 24 | 06 | PREFIX-(†)-06-(*)-(+)30-24 | 12 | 3 3/16 | 6 7/16 | 12 15/16 | 5 1/16 | 6 15/16 | 13 13/16 | 6 13/16 | 7 3/8 | 15 1/8 | 9 3/8 | 8 1/16 |
| | 12 | PREFIX-(†)-12-(*)-(+)30-24 | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)30-24 | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)30-24 | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)30-24 | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)30-24 | | | | | | | | | | | | |
| 36 | 06 | PREFIX-(†)-06-(*)-(+)30-36 | 18 | 4 13/16 | 9 5/8 | 18 15/16 | 6 11/16 | 10 1/8 | 19 13/16 | 8 7/16 | 10 5/8 | 21 1/8 | 11 | 11 5/16 |
| | 12 | PREFIX-(†)-12-(*)-(+)30-36 | | | | | | | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-(+)30-36 | | | | | | | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-(+)30-36 | | | | | | | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-(+)30-36 | | | | | | | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-(+)30-36 | | | | | | | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style. (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Catalog Number. Includes one pair of splice plates with hardware.*



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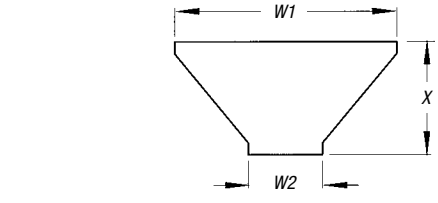
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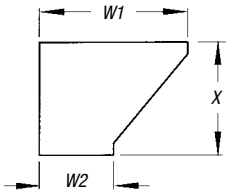
## One-Piece Tray



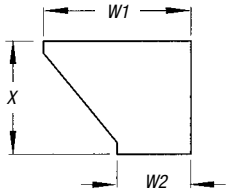
Straight Reducer




Straight Reducer




Right Offset Reducer




Left Offset Reducer

### Catalog Numbering System

| ALUF | - | 3 | - | 36 | 24 | - | V | - | VI30 |
|---|---|---|---|---|---|---|---|---|---|
| Prefix ALUF, SPUF, SHUF, SSUF | | Side Rail Depth | | Width 1 | Width 2 | | Bottom Style | | Fitting Type |

### Selection Guide

**Prefix**: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

**Tray Widths W1**: 36, 30, 24, 18, 12

**Tray Widths W2**: 30, 24, 18, 12, 6

**Bottom Styles**: V – Ventilated, S – Solid

**Side Rail Depth**: 2", 3", 6"

### Reducers

| WIDTHS | | LH REDUCER | | STRAIGHT REDUCER (CONCENTRIC) | | RH REDUCER | |
|---|---|---|---|---|---|---|---|
| W1 | W2 | CAT. NO. | DIM. X | CAT. NO. | DIM. X | CAT. NO. | DIM. X |
| 36 | 30 | PREFIX-(†)-36-30-(*)-HLR | 15 7/16 | PREFIX-(†)-36-30-(*)-HSR | 13 3/4 | PREFIX-(†)-36-30-(*)-HRR | 15 7/16 |
| | 24 | PREFIX-(†)-36-24-(*)-HLR | 18 15/16 | PREFIX-(†)-36-24-(*)-HSR | 15 7/16 | PREFIX-(†)-36-24-(*)-HRR | 18 15/16 |
| | 18 | PREFIX-(†)-36-18-(*)-HLR | 22 3/8 | PREFIX-(†)-36-18-(*)-HSR | 17 3/8 | PREFIX-(†)-36-18-(*)-HRR | 22 3/8 |
| | 12 | PREFIX-(†)-36-12-(*)-HLR | 25 7/8 | PREFIX-(†)-36-12-(*)-HSR | 18 5/16 | PREFIX-(†)-36-12-(*)-HRR | 25 7/8 |
| | 06 | PREFIX-(†)-36-06-(*)-HLR | 29 5/16 | PREFIX-(†)-36-06-(*)-HSR | 20 11/16 | PREFIX-(†)-36-06-(*)-HRR | 29 5/16 |
| 30 | 24 | PREFIX-(†)-30-24-(*)-HLR | 15 7/16 | PREFIX-(†)-30-24-(*)-HSR | 13 3/4 | PREFIX-(†)-30-24-(*)-HRR | 15 7/16 |
| | 18 | PREFIX-(†)-30-18-(*)-HLR | 18 15/16 | PREFIX-(†)-30-18-(*)-HSR | 15 7/16 | PREFIX-(†)-30-18-(*)-HRR | 18 15/16 |
| | 12 | PREFIX-(†)-30-12-(*)-HLR | 22 3/8 | PREFIX-(†)-30-12-(*)-HSR | 17 3/16 | PREFIX-(†)-30-12-(*)-HRR | 22 3/8 |
| | 06 | PREFIX-(†)-30-06-(*)-HLR | 25 7/8 | PREFIX-(†)-30-06-(*)-HSR | 18 15/16 | PREFIX-(†)-30-06-(*)-HRR | 25 7/8 |
| 24 | 18 | PREFIX-(†)-24-18-(*)-HLR | 15 7/16 | PREFIX-(†)-24-18-(*)-HSR | 13 3/4 | PREFIX-(†)-24-18-(*)-HRR | 15 7/16 |
| | 12 | PREFIX-(†)-24-12-(*)-HLR | 18 15/16 | PREFIX-(†)-24-12-(*)-HSR | 15 7/16 | PREFIX-(†)-24-12-(*)-HRR | 18 15/16 |
| | 06 | PREFIX-(†)-24-06-(*)-HLR | 22 3/8 | PREFIX-(†)-24-06-(*)-HSR | 17 3/16 | PREFIX-(†)-24-06-(*)-HRR | 22 3/8 |
| 18 | 12 | PREFIX-(†)-18-12-(*)-HLR | 15 7/16 | PREFIX-(†)-18-12-(*)-HSR | 13 3/4 | PREFIX-(†)-18-12-(*)-HRR | 15 7/16 |
| | 06 | PREFIX-(†)-18-06-(*)-HLR | 18 15/16 | PREFIX-(†)-18-06-(*)-HSR | 15 7/16 | PREFIX-(†)-18-06-(*)-HRR | 18 15/16 |
| 12 | 06 | PREFIX-(†)-12-06-(*)-HLR | 15 7/16 | PREFIX-(†)-12-06-(*)-HSR | 13 3/4 | PREFIX-(†)-12-06-(*)-HRR | 15 7/16 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Includes one pair of splice plates with hardware.*

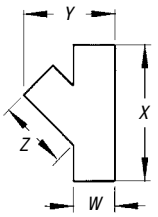
## One-Piece Tray



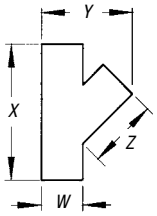
*Solid - Left*



*Ventilated - Left*




*Left-Hand Wye*




*Right-Hand Wye*

### Catalog Numbering System

| ALUF | - | 6 | - | 24 | - | V | - | HYL |
|---|---|---|---|---|---|---|---|---|
| Prefix ALUF, SPUF, SHUF, SSUF | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type |

### Selection Guide

**Prefix**: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

**Inside Tray Widths**: 6, 12, 18, 24, 30, 36

**Bottom Styles**: V – Ventilated, S – Solid

**Side Rail Depth**: 2", 3", 6"

### 45° Horizontal Wyes

| WIDTH | LEFT-HAND WYE CAT. NO. | RIGHT-HAND WYE CAT. NO. | DIMENSIONS X | Y | Z |
|---|---|---|---|---|---|
| 06 | **PREFIX-(†)-06-(*)-HYL** | **PREFIX-(†)-06-(*)-HYR** | 18 5/16 | 14 13/16 | 12 7/16 |
| 12 | **PREFIX-(†)-12-(*)-HYL** | **PREFIX-(†)-12-(*)-HYR** | 26 3/4 | 25 | 18 7/16 |
| 18 | **PREFIX-(†)-18-(*)-HYL** | **PREFIX-(†)-18-(*)-HYR** | 35 1/4 | 35 1/4 | 24 7/16 |
| 24 | **PREFIX-(†)-24-(*)-HYL** | **PREFIX-(†)-24-(*)-HYR** | 43 1/2 | 45 1/2 | 30 7/16 |
| 30 | **PREFIX-(†)-30-(*)-HYL** | **PREFIX-(†)-30-(*)-HYR** | 52 1/4 | 55 3/4 | 36 7/16 |
| 36 | **PREFIX-(†)-36-(*)-HYL** | **PREFIX-(†)-36-(*)-HYR** | 60 11/16 | 66 | 42 7/16 |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Includes one pair of splice plates with hardware.*



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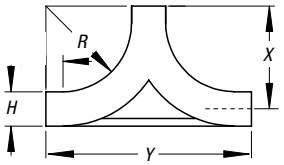
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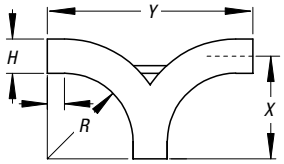
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## One-Piece Tray






Up




Down

### Catalog Numbering System

| ALUF | - | 6 | - | 24 | - | V | - | VTD | 12 |
|---|---|---|---|---|---|---|---|---|---|
| Prefix ALUF, SPUF, SHUF, SSUF | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | Nominal Radius |

### Selection Guide

**Prefix**: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

**Inside Tray Widths**: 6, 12, 18, 24, 30, 36

**Nominal Radius**: 12, 24, 36

**Bottom Styles**: V – Ventilated, S – Solid

**Side Rail Depth**: 2", 3", 6"

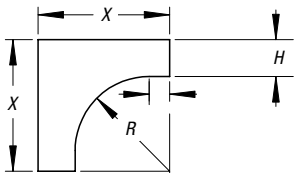
### Up and Down Vertical Tees

| NOMINAL RADIUS | | VERTICAL TEE UP | VERTICAL TEE DOWN | SIDE RAIL HEIGHT "H" | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 2" | | 3" | | 6" | |
| R | WIDTH | CAT. NO. | CAT. NO. | X | Y | X | Y | X | Y |
| 12 | 06 | PREFIX-(†)-06-(*)-VTU12 | PREFIX-(†)-06-(*)-VTD12 | 12 15/16 | 2 5/8 | 13 13/16 | 2 7/8 | 1 5/8 | 3 3/16 |
| | 12 | PREFIX-(†)-12-(*)-VTU12 | PREFIX-(†)-12-(*)-VTD12 | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-VTU12 | PREFIX-(†)-18-(*)-VTD12 | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-VTU12 | PREFIX-(†)-24-(*)-VTD12 | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-VTU12 | PREFIX-(†)-30-(*)-VTD12 | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-VTU12 | PREFIX-(†)-36-(*)-VTD12 | | | | | | |
| 24 | 06 | PREFIX-(†)-06-(*)-VTU24 | PREFIX-(†)-06-(*)-VTD24 | 24 15/16 | 4 9/8 | 25 13/16 | 5 1/8 | 2 7/8 | 5 4 3/16 |
| | 12 | PREFIX-(†)-12-(*)-VTU24 | PREFIX-(†)-12-(*)-VTD24 | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-VTU24 | PREFIX-(†)-18-(*)-VTD24 | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-VTU24 | PREFIX-(†)-24-(*)-VTD24 | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-VTU24 | PREFIX-(†)-30-(*)-VTD24 | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-VTU24 | PREFIX-(†)-36-(*)-VTD24 | | | | | | |
| 36 | 06 | PREFIX-(†)-06-(*)-VTU36 | PREFIX-(†)-06-(*)-VTD36 | 36 15/16 | 7 3/8 | N/A | N/A | 3 9/8 | 7 8 3/16 |
| | 12 | PREFIX-(†)-12-(*)-VTU36 | PREFIX-(†)-12-(*)-VTD36 | | | | | | |
| | 18 | PREFIX-(†)-18-(*)-VTU36 | PREFIX-(†)-18-(*)-VTD36 | | | | | | |
| | 24 | PREFIX-(†)-24-(*)-VTU36 | PREFIX-(†)-24-(*)-VTD36 | | | | | | |
| | 30 | PREFIX-(†)-30-(*)-VTU36 | PREFIX-(†)-30-(*)-VTD36 | | | | | | |
| | 36 | PREFIX-(†)-36-(*)-VTU36 | PREFIX-(†)-36-(*)-VTD36 | | | | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Includes two pairs of splice plates with hardware.*

## One-Piece Tray






### Catalog Numbering System

| SPUF | - | 3 | - | 24 | - | V | - | CS | - | 12 |
|---|---|---|---|---|---|---|---|---|---|---|
| Prefix ALUF, SPUF, SHUF, SSUF | | Side Rail Depth | | Width | | Bottom Style | | Fitting Type | | Nominal Radius |

### Selection Guide

**Prefix**: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

**Inside Tray Widths**: 6, 12, 18, 24, 30, 36

**Nominal Radius**: 12, 24, 36

**Bottom Styles**: V – Ventilated, S – Solid

**Side Rail Depth**: 2", 3", 6"

### Cable Support Fittings

| NOMINAL RADIUS | | | SIDE RAIL HEIGHT "H" | | |
|---|---|---|---|---|---|
| | | | 2" | 3" | 6" |
| R | WIDTH | CAT. NO. | | X | |
| 12 | 06 | PREFIX-(†)-06-(*)-CS12 | 13⅞ | 15⅝ | 18³⁄₁₆ |
| | 12 | PREFIX-(†)-12-(*)-CS12 | | | |
| | 18 | PREFIX-(†)-18-(*)-CS12 | | | |
| | 24 | PREFIX-(†)-24-(*)-CS12 | | | |
| | 30 | PREFIX-(†)-30-(*)-CS12 | | | |
| | 36 | PREFIX-(†)-36-(*)-CS12 | | | |
| 24 | 06 | PREFIX-(†)-06-(*)-CS24 | 25⅞ | 27⅝ | 30³⁄₁₆ |
| | 12 | PREFIX-(†)-12-(*)-CS24 | | | |
| | 18 | PREFIX-(†)-18-(*)-CS24 | | | |
| | 24 | PREFIX-(†)-24-(*)-CS24 | | | |
| | 30 | PREFIX-(†)-30-(*)-CS24 | | | |
| | 36 | PREFIX-(†)-36-(*)-CS24 | | | |
| 36 | 06 | PREFIX-(†)-06-(*)-CS36 | 37⅞ | 39⅝ | 42³⁄₁₆ |
| | 12 | PREFIX-(†)-12-(*)-CS36 | | | |
| | 18 | PREFIX-(†)-18-(*)-CS36 | | | |
| | 24 | PREFIX-(†)-24-(*)-CS36 | | | |
| | 30 | PREFIX-(†)-30-(*)-CS36 | | | |
| | 36 | PREFIX-(†)-36-(*)-CS36 | | | |

*(†) Insert side rail depth. (*) Insert bottom style to complete Catalog Number. Includes two pairs of splice plates with hardware.*



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## One-Piece Tray

### Straight Covers

**ALUW 12 SNC - 3**

**Material Prefix**
- **ALUW** = Aluminum
- **SPW** = Pre-Galvanized
- **SHW** = Hot-Dip Galvanized after Fabrication
- **SSW** = Stainless Steel 316

**Width**
- **06** = 6"
- **12** = 12"
- **18** = 18"
- **24** = 24"
- **30** = 30"
- **36** = 36"

**Type**
- **SNC** = Solid Non-Flanged Cover
- **SFC** = Solid Flanged Cover
- **VFC** = Ventilated Flanged Cover

**Length***
- **3** = 3m

** For SHW covers, maximum lengths are 72" and 1500mm.*

### Fitting Covers

**ALUW 12 SNC HB 90 24**

**Material Prefix**
- **ALUW** = Aluminum
- **SPW** = Pre-Galvanized
- **SHW** = Hot-Dip Galvanized after Fabrication
- **SSW** = Stainless Steel 316

**Width**
- **06** = 6"
- **12** = 12"
- **18** = 18"
- **24** = 24"
- **30** = 30"
- **36** = 36"

**Cover Type**
- **SNC** = Solid Non-Flanged Cover
- **SFC** = Solid Flanged Cover
- **VFC** = Ventilated Flanged Cover

**Fitting Type**
- **HB** = Horizontal Bend
- **HT** = Horizontal Tee
- **HX** = Horizontal Cross
- **VI** = Vertical Inside Bend
- **VTU** = Vertical Tee Down
- **HYR** = Horizontal Wye Right
- **HYL** = Horizontal Wye Left

**Degree***
- **30** = 30°
- **45** = 45°
- **60** = 60°
- **90** = 90°

**Radius**
- **12** = 12"
- **24** = 24"
- **36** = 36"

***Note:*** *Cover mounting hardware sold separately.*

** Required for HB and VI only.*

## One-Piece Tray

# Fitting Covers *(continued)*

**ALUW 12 18 SNC RT 12**

| Material Prefix | Width 1 | Width 2 | Cover Type | Fitting Type | Radius |
|---|---|---|---|---|---|
| **ALUW** = Aluminum | **06** = 6" | **06** = 6" | **SNC** = Solid Non-Flanged Cover | **RT** = Horizontal Reduce Tee | **12** = 12" |
| **SPW** = Pre-Galvanized | **12** = 12" | **12** = 12" | **SFC** = Solid Flanged Cover | **ET** = Horizontal Expand Tee | **24** = 24" |
| **SHW** = Hot-Dip Galvanized after Fabrication | **18** = 18" | **18** = 18" | **VFC** = Ventilated Flanged Cover | **EX** = Horizontal Expand Tee and Reduce Cross | **36** = 36" |
| **SSW** = Stainless Steel 316 | **24** = 24" | **24** = 24" | | **HSR** = Horizontal Straight Reducer | |
| | **30** = 30" | **30** = 30" | | **HLR** = Horizontal Left Reducer | |
| | **36** = 36" | **36** = 36" | | **HRR** = Horizontal Right Reducer | |

** Radius not required for HSR, HLR, HRR.*

**ALUW 3 12 SNC VO 90 24**

| Material Prefix | Side Rail Height | Width | Cover Type | Fitting Type | Degree* | Radius |
|---|---|---|---|---|---|---|
| **ALUW** = Aluminum | **2** = 2" | **06** = 6" | **SNC** = Solid Non-Flanged Cover | **VO** = Vertical Outside Bend | **30** = 30° | **12** = 12" |
| **SPW** = Pre-Galvanized | **3** = 3⅝" | **12** = 12" | **SFC** = Solid Flanged Cover | **VTD** = Vertical Tee Down | **45** = 45° | **24** = 24" |
| **SHW** = Hot-Dip Galvanized after Fabrication | **6** = 6" | **18** = 18" | **VFC** = Ventilated Flanged Cover | **CS** = Cable Support | **60** = 60° | **36** = 36" |
| **SSW** = Stainless Steel 316 | | **24** = 24" | | | **90** = 90° | |
| | | **30** = 30" | | | | |
| | | **36** = 36" | | | | |

***Note:*** *Cover mounting hardware sold separately.*

** Required for VO only.*



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## One-Piece Tray

### Standard Splice Plate

- Packaged in pairs with zinc-plated hardware
- Provided as standard with each straight and/or fitting

| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-2-SSP | 2" |

*Available in Aluminum (ALUW), Hot-Dip Galvanized (SHUW), Pre-Galvanized (SPUW) and Stainless Steel 316 (SSUW).*

| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-3-SSP | 3" |
| (PREFIX)-6-SSP | 6" |

*Available in Aluminum (ALUW), Hot-Dip Galvanized (SHW), Pre-Galvanized (SPW) and Stainless Steel 316 (SSW).*



### Expansion Splice Plate

- Allows for a 1" expansion or contraction of tray system
- Packaged in pairs with hardware

| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-2-ESP | 2" |

*Available in Aluminum (ALUW), Hot-Dip Galvanized (SHUW), Pre-Galvanized (SPUW) and Stainless Steel 316 (SSUW).*

| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-3-ESP | 3" |
| (PREFIX)-6-ESP | 6" |

*Available in Aluminum (ALUW), Hot-Dip Galvanized (SHW), Pre-Galvanized (SPW) and Stainless Steel 316 (SSW).*

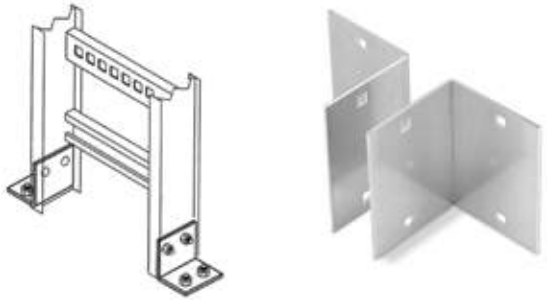


### Box to Tray Plates

- Designed to secure tray to electrical panels or boxes, walls or end supports
- Packaged in pairs with hardware

| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-3-BSP | 3" |
| (PREFIX)-4-BSP | 4" |
| (PREFIX)-5-BSP | 5" |
| (PREFIX)-6-BSP | 6" |
| (PREFIX)-7-BSP | 7" |

*Available in Pre-Galvanized (SPW), Hot-Dip Galvanized (SHW) and Stainless Steel 316 (SSW)*



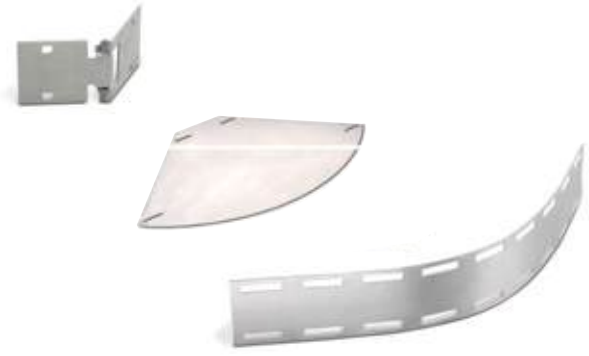
### Horizontal Adjustable Plate

- Adjustable hinge plates provide maximum horizontal installation flexibility
- Furnished as a kit with hardware

| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-(*)06HAP | 06" |
| (PREFIX)-(*)09HAP | 09" |
| (PREFIX)-(*)12HAP | 12" |
| (PREFIX)-(*)18HAP | 18" |
| (PREFIX)-(*)24HAP | 24" |
| (PREFIX)-(*)30HAP | 30" |
| (PREFIX)-(*)36HAP | 36" |

** Insert side rail height.*

*Available in Aluminum (ALUW), Pre-Galvanized (SPUW) and Stainless Steel 316 (SSUW)*



# One-Piece Tray

## Vertical Adjustable Plate

- Provide maximum flexibility for changes in elevation
- Includes hardware
- Available in Aluminum (ALUW), Pre-Galvanized (SPUW) and Stainless Steel 316 (SSUW)

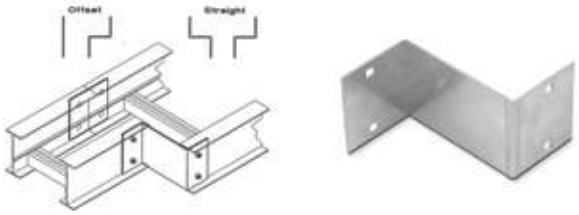


| CAT. NO. | HEIGHT |
|---|---|
| (PREFIX)-2-(**)-VSP | 2" |
| (PREFIX)-3-(**)-VSP | 3" |
| (PREFIX)-6-(**)-VSP | 6" |

*(**) Insert width of tray — 06", 12", 18", 24", 30" or 36".*

## Reducing Splice Plate

- Used in pairs to provide a straight reduction or used with a Standard Splice Plate for an offset reduction
- One per package with hardware




| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-2-(*)-RSP | 2" |

*Available in Aluminum (ALUW), Hot-Dip Galvanized (SHUW), Pre-Galvanized (SPUW) and Stainless Steel 316 (SSUW).*

*(*) Insert width to reduce.*

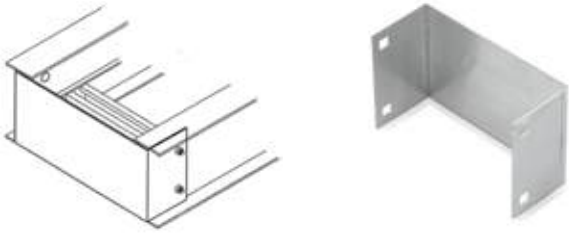
| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-3-RSP | 3" |
| (PREFIX)-6-RSP | 6" |

*Available in Aluminum (ALUW), Hot-Dip Galvanized (SHW), Pre-Galvanized (SPW) and Stainless Steel 316 (SSW).*

***Note**: For offset reduction: Insert width to be reduced.*
*For straight reduction: Insert ½ width to be reduced (two required).*
*Example: ALUW-3-RSP = 3" offset reducer.*

## Closure End Plate

- Provides closure for any tray end
- Hardware included



| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-2-(**)-CEP | 2" |

*Available in Aluminum (ALUW), Hot-Dip Galvanized (SHUW), Pre-Galvanized (SPUW) and Stainless Steel 316 (SSUW).*
*(**) Insert width of tray — 06", 12", 18", 24", 30" or 36".*

| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-3-(**)-CEP | 3" |
| (PREFIX)-6-(**)-CEP | 6" |

*Available in Aluminum (ALUW), Hot-Dip Galvanized (SHW), Pre-Galvanized (SPW) and Stainless Steel 316 (SSW).*
*(**) Insert width of tray — 06", 12", 18", 24", 30" or 36".*



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## One-Piece Tray

### Heavy-Duty Cover Clamp

- Models with 2" side rail height available in Aluminum (ALUW), Hot-Dip Galvanized (SHUW), Pre-Galvanized (SPUW) and Stainless Steel 316 (SSUW)
- Models with 3" and 6" side rail heights available in Aluminum (ALUW), Hot-Dip Galvanized (SHW), Pre-Galvanized (SPW) and Stainless Steel 316 (SSW)



| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-2-(**)-HCC | 2" |

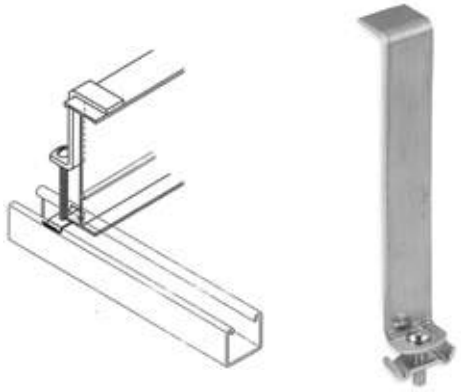
*(**) Insert width of tray — 06", 12", 18", 24", 30" or 36".*

| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-3-(**)-HCC | 3" |
| (PREFIX)-6-(**)-HCC | 6" |

*(**) Insert width of tray — 06", 12", 18", 24", 30" or 36".*

### Combination Hold-Down Cover Clamp

- Designed to secure flat and flanged covers with hold-down feature
- Available in Pre-Galvanized (SPW) and Stainless Steel 316 (SSW)



| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-3-CCC | 3" |
| (PREFIX)-4-CCC | 4" |
| (PREFIX)-5-CCC | 5" |
| (PREFIX)-6-CCC | 6" |
| (PREFIX)-7-CCC | 7" |

### Cover Clamp

- Rigid indoor cover clamp for flat and flanged covers
- Available in Pre-Galvanized (SPW) and Stainless Steel 316 (SSW)

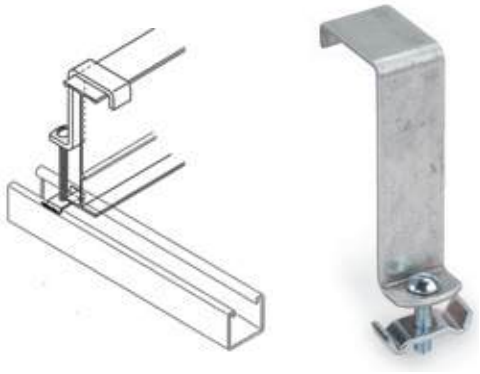


| CAT. NO. | HEIGHT |
|---|---|
| (PREFIX)-2-SCC | 2" |
| (PREFIX)-3-SCC | 3" |
| (PREFIX)-6-SCC | 6" |

## One-Piece Tray

### Combination Hold-Down/Cover Clamp

- Available in Pre-Galvanized (SPUW) and Stainless Steel 316 (SSUW)



| CAT. NO. | SIDE RAIL HEIGHT |
|---|---|
| (PREFIX)-2-HDC | 2" |
| (PREFIX)-3-HDC | 3" |
| (PREFIX)-6-HDC | 6" |

### Horizontal Tee Branch

- Available in Aluminum (ALUW), Pre-Galvanized (SPUW) and Stainless Steel 316 (SSUW)



| CAT. NO. | HEIGHT |
|---|---|
| (PREFIX)-2-(**)-HTB | 2" |
| (PREFIX)-3-(**)-HTB | 3" |
| (PREFIX)-6-(**)-HTB | 6" |

*(**) Insert width of tray — 06", 12", 18", 24", 30" or 36".*

### Steel Tray Hardware

- Wrap-around design offers added protection for rugged applications and outdoor conditions
- Hardware included



| CAT. NO. | DESCRIPTION | MATERIAL |
|---|---|---|
| SPW-1/4-CB | ¼" Carriage Bolt | Zinc-Plated Steel |
| SPW-3/8-CB | ⅜" Carriage Bolt | Zinc-Plated Steel |
| SPW-1/4-HN | ¼" Hex Nut | Zinc-Plated Steel |
| SPW-3/8-HN | ⅜" Hex Nut | Zinc-Plated Steel |
| SSW-3/8-CB | ⅜" Carriage Bolt | 316 Stainless |
| SSW-3/8-HN | ⅜" Hex Nut | 316 Stainless |
| SSW-3/8-HWK* | 316 Stainless Steel Hardware Kit | 316 Stainless |

** Contains eight nuts, eight bolts, eight lock washers.*



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# One-Piece Tray

## Drop-Out

- Provide a smooth radiused surface at any position on the tray or trough bottom
- Attach using hardware provided
- Standard radius is 4"
- Available in Aluminum (ALUW), Pre-Galvanized (SPW) and Stainless Steel 316 (SSW)

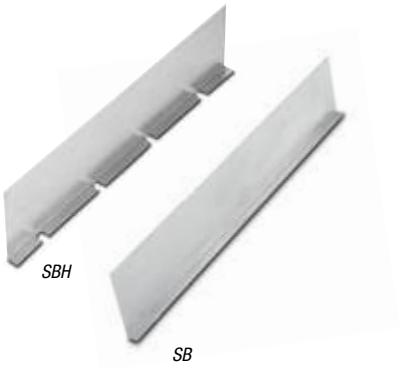


| CAT. NO. |
|---|
| (PREFIX)-(**)-DOS |

*(**) Insert width of tray — 06", 12", 18", 24", 30" or 36".*

## Horizontal Barrier Strips

- Separate cables in tray and trough systems
- Easily installed using supplied hardware or Barrier Strip Clamps (sold separately)
- 72" barriers are flexible for use with horizontal fittings
- Available in Aluminum (ALUW), Pre-Galvanized (SPUW) and Stainless Steel 316 (SSUW)




| CAT. NO. | HEIGHT | LENGTH |
|---|---|---|
| (PREFIX)-2-SB-3 | 2" | 3m |
| (PREFIX)-3-SB-3 | 3" | 3m |
| (PREFIX)-6-SB-3 | 6" | 3m |
| (PREFIX)-2-SBH-72 | 2" | 72" |
| (PREFIX)-3-SBH-72 | 3" | 72" |
| (PREFIX)-6-SBH-72 | 6" | 72" |

***Note:*** *3m barriers provided with six SPW10SCR; 72" barriers provided with three SPW10SCR.*

## Vertical Barrier Strips

- Preformed to fit all standard steel vertical bends
- Provided with hardware



| INSIDE BEND CAT. NO. | OUTSIDE BEND CAT. NO. | HEIGHT |
|---|---|---|
| (PREFIX)-2-VIB-(*)-(**) | (PREFIX)-2-VOB-(*)-(**) | 2" |
| (PREFIX)-3-VIB-(*)-(**) | (PREFIX)-3-VOB-(*)-(**) | 3" |
| (PREFIX)-6-VIB-(*)-(**) | (PREFIX)-6-VOB-(*)-(**) | 6" |

*Available in Aluminum (ALUW), Pre-Galvanized (SPUW) and Stainless Steel 316 (SSUW).*
*(*) Insert angle — 90°, 60°, 45° or 30°.*
*(**) Insert radius — 12", 24" or 36".*

## Channel Tray

In order to ensure that your Channel Tray installation will meet your present and future needs, a sequence of decisions must be made. These decisions are relatively simple and can be condensed down to four steps.

### Material Choice

- Aluminum
- Pre-Galvanized
- Hot-Dipped Galvanized
- Stainless Steel
- Coatings
- Other

T&B Channel Tray systems are fabricated from a corrosion-resistant metal (low-carbon steel, stainless steel or an aluminum alloy) or from a metal with a corrosion-resistant finish (zinc or epoxy). The choice of material for any particular installation depends on the installation environment (corrosion and electrical considerations) and cost. Please refer to **pages B-424–B-438** for further explanation.

### Type of Tray Bottom

- Ventilated
- Solid

Thomas & Betts offers cable channel in solid or ventilated straight sections. Ventilated channel has burr-free oblong punched holes for easy access. Ty-Rap® slots are provided between each opening for securing of cable. Thomas & Betts channel tray meets NEMA VE-1/CSA C22.22 No. 126.1-02.

### T&B Channel Tray Width

- 1.5"
- 3"
- 4"
- 6"

The width of a channel tray is a function of the number, size, spacing and weight of the cables in the tray. Available nominal widths are 1.5, 3, 4 and 6 inches. When specifying width, cable ties or other spacing devices may be used to maintain the required air space between cables.

### Fittings Selection

- Horizontal Bends (90°, 60°, 45° and 30°)
- Horizontal Tees and Crosses
- Vertical Bends (90°, 60°, 45° and 30°)

Fittings are used to change the size or direction of the channel tray. The most important decision to be made in fitting design concerns radius. The radius of the bend, whether horizontal or vertical, can be zero (non-radius), 12", 24" or greater on a custom basis. The selection requires a compromise, with the considerations being available space, minimum bending radius of cables, ease of cable pulling and cost. The typical radius is 24 inches.

Fittings are also available for 30°, 45°, 60° and 90° angles. When a standard angle will not work, field fittings or adjustable elbows can be used. It may be necessary to add supports to the tray at these points.

Refer to CSA/NEMA VE2 Installation Guidelines for suggested support locations.



*Ventilated Channel*



*Solid Channel*



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# Channel Tray

## How to create Straight Section catalog numbers

1. Select the material
2. Select nominal width of tray
3. Select the bottom type
4. The last number is the length of the channel tray

Example: ALTC04V-3
- – Aluminum
- – 4" wide
- – Ventilated bottom
- – 10-ft. length



*Ventilated Channel*



*Solid Channel*

**AL T C 04 V - 3**

| Material | Series | Type | Width | Bottom Type | Length |
|---|---|---|---|---|---|
| **AL** = Aluminum<br>**SP** = Pre-Galvanized<br>**SH** = Hot-Dip Galvanized<br>**SS** = 316 Stainless Steel | **T** = Cable Channel | **C** = Cable Channel | **01** = 1.5"<br>**03** = 3"<br>**04** = 4"<br>**06** = 6" | **S** = Solid Trough<br>**V** = Ventilated | **3** = 10 ft. |



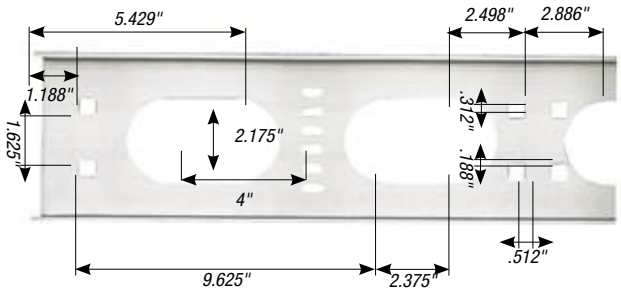
*Vented style offered in 1.5" width only.*



*Vented style offered in 3", 4", 6" widths only.*



*Solid style offered in all widths.*




*Bottom view of ventilated Channel Tray larger then 1.5" wide.*

### Selection Guide

**Prefix:** ALT (Alum.), SPT (Pre-Galv.), SHT (Hot-Dip Galv.) SST (Stainless Steel)

**Inside Channel Widths:** 01 = 1.5", 03 = 3", 04 = 4", 06 = 6"

**Bottom Styles:** V – Ventilated, S – Solid

## Channel Tray

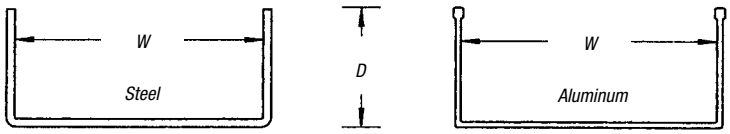
# Solid and Vented Bottom Straight Sections

**Solid**: Steel — Roll-formed steel. Aluminum — Extruded material

**Ventilated**: Pre-punched burr-free oblong holes with Ty-Rap® slots between each opening

**Accessories**: One connector complete with hardware supplied for each length

**Material**: Aluminum-6063-T6
Pre-Galvanized
Hot-Dip Galvanized
Stainless Steel 316




| ALUMINUM SOLID | CHANNEL WIDTH (W) | DEPTH (D) | | SUPPORT SPAN (FEET) 2 | 4 | 6 | 8 | 10 |
|---|---|---|---|---|---|---|---|---|
| ALTC | 1.5" | ¾" | LOAD (LB./FT.) | 47.5 | 11.9 | 5.4 | 3.0 | 1.9 |
| | | | DEFLECTION (IN.) | .170 | .680 | .745 | 1.325 | 2.070 |
| | 3" | 1⅜" | LOAD (LB./FT.) | 362.5 | 90.6 | 40.3 | 22.7 | 17.0 |
| | | | DEFLECTION (IN.) | .083 | .330 | .743 | 1.322 | 2.065 |
| | 4" | 1⅝" | LOAD (LB./FT.) | 580.0 | 145.0 | 64.4 | 36.3 | 24.0 |
| | | | DEFLECTION (IN.) | .065 | .260 | .585 | 1.041 | 1.626 |
| | 6" | 1¾" | LOAD (LB./FT.) | 607.5 | 151.9 | 67.5 | 38.0 | 25.0 |
| | | | DEFLECTION (IN.) | .061 | .244 | .550 | .977 | 1.527 |

| ALUMINUM VENTILATED | CHANNEL WIDTH (W) | DEPTH (D) | | SUPPORT SPAN (FEET) 2 | 4 | 6 | 8 | 10 |
|---|---|---|---|---|---|---|---|---|
| ALTC | 1.5" | ¾" | LOAD (LB./FT.) | 47.5 | 11.9 | 5.4 | 3.0 | 1.9 |
| | | | DEFLECTION (IN.) | .170 | .680 | .745 | 1.325 | 2.070 |
| | 3" | 1⅜" | LOAD (LB./FT.) | 300.0 | 75.0 | 33.3 | 18.8 | 14.0 |
| | | | DEFLECTION (IN.) | .100 | .400 | .900 | 1.600 | 2.500 |
| | 4" | 1⅝" | LOAD (LB./FT.) | 525.0 | 131.3 | 58.3 | 32.8 | 19.0 |
| | | | DEFLECTION (IN.) | .074 | .295 | .664 | 1.181 | 1.846 |
| | 6" | 1¾" | LOAD (LB./FT.) | 580.0 | 145.0 | 64.4 | 36.3 | 21.0 |
| | | | DEFLECTION (IN.) | .065 | .261 | .587 | 1.044 | 1.631 |

| STEEL SOLID | CHANNEL WIDTH (W) | DEPTH (D) | | SUPPORT SPAN (FEET) 2 | 4 | 6 | 8 | 10 |
|---|---|---|---|---|---|---|---|---|
| SPTC SHTC SSTC | 1.5" | ¾" | LOAD (LB./FT.) | 97.5 | 24.4 | 10.8 | 6.1 | 3.9 |
| | | | DEFLECTION (IN.) | .045 | .181 | .408 | .725 | 1.133 |
| | 3" | 1⅜" | LOAD (LB./FT.) | 252.0 | 63.0 | 28.0 | 15.8 | 17.0 |
| | | | DEFLECTION (IN.) | .034 | .134 | .302 | .538 | .840 |
| | 4" | 1⅝" | LOAD (LB./FT.) | 408.0 | 102.0 | 45.3 | 25.5 | 24.0 |
| | | | DEFLECTION (IN.) | .026 | .105 | .237 | .421 | .658 |
| | 6" | 1¾" | LOAD (LB./FT.) | 432.0 | 108.0 | 48.0 | 27.0 | 25.0 |
| | | | DEFLECTION (IN.) | .024 | .096 | .217 | .386 | .603 |

| STEEL VENTILATED | CHANNEL WIDTH (W) | DEPTH (D) | | SUPPORT SPAN (FEET) 2 | 4 | 6 | 8 | 10 |
|---|---|---|---|---|---|---|---|---|
| SPTC SHTC SSTC | 1.5" | ¾" | LOAD (LB./FT.) | 97.5 | 24.4 | 10.8 | 6.1 | 3.9 |
| | | | DEFLECTION (IN.) | .045 | .181 | .408 | .725 | 1.133 |
| | 3" | 1⅜" | LOAD (LB./FT.) | 207.0 | 51.8 | 23.0 | 12.9 | 14.0 |
| | | | DEFLECTION (IN.) | .041 | .163 | .366 | .652 | 1.018 |
| | 4" | 1⅝" | LOAD (LB./FT.) | 363.0 | 90.8 | 40.3 | 22.7 | 19.0 |
| | | | DEFLECTION (IN.) | .030 | .119 | .269 | .477 | .746 |
| | 6" | 1¾" | LOAD (LB./FT.) | 405.0 | 101.3 | 45.0 | 25.3 | 21.0 |
| | | | DEFLECTION (IN.) | .027 | .106 | .239 | .425 | .664 |



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# Channel Tray

## How to create fitting part numbers

1. Select fitting material
2. Select nominal width of fitting
3. Select type of fitting
4. Select degree of angle if required
5. Select radius



*Horizontal Cross*

## Example: ALTF04SHB4512

– Aluminum

– 4" wide

– Horizontal bend

– 45° degree

– 12" radius



*90° Horizontal Bend*

**AL T F 04 S HB 45 12**

**Fitting Material**
**AL** = Aluminum
**SP** = Pre-Galvanized
**SH** = Hot-Dip Galvanized
**SS** = Stainless Steel 316

**Series**
**T** = Cable Channel

**Type**
**F** = Fitting

**Width**
**01** = 1.5"
**03** = 3"
**04** = 4"
**06** = 6"

**Bottom Style**
**S** = Solid Trough

**Fitting Type**
**HB** = Horizontal Bend
**HT** = Horizontal Tee
**HX** = Horizontal Cross
**VO** = Vertical Outside Bend
**VI** = Vertical Inside Bend

**Degree***
**30** = 30°
**45** = 45°
**60** = 60°
**90** = 90°

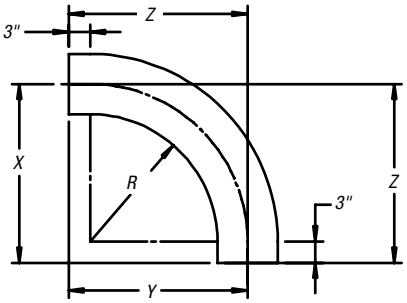
**Radius**
**12** = 12"
**24** = 24"
**0** = Zero Radius†
† Contact your local sales office for availability

** Required for HB, VI and VO only.*

## Channel Tray



*90° Horizontal Bend*




### Catalog Numbering System

| ALT | - | F | 06 | - | S | - | HB | 90 | - | 24 |
|---|---|---|---|---|---|---|---|---|---|---|
| Material | | Fitting | Width | | Bottom Style | | Fitting Type | Angle | | Radius |

### Selection Guide

**Prefix**: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)

**Inside Channel Widths**: 01 = 1.5", 03 = 3", 04 = 4", 06 = 6"

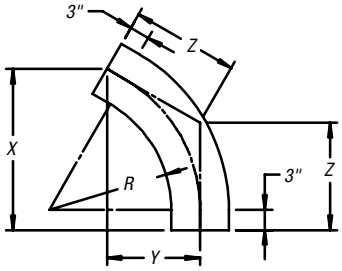
**Bottom Styles**: S – Solid

### 90° Horizontal Bends

| RADIUS (IN.) | WIDTH (IN.) | | DIMENSIONS (IN.) | |
|---|---|---|---|---|
| R | W | CAT. NO. | X | Y |
| 12 | 1.5 | (PREFIX)-F 01-S-HB90-12 | 15¾ | 15¾ |
| | 3 | (PREFIX)-F 03-S-HB90-12 | 16½ | 16½ |
| | 4 | (PREFIX)-F 04-S-HB90-12 | 17 | 17 |
| | 6 | (PREFIX)-F 06-S-HB90-12 | 18 | 18 |
| 24 | 1.5 | (PREFIX)-F 01-S-HB90-24 | 27¾ | 27¾ |
| | 3 | (PREFIX)-F 03-S-HB90-24 | 28½ | 28½ |
| | 4 | (PREFIX)-F 04-S-HB90-24 | 29 | 29 |
| | 6 | (PREFIX)-F 06-S-HB90-24 | 30 | 30 |



*60° Horizontal Bend*




### Catalog Numbering System

| SPT | - | F | 03 | - | S | - | HB | 60 | - | 24 |
|---|---|---|---|---|---|---|---|---|---|---|
| Material | | Fitting | Width | | Bottom Style | | Fitting Type | Angle | | Radius |

### Selection Guide

**Prefix**: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)

**Inside Channel Widths**: 01 = 1.5", 03 = 3", 04 = 4", 06 = 6"

**Bottom Styles**: S – Solid

### 60° Horizontal Bends

| RADIUS (IN.) | WIDTH (IN.) | | DIMENSIONS (IN.) | | |
|---|---|---|---|---|---|
| R | W | CAT. NO. | X | Y | Z |
| 12 | 1.5 | (PREFIX)-F 01-S-HB60-12 | 15½ | 9 | 10¼ |
| | 3 | (PREFIX)-F 03-S-HB60-12 | 16⅜16 | 9⅜ | 10¹³⁄16 |
| | 4 | (PREFIX)-F 04-S-HB60-12 | 16⅝ | 9⅝ | 11⅛16 |
| | 6 | (PREFIX)-F 06-S-HB60-12 | 17½ | 10⅛ | 11¹¹⁄16 |
| 24 | 1.5 | (PREFIX)-F 01-S-HB60-24 | 26 | 15 | 17¼ |
| | 3 | (PREFIX)-F 03-S-HB60-24 | 26⅜16 | 15⅜ | 17¾ |
| | 4 | (PREFIX)-F 04-S-HB60-24 | 27 | 15⅝ | 18 |
| | 6 | (PREFIX)-F 06-S-HB60-24 | 27⅞ | 16⅛ | 18⅜16 |



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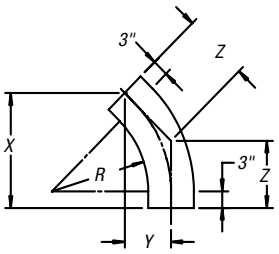
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# Channel Tray



*45° Horizontal Bend*




## Catalog Numbering System

| SPT | - | F | 03 | - | S | - | HB | 45 | - | 24 |
|---|---|---|---|---|---|---|---|---|---|---|
| Material | | Fitting | Width | | Bottom Style | | Fitting Type | Angle | | Radius |

## Selection Guide

**Prefix**: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)

**Inside Channel Widths**: 01 = 1.5", 03 = 3", 04 = 4", 06 = 6"

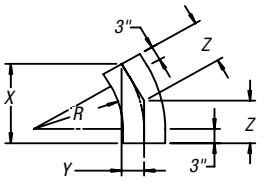
**Bottom Styles**: S – Solid

### 45° Horizontal Bends

| RADIUS (IN.) | WIDTH (IN.) | | DIMENSIONS (IN.) | | |
|---|---|---|---|---|---|
| R | W | CAT. NO. | X | Y | Z |
| 12 | 1.5 | (PREFIX)-F 01-S-HB45-12 | 14 1/8 | 5 7/8 | 8 1/4 |
| | 3 | (PREFIX)-F 03-S-HB45-12 | 14 11/16 | 6 1/16 | 8 9/16 |
| | 4 | (PREFIX)-F 04-S-HB45-12 | 15 | 6 1/4 | 8 13/16 |
| | 6 | (PREFIX)-F 06-S-HB45-12 | 15 3/4 | 6 1/2 | 9 3/16 |
| 24 | 1.5 | (PREFIX)-F 01-S-HB45-24 | 22 5/8 | 9 3/8 | 13 1/4 |
| | 3 | (PREFIX)-F 03-S-HB45-24 | 23 1/8 | 9 9/16 | 13 9/16 |
| | 4 | (PREFIX)-F 04-S-HB45-24 | 23 1/2 | 9 3/4 | 13 3/4 |
| | 6 | (PREFIX)-F 06-S-HB45-24 | 24 3/16 | 10 | 14 3/16 |



*30° Horizontal Bend*




## Catalog Numbering System

| ALT | - | F | 06 | - | S | - | HB | 30 | - | 24 |
|---|---|---|---|---|---|---|---|---|---|---|
| Material | | Fitting | Width | | Bottom Style | | Fitting Type | Angle | | Radius |

## Selection Guide

**Prefix**: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)

**Inside Channel Widths**: 01 = 1.5", 03 = 3", 04 = 4", 06 = 6"

**Bottom Styles**: S – Solid

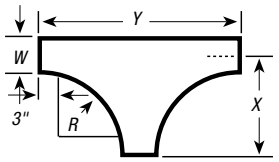
### 30° Horizontal Bends

| RADIUS (IN.) | WIDTH (IN.) | | DIMENSIONS (IN.) | | |
|---|---|---|---|---|---|
| R | W | CAT. NO. | X | Y | Z |
| 12 | 1.5 | (PREFIX)-F 01-S-HB30-12 | 12 | 3 1/4 | 6 1/2 |
| | 3 | (PREFIX)-F 03-S-HB30-12 | 12 3/8 | 3 5/16 | 6 5/8 |
| | 4 | (PREFIX)-F 04-S-HB30-12 | 12 5/8 | 3 3/8 | 6 3/4 |
| | 6 | (PREFIX)-F 06-S-HB30-12 | 13 1/8 | 3 1/2 | 7 |
| 24 | 1.5 | (PREFIX)-F 01-S-HB30-24 | 18 | 4 3/4 | 9 5/8 |
| | 3 | (PREFIX)-F 03-S-HB30-24 | 18 3/8 | 4 15/16 | 9 13/16 |
| | 4 | (PREFIX)-F 04-S-HB30-24 | 18 5/8 | 5 | 9 15/16 |
| | 6 | (PREFIX)-F 06-S-HB30-24 | 19 1/8 | 5 1/8 | 10 1/4 |

## Channel Tray



*Horizontal Tee*




### Catalog Numbering System

| SST | - | F | 04 | - | S | - | HT | - | 24 |
|---|---|---|---|---|---|---|---|---|---|
| Material | | Fitting | Width | | Bottom Style | | Fitting Type | | Radius |

### Selection Guide

**Prefix**: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)

**Inside Channel Widths**: 01 = 1.5", 03 = 3", 04 = 4", 06 = 6"

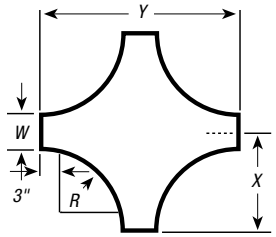
**Bottom Styles**: S – Solid

### Horizontal Tees

| RADIUS (IN.) | WIDTH (IN.) | | DIMENSIONS (IN.) | | |
|---|---|---|---|---|---|
| R | W | CAT. NO. | X | Y | Z |
| 12 | 1.5 | (PREFIX)-F 01-S-HT-12 | 15¾ | 31½ | — |
| | 3 | (PREFIX)-F 03-S-HT-12 | 16½ | 33 | — |
| | 4 | (PREFIX)-F 04-S-HT-12 | 17 | 34 | — |
| | 6 | (PREFIX)-F 06-S-HT-12 | 18 | 36 | — |
| 24 | 1.5 | (PREFIX)-F 01-S-HT-24 | 27¾ | 55½ | — |
| | 3 | (PREFIX)-F 03-S-HT-24 | 28½ | 57 | — |
| | 4 | (PREFIX)-F 04-S-HT-24 | 29 | 58 | — |
| | 6 | (PREFIX)-F 06-S-HT-24 | 30 | 60 | — |



*Horizontal Cross*




### Catalog Numbering System

| ALT | - | F | 04 | - | S | - | HX | - | 24 |
|---|---|---|---|---|---|---|---|---|---|
| Material | | Fitting | Width | | Bottom Style | | Fitting Type | | Radius |

### Selection Guide

**Prefix**: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)

**Inside Channel Widths**: 01 = 1.5", 03 = 3", 04 = 4", 06 = 6"

**Bottom Styles**: S – Solid

### Horizontal Crosses

| RADIUS (IN.) | WIDTH (IN.) | | DIMENSIONS (IN.) | | |
|---|---|---|---|---|---|
| R | W | CAT. NO. | X | Y | Z |
| 12 | 1.5 | (PREFIX)-F 01-S-HX-12 | 15¾ | 31½ | — |
| | 3 | (PREFIX)-F 03-S-HX-12 | 16½ | 33 | — |
| | 4 | (PREFIX)-F 04-S-HX-12 | 17 | 34 | — |
| | 6 | (PREFIX)-F 06-S-HX-12 | 18 | 36 | — |
| 24 | 1.5 | (PREFIX)-F 01-S-HX-24 | 27¾ | 55½ | — |
| | 3 | (PREFIX)-F 03-S-HX-24 | 28½ | 57 | — |
| | 4 | (PREFIX)-F 04-S-HX-24 | 29 | 58 | — |
| | 6 | (PREFIX)-F 06-S-HX-24 | 30 | 60 | — |



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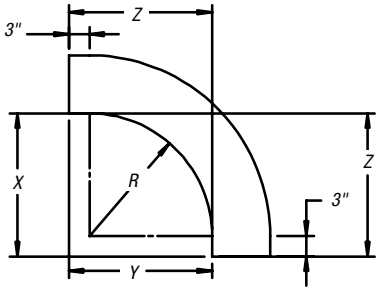
# Channel Tray

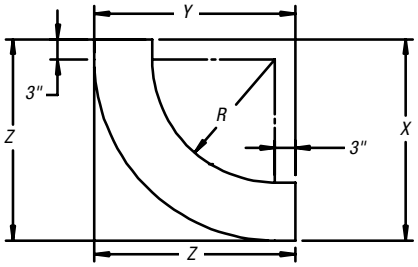


Vertical Outside



Vertical Inside




## Catalog Numbering System

| SPT | - | F | 06 | - | S | - | V0 | 90 | - | 24 |
|---|---|---|---|---|---|---|---|---|---|---|
| Material | | Fitting | Width | | Bottom Style | | Fitting Type | Angle | | Radius |

## Selection Guide

**Prefix**: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)

**Inside Channel Widths**: 01 = 1.5", 03 = 3", 04 = 4", 06 = 6"

**Bottom Styles**: S – Solid

## 90° Vertical Outside Bend

| RADIUS (IN.) | WIDTH (IN.) | CAT. NO. | DIMENSIONS (IN.) X | Y |
|---|---|---|---|---|
| 12 | 1.5 | (PREFIX)-F 01-S-V090-12 | 15 | 15 |
| | 3 | (PREFIX)-F 03-S-V090-12 | 15 | 15 |
| | 4 | (PREFIX)-F 04-S-V090-12 | 15 | 15 |
| | 6 | (PREFIX)-F 06-S-V090-12 | 15 | 15 |
| 24 | 1.5 | (PREFIX)-F 01-S-V090-24 | 15 | 15 |
| | 3 | (PREFIX)-F 03-S-V090-24 | 27 | 27 |
| | 4 | (PREFIX)-F 04-S-V090-24 | 27 | 27 |
| | 6 | (PREFIX)-F 06-S-V090-24 | 27 | 27 |

## 90° Vertical Inside Bend

| RADIUS (IN.) | WIDTH (IN.) | CAT. NO. | DIMENSIONS (IN.) X | Y |
|---|---|---|---|---|
| 12 | 1.5 | (PREFIX)-F 01-S-VI90-12 | 15¾ | 15¾ |
| | 3 | (PREFIX)-F 03-S-VI90-12 | 16½ | 16½ |
| | 4 | (PREFIX)-F 04-S-VI90-12 | 16⅞ | 16⅞ |
| | 6 | (PREFIX)-F 06-S-VI90-12 | 16⅞ | 16⅞ |
| 24 | 1.5 | (PREFIX)-F 01-S-VI90-24 | 27¾ | 27¾ |
| | 3 | (PREFIX)-F 03-S-VI90-24 | 28½ | 28½ |
| | 4 | (PREFIX)-F 04-S-VI90-24 | 28⅞ | 28⅞ |
| | 6 | (PREFIX)-F 06-S-VI90-24 | 28⅞ | 28⅞ |

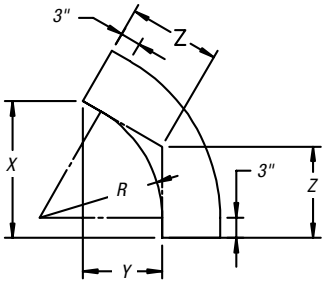
## Channel Tray

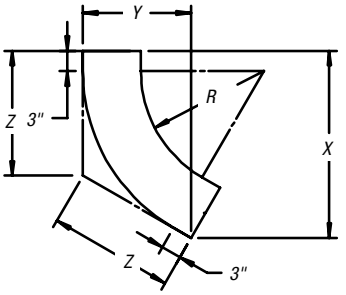


Vertical Outside



Vertical Inside




### Catalog Numbering System

| SST | - | F | 04 | - | S | - | VI | 60 | - | 24 |
|---|---|---|---|---|---|---|---|---|---|---|
| Material | | Fitting | Width | | Bottom Style | | Fitting Type | Angle | | Radius |

### Selection Guide

**Prefix**: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)

**Inside Channel Widths**: 01 = 1.5", 03 = 3", 04 = 4", 06 = 6"

**Bottom Styles**: S – Solid

### 60° Vertical Outside Bend

| RADIUS (IN.) | WIDTH (IN.) | CAT. NO. | DIMENSIONS (IN.) X | Y | Z |
|---|---|---|---|---|---|
| 12 | 1.5 | (PREFIX)-F 01-S-V060-12 | 14⅞ | 8⅝ | 9⅞ |
| | 3 | (PREFIX)-F 03-S-V060-12 | 14⅞ | 8⅝ | 9⅞ |
| | 4 | (PREFIX)-F 04-S-V060-12 | 14⅞ | 8⅝ | 9⅞ |
| | 6 | (PREFIX)-F 06-S-V060-12 | 14⅞ | 8⅝ | 9⅞ |
| 24 | 1.5 | (PREFIX)-F 01-S-V060-24 | 25¼ | 14⅝ | 16⅞ |
| | 3 | (PREFIX)-F 03-S-V060-24 | 25¼ | 14⅝ | 16⅞ |
| | 4 | (PREFIX)-F 04-S-V060-24 | 25¼ | 14⅝ | 16⅞ |
| | 6 | (PREFIX)-F 06-S-V060-24 | 25¼ | 14⅝ | 16⅞ |

### 60° Vertical Inside Bend

| RADIUS (IN.) | WIDTH (IN.) | CAT. NO. | DIMENSIONS (IN.) X | Y | Z |
|---|---|---|---|---|---|
| 12 | 1.5 | (PREFIX)-F 01-S-VI60-12 | 15½ | 9 | 10¼ |
| | 3 | (PREFIX)-F 03-S-VI60-12 | 16⅛ | 9¼ | 10¾ |
| | 4 | (PREFIX)-F 04-S-VI60-12 | 16¼ | 9⅜ | 10⅞ |
| | 6 | (PREFIX)-F 06-S-VI60-12 | 16⅜ | 9½ | 11 |
| 24 | 1.5 | (PREFIX)-F 01-S-VI60-24 | 26 | 15 | 17¼ |
| | 3 | (PREFIX)-F 03-S-VI60-24 | 26½ | 15¼ | 17⅝ |
| | 4 | (PREFIX)-F 04-S-VI60-24 | 26¾ | 15⅜ | 17¾ |
| | 6 | (PREFIX)-F 06-S-VI60-24 | 26¾ | 15½ | 17⅞ |



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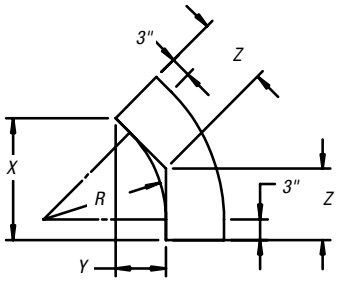
## Channel Tray

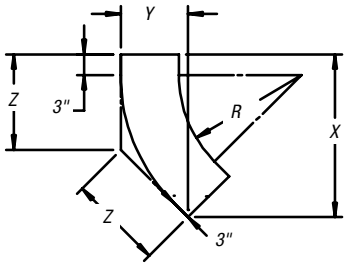


*Vertical Outside*



*Vertical Inside*




### Catalog Numbering System

| SST | - | F | 04 | - | S | - | VI | 45 | - | 24 |
|---|---|---|---|---|---|---|---|---|---|---|
| Material | | Fitting | Width | | Bottom Style | | Fitting Type | Angle | | Radius |

### Selection Guide

**Prefix**: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)

**Inside Channel Widths**: 01 = 1.5", 03 = 3", 04 = 4", 06 = 6"

**Bottom Styles**: S – Solid

### 45° Vertical Outside Bend

| RADIUS (IN.) | WIDTH (IN.) | CAT. NO. | DIMENSIONS (IN.) X | Y | Z |
|---|---|---|---|---|---|
| 12 | 1.5 | (PREFIX)-F 01-S-VO45-12 | 13⅜ | 5⅝ | 8 |
| | 3 | (PREFIX)-F 03-S-VO45-12 | 13⅜ | 5⅝ | 8 |
| | 4 | (PREFIX)-F 04-S-VO45-12 | 13⅜ | 5⅝ | 8 |
| | 6 | (PREFIX)-F 06-S-VO45-12 | 13⅜ | 5⅝ | 8 |
| 24 | 1.5 | (PREFIX)-F 01-S-VO45-24 | 22⅛ | 9⅛ | 12⅞ |
| | 3 | (PREFIX)-F 03-S-VO45-24 | 22⅛ | 9⅛ | 13 |
| | 4 | (PREFIX)-F 04-S-VO45-24 | 11 | 11 | 13 |
| | 6 | (PREFIX)-F 06-S-VO45-24 | 11 | 11 | 13 |

### 45° Vertical Inside Bend

| RADIUS (IN.) | WIDTH (IN.) | CAT. NO. | DIMENSIONS (IN.) X | Y | Z |
|---|---|---|---|---|---|
| 12 | 1.5 | (PREFIX)-F 01-S-VI45-12 | 14⅛ | 5⅛ | 9 |
| | 3 | (PREFIX)-F 03-S-VI45-12 | 14⅝ | 6 | 8½ |
| | 4 | (PREFIX)-F 04-S-VI45-12 | 14¾ | 7⅛ | 8⅝ |
| | 6 | (PREFIX)-F 06-S-VI45-12 | 14⅞ | 11 | 8¾ |
| 24 | 1.5 | (PREFIX)-F 01-S-VI45-24 | 22⅝ | 8⅝ | 13½ |
| | 3 | (PREFIX)-F 03-S-VI45-24 | 23 | 9½ | 13½ |
| | 4 | (PREFIX)-F 04-S-VI45-24 | 23¼ | 9⅝ | 13⅝ |
| | 6 | (PREFIX)-F 06-S-VI45-24 | 23⅜ | 9⅝ | 13⅝ |

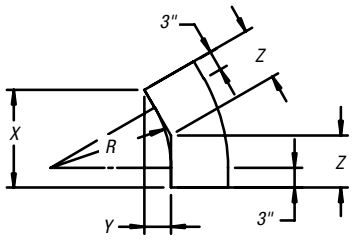
## Channel Tray

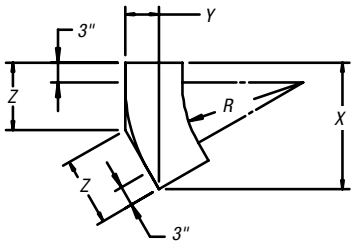


*Vertical Outside*



*Vertical Inside*




### Catalog Numbering System

| SPT | - | F | 06 | - | S | - | V0 | 30 | - | 24 |
|---|---|---|---|---|---|---|---|---|---|---|
| Material | | Fitting | Width | | Bottom Style | | Fitting Type | Angle | | Radius |

### Selection Guide

**Prefix**: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)

**Inside Channel Widths**: 01 = 1.5", 03 = 3", 04 = 4", 06 = 6"

**Bottom Styles**: S – Solid

### 30° Vertical Outside Bends

| RADIUS (IN.) | WIDTH (IN.) | CAT. NO. | DIMENSIONS (IN.) X | Y | Z |
|---|---|---|---|---|---|
| 12 | 1.5 | (PREFIX)-F 01-S-V030-12 | 10⅛ | 1⅞ | 5¼ |
| | 3 | (PREFIX)-F 03-S-V030-12 | 11⅝ | 3⅛ | 6⅛ |
| | 4 | (PREFIX)-F 04-S-V030-12 | 11⅝ | 3⅛ | 6⅛ |
| | 6 | (PREFIX)-F 06-S-V030-12 | 11⅝ | 3⅛ | 6⅛ |
| 24 | 1.5 | (PREFIX)-F 01-S-V030-24 | 17⅝ | 4¾ | 9½ |
| | 3 | (PREFIX)-F 03-S-V030-24 | 17⅝ | 4¾ | 9¼ |
| | 4 | (PREFIX)-F 04-S-V030-24 | 17⅝ | 4¾ | 9¼ |
| | 6 | (PREFIX)-F 06-S-V030-24 | 17⅝ | 4¾ | 9¼ |

### 30° Vertical Inside Bends

| RADIUS (IN.) | WIDTH (IN.) | CAT. NO. | DIMENSIONS (IN.) X | Y | Z |
|---|---|---|---|---|---|
| 12 | 1.5 | (PREFIX)-F 01-S-VI30-12 | 10⅜ | 1⅞ | 5⅜ |
| | 3 | (PREFIX)-F 03-S-VI30-12 | 12¼ | 3½ | 6⅜ |
| | 4 | (PREFIX)-F 04-S-VI30-12 | 12⅜ | 3⅜ | 5⅜ |
| | 6 | (PREFIX)-F 06-S-VI30-12 | 12½ | 3⅜ | 5⅜ |
| 24 | 1.5 | (PREFIX)-F 01-S-VI30-24 | 18 | 4¾ | 9⅜ |
| | 3 | (PREFIX)-F 03-S-VI30-24 | 18¼ | 4⅞ | 9¾ |
| | 4 | (PREFIX)-F 04-S-VI30-24 | 18⅜ | 4⅞ | 9⅞ |
| | 6 | (PREFIX)-F 06-S-VI30-24 | 18½ | 5 | 9⅞ |



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## Channel Tray

# Straight Section Covers Catalog Number Selection Guide



### Tray Covers

Tray covers are available for all widths of tray. They should be installed where falling objects may damage cables or where a vertical tray run is accessible by pedestrian or vehicular traffic.

***Note:*** *Cover mounting hardware must be ordered separately.*

### Straight Covers

These covers provide maximum mechanical protection for cables with limited heat build up. Flanged covers have ½" flange.

**AL T F 03 SFC 3**

| Material* | Series | Type | Width | Bottom Style | Length |
|---|---|---|---|---|---|
| **AL** = Aluminum<br>**SP** = Pre-Galvanized<br>**SH** = Hot-Dip Galvanized<br>**SS** = Stainless Steel 316 | **T** = Cable Channel | **Accessory**<br>i.e.: Straight Cover | **01** = 1.5"<br>**03** = 3"<br>**04** = 4"<br>**06** = 6" | **SFC** = Solid Flanged Covers | **3** = 10 ft.<br>**72** = 6 ft. |

** Hot-Dip Galvanized Covers only available in 1500mm lengths.*

### Quantity of Standard Cover Clamps Required

| | |
|---|---|
| Straight section (10 ft.) | 6 pieces |

***Note:*** *When using the Heavy-Duty Cover Clamps, only half the quantity of pieces are required.*

# Fitting Covers Catalog Number Selection Guide



### Tray Covers

Tray covers are available for all widths of tray. They should be installed where falling objects may damage cables or where a vertical tray run is accessible by pedestrian or vehicular traffic.

***Note:*** *Cover mounting hardware must be ordered separately.*

### Fitting Covers

Fitting covers are available to complete your cable channel layout. All fitting covers are flanged.

**AL T F 06 HBC 45 12**

| Material | Series | Type | Width | Fitting Type Cover | Degree* | Radius |
|---|---|---|---|---|---|---|
| **AL** = Aluminum<br>**SP** = Pre-Galvanized<br>**SH** = Hot-Dip Galvanized<br>**SS** = Stainless Steel 316 | **T** = Cable Channel | **F** = Fitting Cover | **01** = 1.5"<br>**03** = 3"<br>**04** = 4"<br>**06** = 6" | **HBC** = Horizontal Bend<br>**HTC** = Horizontal Tee<br>**HXC** = Horizontal Cross<br>**VOB** = Vertical Outside Bend<br>**VIB** = Vertical Inside Bend | **30** = 30°<br>**45** = 45°<br>**60** = 60°<br>**90** = 90° | **12** = 12"<br>**24** = 24"<br>**0** = Zero Radius†<br>† Contact your local sales office for availability |

** Required for HB, VI and VO only.*

### Quantity of Standard Cover Clamps Required

| | |
|---|---|
| Horizontal and Vertical Bends | 4 pieces |
| Tees | 6 pieces |
| Crosses | 8 pieces |

***Note:*** *When using the Heavy-Duty Cover Clamps, only half the quantity of pieces are required.*

# Channel Tray

## Selection Guide

**Prefix**: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)

**Inside Channel Widths**: 01 = 1.5", 03 = 3", 04 = 4", 06 = 6"

### Standard 1.5" Splice Plate



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-01-CCS | 1.5" |

*Supplied standard with each length.*

### Standard Splice Plate



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-03-CCS | 3" |
| (PREFIX)-W-04-CCS | 4" |
| (PREFIX)-W-06-CCS | 6" |

*Supplied standard with each length.*

### Expansion Splice Plate



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-03-ESP | 3" |
| (PREFIX)-W-04-ESP | 4" |
| (PREFIX)-W-06-ESP | 6" |

### Wraparound Splice Plate



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-01-ACS | 1.5" |
| (PREFIX)-W-03-ACS | 3" |
| (PREFIX)-W-04-ACS | 4" |
| (PREFIX)-W-06-ACS | 6" |

### Adjustable Horizontal Splice Plate



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-01-CHA | 1.5" |
| (PREFIX)-W-03-CHA | 3" |
| (PREFIX)-W-04-CHA | 4" |
| (PREFIX)-W-06-CHA | 6" |

### Standard Vertical Adjustable Splice Plate



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-01-CCV | 1.5" |
| (PREFIX)-W-03-CCV | 3" |
| (PREFIX)-W-04-CCV | 4" |
| (PREFIX)-W-06-CCV | 6" |

### Wraparound Vertical Adjustable Splice Plate



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-01-WAV | 1.5" |
| (PREFIX)-W-03-WAV | 3" |
| (PREFIX)-W-04-WAV | 4" |
| (PREFIX)-W-06-WAV | 6" |



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# Channel Tray

### Selection Guide

**Prefix**: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)

**Inside Channel Widths**: 01 = 1.5", 03 = 3", 04 = 4", 06 = 6"

## Closed End Plate



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-01-CEP | 1.5" |
| (PREFIX)-W-03-CEP | 3" |
| (PREFIX)-W-04-CEP | 4" |
| (PREFIX)-W-06-CEP | 6" |

## Channel to Cable Tray Plate



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-01-CCT | 1.5" |
| (PREFIX)-W-03-CCT | 3" |
| (PREFIX)-W-04-CCT | 4" |
| (PREFIX)-W-06-CCT | 6" |

## Channel Straight Reducer Plate



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-03-01-RSP | 3" to 1" |
| (PREFIX)-W-04-01-RSP | 4" to 1" |
| (PREFIX)-W-06-01-RSP | 6" to 1" |
| (PREFIX)-W-04-03-RSP | 4" to 3" |
| (PREFIX)-W-06-03-RSP | 6" to 3" |
| (PREFIX)-W-06-04-RSP | 6" to 4" |

## Channel to Floor Base Plate



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-01-CBP | 1.5" |
| (PREFIX)-W-03-CBP | 3" |
| (PREFIX)-W-04-CBP | 4" |
| (PREFIX)-W-06-CBP | 6" |

## Channel Tray

### Standard Hold-Down Clamp

- Available in Aluminum (ALT), Pre-Galvanized (SPT), Hot-Dipped Galvanized (SHT) and Stainless Steel (SST)



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-01-SHC | 1.5" |
| (PREFIX)-W-03-SHC | 3" |
| (PREFIX)-W-04-SHC | 4" |
| (PREFIX)-W-06-SHC | 6" |

### Channel Expansion Guide Clamp

- Available in Aluminum (ALT), Pre-Galvanized (SPT), Hot-Dipped Galvanized (SHT) and Stainless Steel (SST)



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-01-CEG | 1.5" |
| (PREFIX)-W-03-CEG | 3" |
| (PREFIX)-W-04-CEG | 4" |
| (PREFIX)-W-06-CEG | 6" |

### Combination Hold-Down/Cover Clamp

- Available in Aluminum (ALT), Pre-Galvanized (SPT), Hot-Dipped Galvanized (SHT) and Stainless Steel (SST)



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-01-CCC | 1.5" |
| (PREFIX)-W-03-CCC | 3" |
| (PREFIX)-W-04-CCC | 4" |
| (PREFIX)-W-06-CCC | 6" |

### Heavy-Duty Cover Clamp

- Available in Aluminum (ALT), Pre-Galvanized (SPT), Hot-Dipped Galvanized (SHT) and Stainless Steel (SST)



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-01-HCC | 1.5" |
| (PREFIX)-W-03-HCC | 3" |
| (PREFIX)-W-04-HCC | 4" |
| (PREFIX)-W-06-HCC | 6" |



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# Channel Tray

## Channel Mounting Bracket

- Available in Pre-Galvaninzed (SPT) and Hot-Dip Galvanized (SHT)



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-01-CCB | 1.5" |
| (PREFIX)-W-03-CCB | 3" |
| (PREFIX)-W-04-CCB | 4" |
| (PREFIX)-W-06-CCB | 6" |

## Channel to Tray Mounting Bracket

- Available in Pre-Galvaninzed (SPT) and Hot-Dip Galvanized (SHT)



| CAT. NO. | WIDTH |
|---|---|
| (PREFIX)-W-01-TCB | 1.5" |
| (PREFIX)-W-03-TCB | 3" |
| (PREFIX)-W-04-TCB | 4" |
| (PREFIX)-W-06-TCB | 6" |

## Single-Channel Hanger

- Available in Pre-Galvaninzed (SPT) and Hot-Dip Galvanized (SHT)

***Note:*** *Designed for use with ½" threaded rod.*



| CAT. NO. | WIDTH |
|---|---|
| SPT-W-06-CCH | For use with all widths |
| SHT-W-06-CCH | |

## Double-Channel Hanger

- Available in Pre-Galvaninzed (SPT) and Hot-Dip Galvanized (SHT)

***Note:*** *Designed for use with ½" threaded rod.*



| CAT. NO. | WIDTH |
|---|---|
| SPT-W-06-DCH | For use with all widths |
| SHT-W-06-DCH | |

## Common Accessories

# T&B® Cable Roller System

**Why should rollers be used?**

1. To reduce pulling stress on cables, avoiding undue fatigue or abrasions
2. To minimize harmful "shear" load placed on cable trays
3. To reduce installation time

**Why purchase the T&B® Cable Roller System?**

- Universal — fits virtually all tray systems
- Mounts from bottom of cable tray, eliminating the need for double handling cables and reducing possibility of cable damage
- Sideways telescopic adjustment allows rollers to accommodate virtually all tray widths
- Nylon bearings require no lubrication
- Independent rollers limit cable abrasion



*Straight Roller*



*Corner Roller*

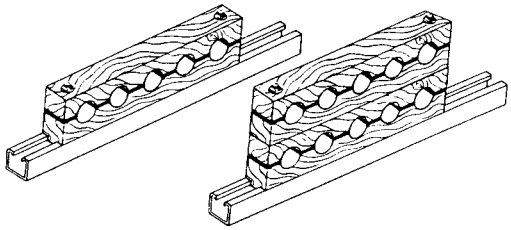
| CAT. NO. | DESCRIPTION | FITS |
|---|---|---|
| VHR04 | Corner | All Profiles |

| CAT. NO. | DESCRIPTION | FITS |
|---|---|---|
| HAR 1224 | Straight | All Profiles<br>12" to 24" (30cm to 60cm) |
| HAR 1836 | Straight | All Profiles<br>18" to 36" (45cm to 90cm) |

## Custom Maple Hardwood Block

- Multiple cable blocks can be made to your specific requirements
- Cable blocks ensure proper separation of single-conductor cables and prevent any interference due to magnetic fields
- Paraffin wax impregnated to prevent moisture from penetrating and causing rotting and splitting
- Cable blocks are also available in nylon and high-density polyethylene
- Electrogalvanized hardware included; stainless steel hardware also available upon request







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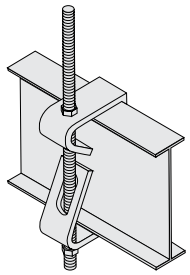
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# Common Accessories

## Hanger Rod Clamp Kits

- Designed for ladder and ventilated cable tray
- Provide a fast and economical solution for a suspended cable tray installation
- One kit is needed per each threaded rod location
- Kit consists of one bottom clamp and one top clamp and uses ½" threaded rod (order separately)
- 250-lb. capacity per kit





### For Steel Cable Tray

| CAT. NO. | HEIGHT |
|---|---|
| (*)-3-HRC | 3" |
| (*)-4-HRC | 4" |
| (*)-5-HRC | 5" |
| (*)-6-HRC | 6" |
| (*)-7-HRC | 7" |

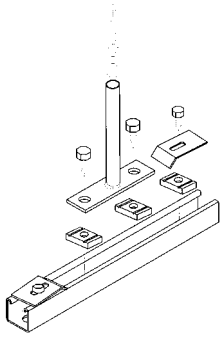
*(*) Insert Pre-Galvanized (SPW), Hot-Dip Galvanized (SHW) or Stainless Steel 316 (SSW) prefix.*

### For Aluminum Cable Tray

| CAT. NO. | TRAY SERIES | CAT. NO. | TRAY SERIES | CAT. NO. | TRAY SERIES |
|---|---|---|---|---|---|
| ABW04HRC | AH04 | ABW25HRC | AH25 | ABW46HRC | AH46 |
| ABW14HRC | AH14 | ABW35HRC | AH35 | ABW56HRC | AH56 |
| ABW24HRC | AH24 | ABW45HRC | AH45 | ABW66HRC | AH66 |
| ABW34HRC | AH34 | ABW16HRC | AH16 | ABW27HRC | AH27 |
| ABW44HRC | AH44 | ABW26HRC | AH26 | ABW37HRC | AH37 |
| ABW54HRC | AH54 | ABW36HRC | AH36 | | |

## Center Support Bracket

- Reduces cable pulling by allowing access from both sides of cable tray
- Installation cost and time are reduced significantly by single-point suspension
- Supplied as a complete kit
- Uses ½" threaded rod (order separately)
- For use with up to 24"-wide tray
- Load capacity is 700 lb. per kit

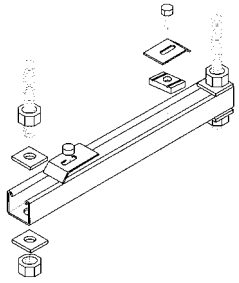




| CAT. NO. | MATERIAL | CHANNEL WIDTH | TRAY WIDTH |
|---|---|---|---|
| SHW18CSB | Hot-Dip Galvanized | 18" | 6"<br>9" |
| SHW30CSB | Hot-Dip Galvanized | 30" | 12"<br>18"<br>24" |

## Trapeze Kit

- Supports various cable tray widths in a suspending installation





| CAT. NO. | TRAY WIDTH | CHANNEL WIDTH |
|---|---|---|
| (*)-06-TPK | 6" | 16⅞" |
| (*)-09-TPK | 9" | 18¾" |
| (*)-12-TPK | 12" | 22½" |
| (*)-18-TPK | 18" | 28⅛" |
| (*)-24-TPK | 24" | 35⅝" |
| (*)-30-TPK | 30" | 41¼" |
| (*)-36-TPK | 36" | 46⅞" |
| (*)-42-TPK | 42" | 52½" |

*(*) Insert Hot-Dip Galvanized (SHW), Pre-Galvanized (SPW) or Stainless Steel 316 (SSW) prefix.*

Kit consists of:

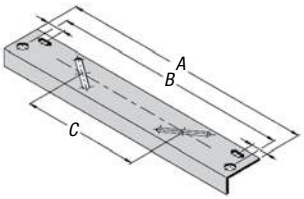
- (1) piece of strut cut to length
- (2) hold-down clips
- (2) ⅜" x ⅞" hex-head cap screws
- (4) ⅜" strut nuts
- (4) ½" hex nuts
- (4) ½" square washers

Kit uses ½" threaded rod (order separately)

# Common Accessories

## Cross Member

- Hanging rods not included
- Hot-dipped galvanized finish



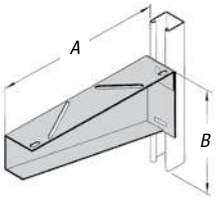



| CAT. NO. | A | B | C |
|---|---|---|---|
| S202-6HDG | 6 | 5 | — |
| S202-9HDG | 9 | 8 | 2 |
| S202-15HDG | 5 | 14 | 8 |
| S202-21HDG | 21 | 20 | 14 |
| S202-27HDG | 27 | 26 | 20 |
| S202-33HDG | 33 | 32 | 26 |

***Note:*** *Order hold-down clips (SSW-SHC) separately.*

## Cantilever Support

- Hot-dipped galvanized finish






| CAT. NO. | A | B | DESIGN LOAD/LBS. |
|---|---|---|---|
| S203-8HDG | 8½ | 4 1/16 | 1200 |
| S203-14HDG | 14½ | 5⅜ | 1200 |
| S203-20HDG | 20½ | 6 11/16 | 1200 |
| S203-26HDG | 26½ | 8 | 1200 |
| S203-32HDG | 32½ | 8 | 1200 |
| S203-38HDG | 38½ | 8 | 1200 |

***Note:*** *Order hold-down clips (SSW-SHC) separately.*

## Conduit to Cable Tray Clamp

- Made from steel
- Electro-galvanized finish



| CAT. NO. | CONDUIT SIZE (INCHES) |
|---|---|
| 6210 | ½–¾ |
| 6212 | 1–1¼ |

## Conduit to Cable Tray Swivel Clamp

- For aluminum and steel trays with regular or reinforced flanges
- Serrations and biting teeth on clamping saddle provide a high-quality bond between conduit and clamp
- Clamp to any position in a 90° arc
- Malleable iron hub and steel U-bolt
- Zinc-plated finish



| CAT. NO. | CONDUIT SIZE (INCHES) |
|---|---|
| 6209 | ½–¾ |
| 6211 | 1–1¼ |
| 6214 | 1½–2 |
| 6216 | 2½–3 |
| 6218 | 3½–4 |



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# Grounding and Bonding

## Economical Cable Tray Ground Clamp

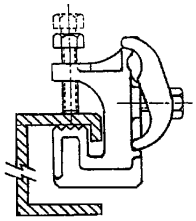
- Made from malleable iron
- Zinc-plated finish



| CAT. NO. | DESCRIPTION |
|---|---|
| 10103TB | For single conductor #4 solid to 4/0 str. |
| MA2GC | For single conductor #4 solid to 4/0 str.; includes Superstrut® springless channel nut for easy installation in cable tray rungs |

## Cable Tray Ground Clamp

- Made from malleable iron
- Zinc-plated finish





*10109*

| CAT. NO. | DESCRIPTION |
|---|---|
| 10105 | For single conductor #4 solid to 2/0 str. |
| 10109 | For single conductor 2/0 solid to 4/0 str. |

## Blackburn® Ground Clamp

- Bolt has square shank to prevent turning and allows clamp to be tightened with one wrench
- Made from copper alloy
- Tin-plated finish for aluminum cable tray





*Figure 1*



*Figure 2*

| CAT. NO. | CONDUCTOR RANGE MIN. | CONDUCTOR RANGE MAX. | FIGURE |
|---|---|---|---|
| GTC13P | #4 sol. | 2/0 str. | 1 |
| GTC14P | 2/0 str. | 250 kcmil | 1 |
| GTC23P | #4 sol. | 2/0 str. | 2 |
| GTC24P | 2/0 str. | 250 kcmil | 2 |

*Castings are of high-strength, corrosion-resistant copper alloy.*

# Grounding and Bonding

## Blackburn® Cable Tray Ground Clamp

- Made from copper alloy
- Tin-plated finish



| CAT. NO. | DESCRIPTION |
|---|---|
| CTG250 | For parallel or tapping applications, #2 solid to 250 kcmil |

## Blackburn® Lay-in Lug

- Dual-rated grounding connector for aluminum and copper conductors
- Open-faced design enables you to quickly lay-in the grounding connector as a jumper
- Made from tin-plated high-strength 6061-T6 aluminum alloy



| | CONDUCTOR RANGE | | STUD SIZE | |
|---|---|---|---|---|
| CAT. NO. | MIN. | MAX. | IN. | MM² |
| LL306 | #6 solid | 3/0 str. | .33 | 8.38 |
| LL2506 | #6 str. | 250 kcmil | .33 | 8.38 |

## Bonding Jumpers

- Made from copper
- Tin-plated finish



| CAT. NO. | BONDING AMP CAPACITY | SINGLE BOLT HOLE | DESCRIPTION |
|---|---|---|---|
| FBD12-1* | 600 Amps | 7/16 | 12" flat flexible braid |
| FBD16-1* | 600 Amps | 7/16 | 16" flat flexible braid |
| FBE12-1* | 1200 Amps | 9/16 | 12" flat flexible braid |
| FBE16-1* | 1200 Amps | 9/16 | 16" flat flexible braid |
| FBG12-1* | 2000 Amps | 9/16 | 12" flat flexible braid |
| FBG16-1* | 2000 Amps | 9/16 | 16" flat flexible braid |

** Listed UL 467 & 486A, certified CSA C22.2 No. 41 for grounding & bonding equipment.*

*Custom lengths are available.*

***Important:** Bonding Jumpers are required for expansion joints as well as adjustable joints. Please note due to the overall length of the expansion plate, a 12"-long bonding jumper is no longer sufficent to span the joint properly.*



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# Grounding and Bonding



**Table 1**
**NEC® Table 392.60(A)**
**Metal Area Requirements for Cable Trays Used as Equipment Grounding Conductors**

| Maximum Fuse Ampere Rating, Circuit Breaker Ampere Trip Setting, or Circuit Breaker Protective Relay Ampere Trip Setting for Ground Fault Protection of Any Cable Circuit in the Cable Tray System | MINIMUM CROSS-SECTIONAL AREA OF METAL* IN SQUARE INCHES | |
|---|---|---|
| | STEEL CABLE TRAYS | ALUMINUM CABLE TRAYS |
| 60 | .20 | .20 |
| 100 | .40 | .20 |
| 200 | .70 | .20 |
| 400 | 1.00 | .40 |
| 600 | 1.50 ** | .40 |
| 1000 | — | .60 |
| 1200 | — | 1.00 |
| 1600 | — | 1.50 |
| 2000 | — | 2.00 ** |

*For SI units, one square inch = 645 square millimeters.*

** Total cross-sectional area of both side rails for ladder or trough-type cable trays or the minimum cross-sectional area of metal in channel-type cable trays or cable trays of one-piece construction.*

*** Steel cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 600 amperes. Aluminum cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 2000 amperes.*

*For larger ampere ratings, an additional grounding conductor must be used.*

*For more information on grounding and bonding cable tray, refer to Section 4.7 of the new NEMA VE 2 Cable Tray Installation Guidelines.*

**Table 2**
**Minimum Size Equipment Grounding Conductors for Grounding & Bonding Raceway and Equipment (Based on NEC Table 250.122 and CEC Table 16)**

| Rating or Setting of Automatic Overcurrent Device in Circuit Ahead of Equipment, Conduit, etc. Not Exceeding (Amperes) | SIZE | |
|---|---|---|
| | COPPER WIRE NO. | ALUMINUM OR COPPER-CLAD ALUMINUM WIRE NO.* |
| 15 | 14 | 12 |
| 20 | 12 | 10 |
| 30 | 10 | 8 |
| 40 | 10 | 8 |
| 60 | 10 | 8 |
| 100 | 8 | 6 |
| 200 | 6 | 4 |
| 300 | 4 | 2 |
| 400 | 3 | 1 |
| 500 | 2 | 1/0 |
| 600 | 1 | 2/0 |
| 800 | 1/0 | 3/0 |
| 1000 | 2/0 | 4/0 |
| 1200 | 3/0 | 250 kcmil |
| 1600 | 4/0 | 350 kcmil |
| 2000 | 250 kcmil | 400 kcmil |
| 2500 | 350 kcmil | 600 kcmil |
| 3000 | 400 kcmil | 600 kcmil |
| 4000 | 500 kcmil | 800 kcmil |
| 5000 | 700 kcmil | 1200 kcmil |
| 6000 | 800 kcmil | 1200 kcmil |

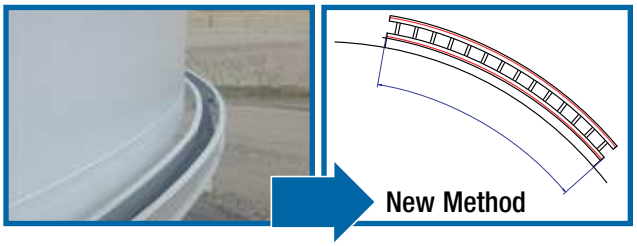
** See installation restrictions in NEC Section 250.120.*

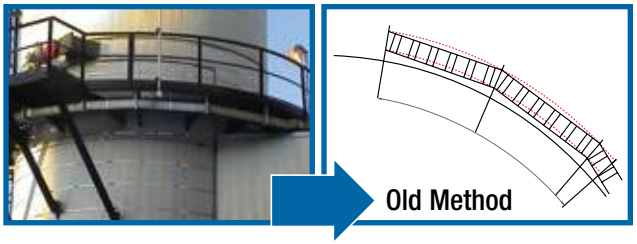
*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

## Options

# Large-Radius Aluminum Cable Tray

- No mitered joints
- No bent splice plate
- Less costly
- Easier to install
- Faster to install
- Fewer skills required to install
- Cleaner lines
- More resistant support structure
- Improved functionality and aesthetics

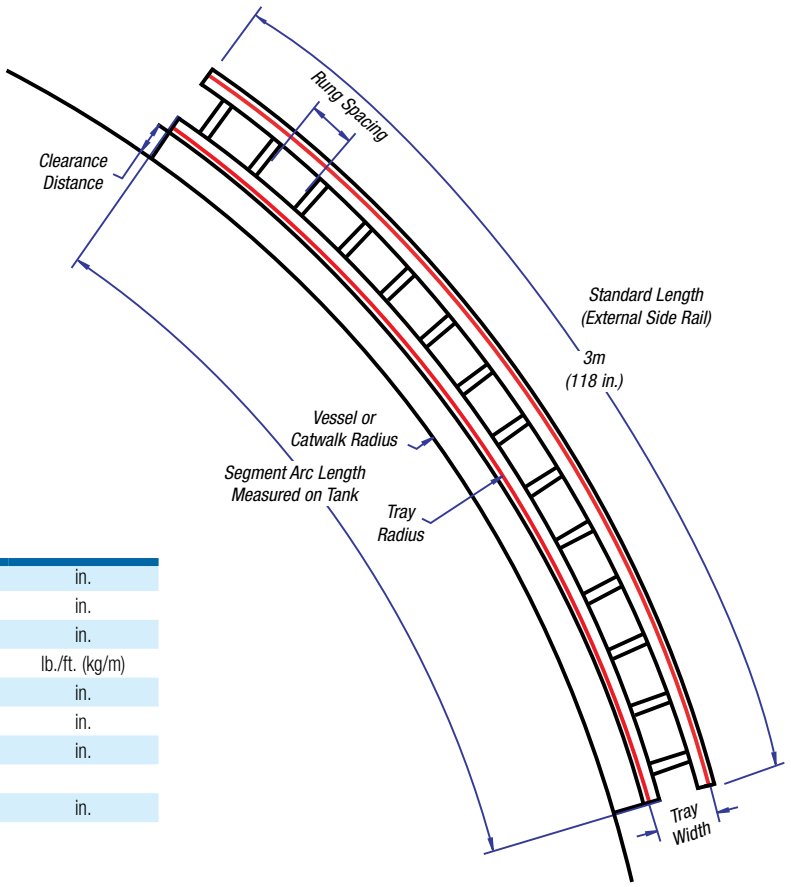



The custom-built cable support system makes this cable tray design ideal for petrochemical tanks and towers as well as other applications requiring a wider radius.

Thomas & Betts takes pride in manufacturing a complete system to meet your most rigorous requirements. Our cable support systems reduce the costly and labor-intensive modifications required to assemble straight sections, splice plates and accessories that fit in your tank or vessel.

Thomas & Betts Large-Radius Aluminum Cable Tray systems mount flawlessly with no extra cutting, set-up or surplus material. With the option of pre-assembly of this cable tray system prior to erection of the tank or vessel, you can drastically reduce installing time.




### Data Required for Quotation

| | |
|---|---|
| Height of the Cable Tray | in. |
| Width of the Cable Tray | in. |
| Rung Spacing Required | in. |
| Load Rating and Support Span | lb./ft. (kg/m) |
| Radius of Tank or Vessel | in. |
| Clearance Distance | in. |
| Segment Arc Length (measured on structure) | in. |
| Quantity Required (number of segments) | |
| Total Arc Length (= segment arc length x quantity) | in. |



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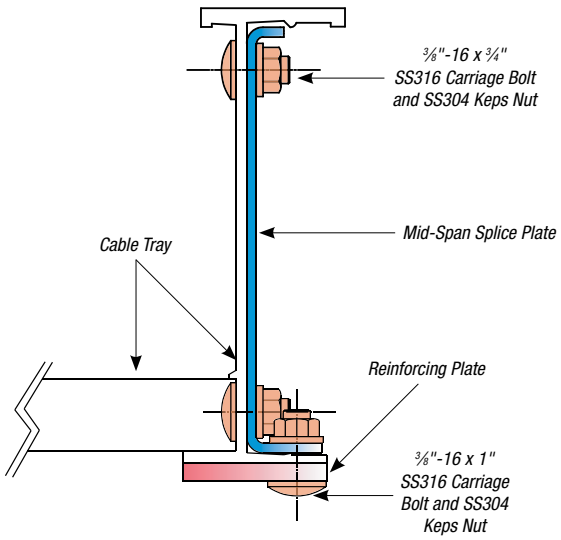
## Options

# Aluminum Mid-Span Splice Plate

- Factory pre-drilled side rails for easy installation
- Allows random splice location
- Tested loading 160 lb./ft., based on a 20-ft. simple beam test with 1.5 safety factor (tested with AH66 series)
- Supplied with stainless steel type 316 hardware
- Great for ladder, vented or solid tray style
- Only available for the following series of aluminum trays: AH46, AH56, AH66 and AH76*

** 20-ft. support span only.*






## Typical Installation of Mid-Span Splice Plate

These heavy-duty splice plates are designed to allow random splice location, including the midspan for 20-ft. support spans. These splices are available for all long-span ladder, vented or solid tray styles.

***Note:*** *Also available on fittings to complete the system if required. Please consult the factory for more information.*

**AMS 4 - 6 - 24 - L09 - 6**

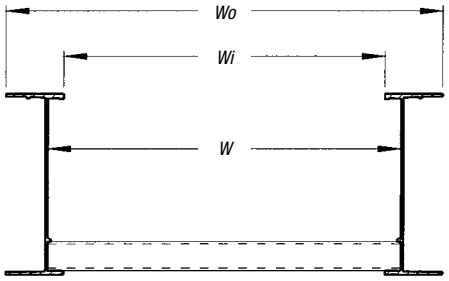
| Material Style | Series | Side Rail Depth | Width | Bottom Type | Length |
|---|---|---|---|---|---|
| **AMS** = Mid-Span Splice | **4** = Series 4<br>**5** = Series 5<br>**6** = Series 6<br>**7** = Series 7 | **6"** | **06** = 6"<br>**09** = 9"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **L06** = 6" Rung Spacing<br>**L09** = 9" Rung Spacing<br>**L12** = 12" Rung Spacing<br>**V** = Ventilated<br>**S** = Soilid Trough | **6** = 6m<br>**288** = 24 ft. |

To order straight sections with Mid-Span Splice Plate, replace "AH" in the standard part number with "AMS".

**Example:** **AH**6624L12-6
**AMS**6624L12-6

## Options

# Long-Span Systems — 30-ft. Straight Sections, Series 7–6, 4–7, 1–8






| | AH7-6 | | AH4-7 | | AH1-8 | |
|---|---|---|---|---|---|---|
| W (IN.) | WI (IN.) | WO (IN.) | WI (IN.) | WO (IN.) | WI (IN.) | WO (IN.) |
| 6 | 4.92 | 8.92 | 4.62 | 8.62 | 4.55 | 10.55 |
| 9 | 7.92 | 11.92 | 7.62 | 11.62 | 7.55 | 13.55 |
| 12 | 10.92 | 14.92 | 10.62 | 14.62 | 10.55 | 16.55 |
| 18 | 16.92 | 20.92 | 16.62 | 20.62 | 16.55 | 22.55 |
| 24 | 22.92 | 26.92 | 22.62 | 26.62 | 22.55 | 28.55 |
| 30 | 28.92 | 32.92 | 28.62 | 32.62 | 28.55 | 34.55 |
| 36 | 34.92 | 38.92 | 34.62 | 38.62 | 34.55 | 40.55 |

**A H 7 - 6 - 24 - L09 - 360**

**Material Style**
**H** = H-Beam

**Series/Side Rail Depth**
**76** = 6"
**47** = 7"
**18** = 8"

**Width**
**06** = 6"*
**09** = 9"
**12** = 12"
**18** = 18"
**24** = 24"
**30** = 30"
**36** = 36"

**Bottom Type**
**L06** = 6" Rung Spacing
**L09** = 9" Rung Spacing
**L12** = 12" Rung Spacing
**V** = Ventilated
**S** = Solid Trough

**Length**
**360** = 30 ft.

** 6" width not available in the AH18 series.*

### Support Span

| SERIES | | FEET 18 | 20 | 22 | 24 | 26 | 28 | 30 |
|---|---|---|---|---|---|---|---|---|
| AH7-6 | Load (lb./ft.) | 228 | 185 | 153 | 128 | 109 | 94 | 82 |
| | Deflection (in.) | 2.457 | 3.033 | 3.670 | 4.367 | 5.125 | 5.944 | 6.824 |
| | Deflection Factor | .011 | .016 | .024 | .034 | .047 | .063 | .083 |
| AH4-7 | Load (lb./ft.) | 292 | 236 | 195 | 164 | 140 | 121 | 105 |
| | Deflection (in.) | 1.869 | 2.308 | 2.793 | 3.324 | 3.901 | 4.524 | 5.193 |
| | Deflection Factor | .006 | .010 | .014 | .020 | .028 | .038 | .049 |
| AH1-8 | Load (lb./ft.) | 522 | 423 | 350 | 294 | 250 | 216 | 188 |
| | Deflection (in.) | 2.113 | 2.609 | 3.157 | 3.757 | 4.409 | 5.114 | 5.871 |
| | Deflection Factor | .004 | .006 | .009 | .013 | .018 | .024 | .031 |

### Specifications

- NEMA — All: Exceed 20C
- UL Cross Sectional Area — All: 2.00 in.$^2$
- Side Rail Design Factors, 1 Pair — AH7-6: Ix: 21.96 in.$^4$; Sx: 6.38 in.$^3$; Area: 3.82 in.$^2$; AH4-7: Ix: 36.85 in.$^4$; Sx: 9.08 in.$^3$; Area: 4.65 in.$^2$; AH1-8: Ix: 58.36 in.$^4$; Sx: 13.37 in.$^3$; Area: 5.86 in.$^2$
- Deflection — Based on 36"-wide cable trays with trays supported as simple spans and deflection measured at the midpoint; continuous spans may reduce deflection by as much as 50%
- Deflection at Any Length — For lighter loads, multiply Load x Deflection Factor



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## Options

# Peaked Cover Components — Horizontal Bends/Vertical Inside Bends



*Horizontal Bend*

**A UW - 12 - PFC - HB - 90 - 24**

| Material | Fitting Style | Width | Cover Type | Fitting Type | Degree | Nominal Radius |
|---|---|---|---|---|---|---|
| **A** = Aluminum | **U** = U-Beam<br>**H** = H-Beam | **06** = 6"<br>**09** = 9"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **PFC** = Peaked Flanged Cover<br>**PVC** = Peaked Vented Flanged Cover | **HB** = Horizontal Bend<br>**VI** = Vertical Inside Bend | **30**<br>**45**<br>**60**<br>**90** | **12** = 12"<br>**24** = 24"<br>**36** = 36"<br>**48** = 48" |

**SHW - 24 - PFC - HB - 90 - 24**

| Material* | Width | Cover Type | Fitting Type | Degree | Nominal Radius |
|---|---|---|---|---|---|
| **SHW** = Hot-Dip Galvanized<br>**SSW** = Stainless Steel 316 | **06** = 6"<br>**09** = 9"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **PFC** = Peaked Flanged Cover<br>**PVC** = Peaked Vented Flanged Cover | **HB** = Horizontal Bend<br>**VI** = Vertical Inside Bend | **30**<br>**45**<br>**60**<br>**90** | **12** = 12"<br>**24** = 24"<br>**36** = 36"<br>**48** = 48" |

** Pre-Galvanized not available.*

## Options

# Peaked Cover Components — Vertical Outside Bends



**A UW - 4 - 12 - PFC - VO - 90 - 24**

| Material | Style | Side Rail Height | Width | Cover Type | Fitting Type | Degree | Nominal Radius |
|---|---|---|---|---|---|---|---|
| **A** = Aluminum | **U** = U-Beam<br>**H** = H-Beam | **4** = 4"<br>**5** = 5"<br>**6** = 6"<br>**7** = 7" | **06** = 6"<br>**09** = 9"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **PFC** = Peaked Flanged Cover<br>**PVC** = Peaked Vented Flanged Cover | **VO** = Vertical Outside Bend | **30**<br>**45**<br>**60**<br>**90** | **12** = 12"<br>**24** = 24"<br>**36** = 36"<br>**48** = 48" |

**SSW - 6 - 24 - PFC - VO - 90 - 24**

| Material* | Side Rail Height | Width | Cover Type | Fitting Type | Degree | Nominal Radius |
|---|---|---|---|---|---|---|
| **SHW** = Hot-Dipped Galvanized<br>**SSW** = Stainless Steel 316 | **4** = 4"<br>**5** = 5"<br>**6** = 6"<br>**7** = 7" | **06** = 6"<br>**09** = 9"<br>**12** = 12"<br>**18** = 18"<br>**24** = 24"<br>**30** = 30"<br>**36** = 36" | **PFC** = Peaked Flanged Cover<br>**PVC** = Peaked Vented Flanged Cover | **VO** = Vertical Outside Bend | **30**<br>**45**<br>**60**<br>**90** | **12** = 12"<br>**24** = 24"<br>**36** = 36"<br>**48** = 48" |

** Pre-Galvanized not available.*



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## Options

# Peaked Cover Components — Horizontal Tees



**A UW - 12 - PFC - HT - 24**

**Material**
**A** = Aluminum

**Style**
**U** = U-Beam
**H** = H-Beam

**Width**
**06** = 6"
**09** = 9"
**12** = 12"
**18** = 18"
**24** = 24"
**30** = 30"
**36** = 36"

**Cover Type**
**PFC** = Peaked Flanged Cover
**PVC** = Peaked Vented Flanged Cover

**Fitting Type**
**HT** = Horizontal Tee

**Nominal Radius**
**12** = 12"
**24** = 24"
**36** = 36"
**48** = 48"

**SHW - 24 - PFC - HT - 24**

**Material***
**SHW** = Hot-Dipped Galvanized
**SSW** = Stainless Steel 316

**Width**
**06** = 6"
**09** = 9"
**12** = 12"
**18** = 18"
**24** = 24"
**30** = 30"
**36** = 36"

**Cover Type**
**PFC** = Peaked Flanged Cover
**PVC** = Peaked Vented Flanged Cover

**Fitting Type**
**HT** = Horizontal Tee

**Nominal Radius**
**12** = 12"
**24** = 24"
**36** = 36"
**48** = 48"

** Pre-Galvanized not available.*

## Non-Metallic Tray

# Why Specify T&B® Non-Metallic Cable Tray?

Non-Metallic Cable Tray Systems have been tested and proven in the harsh environment of the offshore oil and gas industry. Subject to the corrosive conditions inherent in petroleum products, plus the daily punishment of exposure to wind, weather and saltwater — Non-Metallic Cable Tray has stood up!

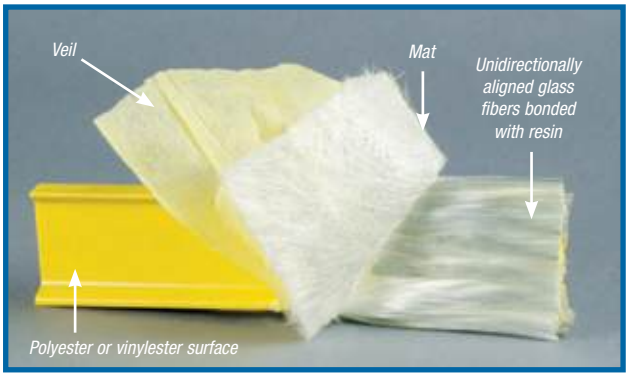
Non-Metallic Cable Tray gives you the load capacity of steel plus the inherent characteristics afforded by our Pultrusion Technology: non-conductive, non-magnetic and corrosion-resistant. Although light in weight, their strength-to-weight ratio surpasses that of equivalent steel products. Non-Metallic Cable Tray will not rust, nor does it ever require painting. Available in both polyester and vinylester resin systems, they are manufactured to meet ASTM E-84, Class 1 Flame Rating and self-extinguishing requirements of ASTM D-635.

The CSA/NEMA loadings are load-tested in accordance with NEMA/CSA guidelines.



Non-Metallic Cable Tray comes in two colors : Slate grey (polyester resin) and Beige (vinylester resin). Custom colors are available on request.






A surface veil is applied during the pultrusion process to ensure a resin-rich surface for superior corrosion resistance as well as an ultraviolet exposure barrier.



*Horizontal and vertical drops, exterior installation.*



*Horizontal (suspended) tray, with vertical drop to machinery below*



*Horizontal bends change direction of tray suspended from deck above*



Thomas&Betts

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## Non-Metallic Tray

# Straight Section Catalog Numbering System

### To Order

To order a straight section of cable tray, select the appropriate size and material from the charts below and place those symbols in the sequence shown to form the complete catalogue number.



### Selection Process

**1** Non-metallic cable tray system

**2** Select the correct Thomas & Betts series cable tray using the Load Data for straight sections found on **pages B-388–B-392**.

**3** Select the resin required. Refer to Corrosion Guide on **pages B-440–B-441** of the Technical Data section for the effect of enviromental conditions on the desired material. For the effective temperature range, see **page B-444** of the same section.

**4** Select the rung spacing required to properly support cables in tray.

**5** Select the desired width in inches.

**6** Select the straight section length in inches.

### Straight Section Catalog Selector

**NM - 4 P 09 24 - 120**

**Cable Tray System**
Non-Metallic

**Series**
3
4
6B
6C
H6C

**Material**
**P** = Polyester Resin
**V** = Vinylester Resin

**Rung Spacing**
6"
9"
12"
18"

**Width**
6"
9"
12"
18"
24"
30"
36"

**Length**
**120"** = 10'
**240"** = 20'

*Example: NM-4P0924-120 for 4' side rail, polyester resin, 9" rung spacing, 24" wide, 120" (10 ft) length.*
*Note: One pair of stainless steel SS6 splice plates with SS6 hardware included with each length.*
*For other types of splice plates, see **page B-415–B-417**.*

## Non-Metallic Tray

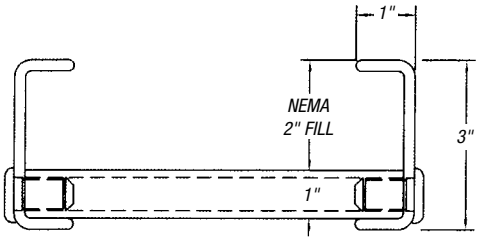
# 3" Straight Section



### Straight Section Catalog Selector

**NM - 3 P 09 24 - 120**

| Cable Tray System | Series | Material | Rung Spacing | Width | Length |
|---|---|---|---|---|---|
| Non-Metallic | 3 | **P** = Polyester Resin<br>**V** = Vinylester Resin | 6"<br>9"<br>12"<br>18" | 6"<br>9"<br>12"<br>18"<br>24"<br>30"<br>36" | **120"** = 10'<br>**240"** = 20' |




*Side Rail Height : 3' (2" loading depth)*

### Specifications

| SERIES | SAFETY FACTOR | | SUPPORT SPAN (FT.) 6 | 8 | 10 | 12 | 14 |
|---|---|---|---|---|---|---|---|
| 3 | 1.5 | Design Load lb./ft. | 257 | 145 | 93 | 64 | 47 |
| | | Deflection in. | 1.3 | 2.3 | 3.7 | 5.3 | 7.2 |
| | | K Factor | .005 | .016 | .040 | .083 | .153 |

### Splice Plates

One pair of stainless steel SS6 splice plates with SS6 (316 Stainless Steel) hardware included.

### Loading

- CSA load class: C1/3M
- NEMA 8C
- 12" rung spacing

### Deflection Factor

To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor.

When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.



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## Non-Metallic Tray

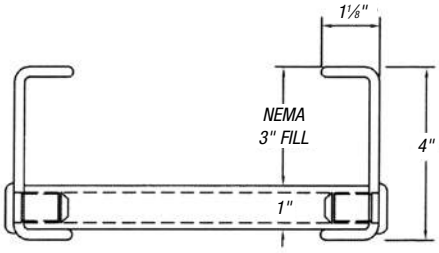
# 4" Straight Section



### Straight Section Catalog Selector

**NM - 4 P 09 24 - 120**

| Cable Tray System | Series | Material | Rung Spacing | Width | Length |
|---|---|---|---|---|---|
| Non-Metallic | 4 | **P** = Polyester Resin<br>**V** = Vinylester Resin | 6"<br>9"<br>12"<br>18" | 6"<br>9"<br>12"<br>18"<br>24"<br>30"<br>36" | **120"** = 10'<br>**240"** = 20' |




*Side Rail Height : 4" (3" loading depth)*

### Specifications

| SERIES | SAFETY FACTOR | | SUPPORT SPAN (FT.) 10 | 12 | 14 | 16 | 18 |
|---|---|---|---|---|---|---|---|
| 4 | 1.5 | Design Load lb./ft. | 157 | 109 | 80 | 61 | 48 |
| | | Deflection in. | 2.1 | 3.0 | 4.0 | 5.3 | 6.7 |
| | | K Factor | .013 | .028 | .050 | .087 | .140 |

### Splice Plates

One pair of stainless steel SS6 splice plates with SS6 (316 Stainless Steel) hardware included.

### Loading

- CSA load class: C1/3M
- NEMA 120
- 12" rung spacing

### Deflection Factor

To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor.

When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

## Non-Metallic Tray

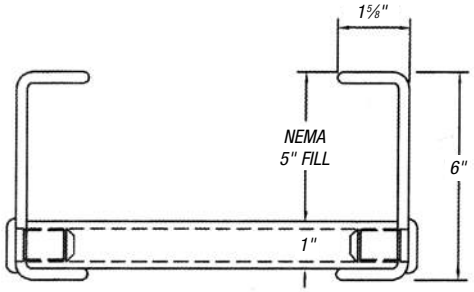
# 6" Straight Section — 6B Series



### Straight Section Catalog Selector

**NM - 6B P 09 24 - 120**

| Cable Tray System | Series | Material | Rung Spacing | Width | Length |
|---|---|---|---|---|---|
| Non-Metallic | 6B | **P** = Polyester Resin<br>**V** = Vinylester Resin | 6"<br>9"<br>12"<br>18" | 6"<br>9"<br>12"<br>18"<br>24"<br>30"<br>36" | **120"** = 10'<br>**240"** = 20' |




*Side Rail Height : 6" (5" loading depth)*

### Specifications

| SERIES | SAFETY FACTOR | | SUPPORT SPAN (FT.) 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|
| 6B | 1.5 | Design Load lb./ft. | 254 | 186 | 143 | 113 | 91 |
| | | Deflection in. | 1.6 | 2.2 | 2.8 | 3.6 | 4.4 |
| | | K Factor | .006 | .012 | .020 | .032 | .048 |

### Splice Plates

One pair of stainless steel SS6 splice plates with SS6 (316 Stainless Steel) hardware included.

### Loading

- CSA load class: E/3M
- NEMA 20B
- 12" rung spacing

### Deflection Factor

To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor.

When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.



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## Non-Metallic Tray

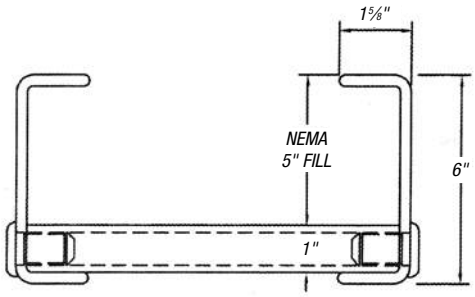
# 6" Straight Section — 6C Series



### Straight Section Catalog Selector

**NM - 6C P 09 24 - 120**

| Cable Tray System | Series | Material | Rung Spacing | Width | Length |
|---|---|---|---|---|---|
| Non-Metallic | 6C | **P** = Polyester Resin<br>**V** = Vinylester Resin | 6"<br>9"<br>12"<br>18" | 6"<br>9"<br>12"<br>18"<br>24"<br>30"<br>36" | **120"** = 10'<br>**240"** = 20' |




*Side Rail Height : 6" (5" loading depth)*

### Specfications

| SERIES | SAFETY FACTOR | | SUPPORT SPAN (FT.) 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|
| 6C | 1.5 | Design Load lb./ft. | 356 | 262 | 200 | 158 | 128 |
| | | Deflection in. | 1.6 | 2.2 | 2.9 | 3.7 | 4.6 |
| | | K Factor | .004 | .008 | .015 | .023 | .136 |

### Splice Plates

One pair of stainless steel SS6 splice plates with SS6 (316 Stainless Steel) hardware included.

### Loading

- CSA load class: E/3M, D/6M
- NEMA 20C
- 12" rung spacing

### Deflection Factor

To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor.

When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

## Non-Metallic Tray

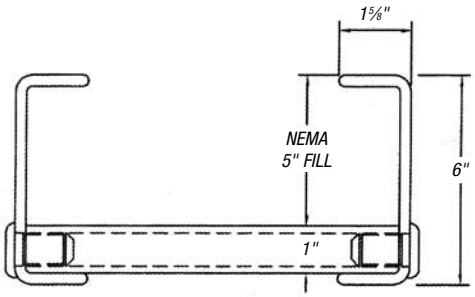
# 6" Straight Section — H6C Series



### Straight Section Catalog Selector

**NM - H6C P 09 24 - 120**

| Cable Tray System | Series | Material | Rung Spacing | Width | Length |
|---|---|---|---|---|---|
| Non-Metallic | H6C | **P** = Polyester Resin<br>**V** = Vinylester Resin | 6"<br>9"<br>12"<br>18" | 6"<br>9"<br>12"<br>18"<br>24"<br>30"<br>36" | **120"** = 10'<br>**240"** = 20' |




*Side Rail Height : 6" (5" loading depth)*

### Specifications

| SERIES | SAFETY FACTOR | | SUPPORT SPAN (FT.) 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|
| H6C | | Design Load lb./ft. | 386 | 283 | 217 | 171 | 139 |
| | 1.5 | Deflection in. | 1.8 | 2.4 | 3.2 | 4.0 | 5.0 |
| | | K Factor | .005 | .008 | .015 | .023 | .036 |
| | | Design Load lb./ft. | 289 | 212 | 163 | 129 | 104 |
| | 2.0 | Deflection in. | 1.3 | 1.8 | 2.4 | 3.0 | 3.7 |
| | | K Factor | .004 | .008 | .015 | .023 | .036 |

### Splice Plates

One pair of stainless steel SS6 splice plates with SS6 (316 Stainless Steel) hardware included.

### Loading

- CSA load class: *D/6M (* with safety factor of 1.5 only), E/3M
- NEMA 20C
- 12" rung spacing

### Deflection Factor

To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor.

When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.



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## Non-Metallic Tray

# Fittings Catalog Numbering System



### To Order

To order a fitting for a complete cable tray system, select the appropriate size, material, angle, type and radius from the charts below. Place those symbols in the sequence shown to form the complete catalogue number.

### Selection Process

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| Non-metallic cable tray system | For mitered fittings when available | Select height of fitting required for application. This should match tray series and height selection. | Select the resin required. Refer to Corrosion Guide on **pages B-440–B-441** of the Technical Data section for the effect of enviromental conditions on the desired material, for the effective temperature range, see **page B-444** of the same section. | Select the desired width in inches. | Angle of fitting required for application | Type of fitting required for application. See choices below. | Radius required for application. This would be determined by allowable radius of cables being installed. Standard radius is 24". |

### Fitting Section Catalog Selector

| NM | - | M | 4 | P | 24 | 90 | HB | 24 |
|---|---|---|---|---|---|---|---|---|
| **Cable Tray System**<br>Non-Metallic | | **Mitered**<br>When available | **Series**<br>3<br>4 | **Material**<br>**P** = Polyester Resin<br>**V** = Vinylester Resin | **Width**<br>6"<br>9"<br>12"<br>18"<br>24"<br>30"<br>36" | **Angle**<br>30°<br>45°<br>60°<br>90° | **Type**<br>**HB** = Horizontal Bend<br>**HT** = Horizontal Tee<br>**HX** = Horizontal Cross<br>**VI** = Vertical Inside Bend<br>**VO** = Vertical Outside Bend<br>**VT** = Vertical Tee<br>**VTD** = Vertical Tee, Down<br>**VTU** = Vertical Tee, Up<br>**RR** = Right Reducer<br>**LR** = Left Reducer<br>**SR** = Straight Reducer<br>**HYR** = Horizontal Wye, Right<br>**HYL** = Horizontal Wye, Left<br>**CSF** = Cable Support Fitting | **Radius**<br>12"<br>24"<br>36" |
|---|---|---|---|---|---|---|---|---|

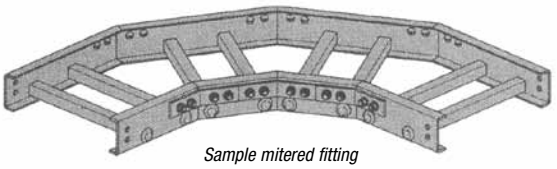
*Example: NM-4P2490HB24 for 24" wide, 4' side rail, polyester resin, horizontal 90° bend with 24" radius.*
***Note**: Standard rung spacing for fittings is 9". Stainless steel SS6 splice plates with SS6 hardware included. For other types of splice plates, see **page B-415–B-417**.*

## Non-Metallic Tray

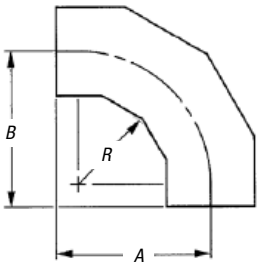
# 3" Horizontal Bends

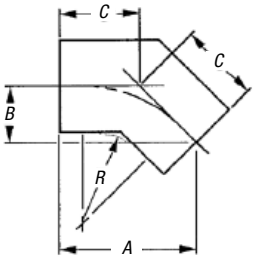
### Catalog Numbering System

| NF | - | M | 3 | P | 24 | 90 | HB | 12 |
|---|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width | Angle | Type | Radius |



*Sample mitered fitting*




### 90° Horizontal Bend

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | DIMENSIONS A IN. | DIMENSIONS B IN. |
|---|---|---|---|---|
| 12 | 6 | NM-M3-(MATL)-06-90HB12 | 20⅜ | 20⅜ |
| | 9 | NM-M3-(MATL)-09-90HB12 | 21⅞ | 21⅞ |
| | 12 | NM-M3-(MATL)-12-90HB12 | 22¾ | 22¾ |
| | 18 | NM-M3-(MATL)-18-90HB12 | 26 5/16 | 26 5/16 |
| | 24 | NM-M3-(MATL)-24-90HB12 | 29⅜ | 29⅜ |

### 45° Horizontal Bend

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | DIMENSIONS A IN. | DIMENSIONS B IN. | DIMENSIONS C IN. |
|---|---|---|---|---|---|
| 12 | 6 | NM-M3-(MATL)-06-45HB12 | 22 13/16 | 9 7/16 | 13⅜ |
| | 9 | NM-M3-(MATL)-09-45HB12 | 23⅞ | 9⅞ | 14 |
| | 12 | NM-M3-(MATL)-12-45HB12 | 24⅞ | 10 5/16 | 14⅝ |
| | 18 | NM-M3-(MATL)-18-45HB12 | 27 | 11 3/16 | 15⅞ |
| | 24 | NM-M3-(MATL)-24-45HB12 | 29⅛ | 12 1/16 | 17 1/16 |

*One pair of stainless steel SS6 splice plates with SS6 hardware included.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*



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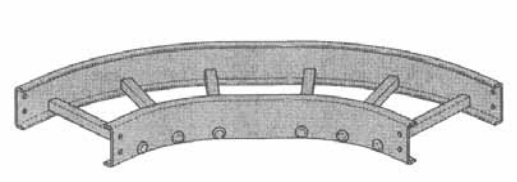
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## Non-Metallic Tray

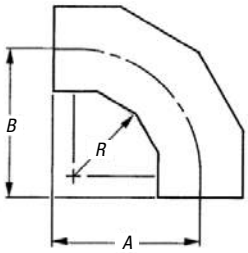
# 4" Horizontal Bends

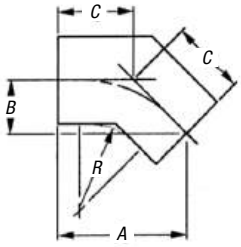
### Catalog Numbering System

| NF | - | M | 4 | P | 24 | 90 | HB | 12 |
|---|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width | Angle | Type | Radius |



*Sample molded fitting*




### 90° Horizontal Bend

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | DIMENSIONS A IN. | DIMENSIONS B IN. |
|---|---|---|---|---|
| 12 | 6 | NM-M4-(MATL)-06-90HB12 | 22¼ | 22¼ |
| | 9 | NM-M4-(MATL)-09-90HB12 | 23¾ | 23¾ |
| | 12 | †NM-M4-(MATL)-12-90HB12 | 25¼ | 25¼ |
| | 18 | †NM-M4-(MATL)-18-90HB12 | 28¼ | 28¼ |
| | 24 | †NM-M4-(MATL)-24-90HB12 | 31¼ | 31¼ |
| | 30 | †NM-M4-(MATL)-30-90HB12 | 34¼ | 34¼ |
| | 36 | †NM-M4-(MATL)-36-90HB12 | 37¼ | 37¼ |
| 24 | 6 | †NM-M4-(MATL)-06-90HB24 | 34¼ | 34¼ |
| | 9 | NM-M4-(MATL)-09-90HB24 | 35¾ | 34¾ |
| | 12 | †NM-M4-(MATL)-12-90HB24 | 37¼ | 37¼ |
| | 18 | †NM-M4-(MATL)-18-90HB24 | 40¼ | 40¼ |
| | 24 | †NM-M4-(MATL)-24-90HB24 | 43¼ | 43¼ |
| | 30 | NM-M4-(MATL)-30-90HB24 | 46¼ | 46¼ |
| | 36 | NM-M4-(MATL)-36-90HB24 | 49¼ | 49¼ |
| 36 | 6 | NM-M4-(MATL)-06-90HB36 | 44⅝ | 44⅝ |
| | 9 | NM-M4-(MATL)-09-90HB36 | 46⅛ | 46⅛ |
| | 12 | NM-M4-(MATL)-12-90HB36 | 47⅝ | 47⅝ |
| | 18 | NM-M4-(MATL)-18-90HB36 | 50⅝ | 50⅝ |
| | 24 | NM-M4-(MATL)-24-90HB36 | 53⅝ | 53⅝ |
| | 30 | NM-M4-(MATL)-30-90HB36 | 56⅝ | 56⅝ |
| | 36 | NM-M4-(MATL)-36-90HB36 | 59⅝ | 59⅝ |

### 45° Horizontal Bend

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | DIMENSIONS A IN. | DIMENSIONS B IN. | DIMENSIONS C IN. |
|---|---|---|---|---|---|
| 12 | 6 | NM-M4-(MATL)-06-45HB12 | 15¾ | 6½ | 9³⁄₁₆ |
| | 9 | NM-M4-(MATL)-09-45HB12 | 16¹³⁄₁₆ | 10½ | 9¹³⁄₁₆ |
| | 12 | †NM-M4-(MATL)-12-45HB12 | 17⅞ | 7⅜ | 10⁷⁄₁₆ |
| | 18 | †NM-M4-(MATL)-18-45HB12 | 20 | 8¼ | 11¹¹⁄₁₆ |
| | 24 | †NM-M4-(MATL)-24-45HB12 | 22¹⁄₁₆ | 9⅛ | 12¹⁵⁄₁₆ |
| | 30 | †NM-M4-(MATL)-30-45HB12 | 24³⁄₁₆ | 10 | 14³⁄₁₆ |
| | 36 | †NM-M4-(MATL)-36-45HB12 | 26⁵⁄₁₆ | 10¹⁵⁄₁₆ | 15⁷⁄₁₆ |
| 24 | 6 | †NM-M4-(MATL)-06-45HB24 | 24³⁄₁₆ | 10 | 14³⁄₁₆ |
| | 9 | NM-M4-(MATL)-09-45HB24 | 25¼ | 10½ | 14¹³⁄₁₆ |
| | 12 | †NM-M4-(MATL)-12-45HB24 | 26⁵⁄₁₆ | 10¹⁵⁄₁₆ | 15⁷⁄₁₆ |
| | 18 | †NM-M4-(MATL)-18-45HB24 | 28⁷⁄₁₆ | 11¹³⁄₁₆ | 16¹¹⁄₁₆ |
| | 24 | †NM-M4-(MATL)-24-45HB24 | 30⁹⁄₁₆ | 12¹¹⁄₁₆ | 17¹⁵⁄₁₆ |
| | 30 | NM-M4-(MATL)-30-45HB24 | 32¹¹⁄₁₆ | 13⁹⁄₁₆ | 19⅛ |
| | 36 | NM-M4-(MATL)-36-45HB24 | 34¹³⁄₁₆ | 14⁷⁄₁₆ | 20⅜ |
| 36 | 6 | NM-M4-(MATL)-06-45HB36 | 39⅞ | 161/2 | 23⅜ |
| | 9 | NM-M4-(MATL)-09-45HB36 | 40¹⁵⁄₁₆ | 16¹⁵⁄₁₆ | 23¹⁵⁄₁₆ |
| | 12 | NM-M4-(MATL)-12-45HB36 | 42 | 17⅜ | 24⅝16 |
| | 18 | NM-M4-(MATL)-18-45HB36 | 44⅛ | 18³⁄₁₆ | 25¹³⁄₁₆ |
| | 24 | NM-M4-(MATL)-24-45HB36 | 46³⁄₁₆ | 19⅛ | 27¹⁄₁₆ |
| | 30 | NM-M4-(MATL)-30-45HB36 | 48⁵⁄₁₆ | 20 | 28⅝16 |
| | 36 | NM-M4-(MATL)-36-45HB36 | 50⁷⁄₁₆ | 20⅞ | 29⁹⁄₁₆ |

*One pair of stainless steel SS6 splice plates with SS6 hardware included.*

*† Denotes molded fitting available.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*

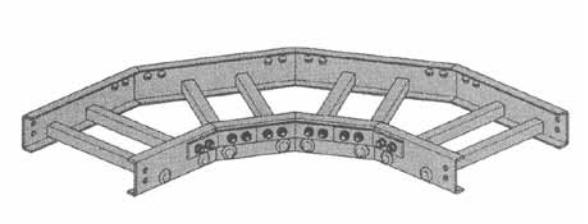
## Non-Metallic Tray

# 6" Horizontal Bends

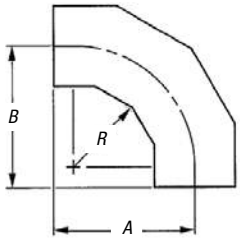
### Catalog Numbering System

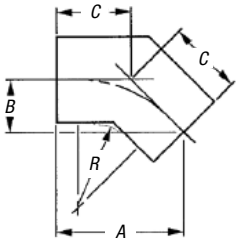
| NM | - | M | 6 | P | 24 | 90 | HB | 12 |
|---|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width | Angle | Type | Radius |

† *For molded fitting, if available, please remove "M" in the catalogue number. Ex: NM-6P2490HB12*



*Sample mitered fitting*




### 90° Horizontal Bend

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | DIMENSIONS A (IN.) | B (IN.) |
|---|---|---|---|---|
| 12 | 6 | NM-M6-(MATL)-06-90HB12 | 20⅜ | 20⅜ |
| | 9 | NM-M6-(MATL)-09-90HB12 | 21⅛ | 21⅛ |
| | 12 | NM-M6-(MATL)-12-90H812 | 22¾ | 22¾ |
| | 18 | NM-M6-(MATL)-18-90HB12 | 26⁵⁄₁₆ | 26⁵⁄₁₆ |
| | 24 | NM-M6-(MATL)-24-90HB12 | 29⅜ | 29⅜ |
| | 30 | NM-M6-(MATL)-30-90HB12 | 32⅜ | 32⅜ |
| | 36 | NM-M6-(MATL)-36-90HB12 | 35⅜ | 35⅜ |
| 24 | 6 | NM-M6-(MATL)-06-90HB24 | 34¼ | 34¼ |
| | 9 | NM-M6-(MATL)-09-90HB24 | 35¼ | 35¾ |
| | 12 | †NM-M6-(MATL)-12-90HB24 | 37¼ | 37¼ |
| | 18 | †NM-M6-(MATL)-18-90HB24 | 40¼ | 40¼ |
| | 24 | †NM-M6-(MATL)-24-90HB24 | 43¼ | 43¼ |
| | 30 | NM-M6-(MATL)-30-90HB24 | 46¼ | 46¼ |
| | 36 | †NM-M6-(MATL)-36-90HB24 | 49¼ | 49¼ |
| 36 | 6 | NM-M6-(MATL)-06-90HB36 | 46¼ | 46¼ |
| | 9 | NM-M6-(MATL)-09-90HB36 | 47¾ | 47¾ |
| | 12 | NM-M6-(MATL)-12-90HB36 | 49¼ | 49¼ |
| | 18 | NM-M6-(MATL)-18-90HB36 | 52¼ | 52¼ |
| | 24 | NM-M6-(MATL)-24-90HB36 | 55¼ | 55¼ |
| | 30 | NM-M6-(MATL)-30-90HB36 | 58¼ | 58¼ |
| | 36 | NM-M6-(MATL)-36-90HB36 | 61¼ | 61¼ |

### 45° Horizontal Bend

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | DIMENSIONS A (IN.) | B (IN.) | C (IN.) |
|---|---|---|---|---|---|
| 12 | 6 | NM-M6-(MATL)-06-45HB12 | 22¹³⁄₁₆ | 9⁷⁄₁₆ | 13⅜ |
| | 9 | NM-M6-(MATL)-09 45HB12 | 23⅞ | 9⅞ | 14 |
| | 12 | NM-M6-(MATL)-12-45HB12 | 24⅞ | 10⁹⁄₁₆ | 14⅝ |
| | 18 | NM-M6-(MATL)-18-45HB12 | 27 | 11¾₁₆ | 15⅞ |
| | 24 | NM-M6-(MATL)-24-45HB12 | 29⅛ | 12¹⁄₁₆ | 17¹⁄₁₆ |
| | 30 | NM-M6-(MATL)-30-45HB12 | 31¼ | 12¹⁵⁄₁₆ | 18⁵⁄₁₆ |
| | 36 | NM-M6-(MATL)-36-45HB12 | 33⅜ | 13¹³⁄₁₆ | 19⁹⁄₁₆ |
| 24 | 6 | NM-M6-(MATL)-06-45HB24 | 24³⁄₁₆ | 10 | 14³⁄₁₆ |
| | 9 | NM-M6-(MATL)-09-45HB24 | 25¼ | 10½ | 14¹³⁄₁₆ |
| | 12 | †NM-M6-(MATL)-12-45HB24 | 26⁵⁄₁₆ | 10¹⁵⁄₁₆ | 15⁷⁄₁₆ |
| | 18 | †NM-M6-(MATL)-18-45HB24 | 28⁷⁄₁₆ | 11¹³⁄₁₆ | 16¹¹⁄₁₆ |
| | 24 | †NM-M6-(MATL)-24-45HB24 | 30⁹⁄₁₆ | 12¹¹⁄₁₆ | 17¹⁵⁄₁₆ |
| | 30 | NM-M6-(MATL)-30-45HB24 | 32¹¹⁄₁₆ | 13⁹⁄₁₆ | 19⅛ |
| | 36 | †NM-M6-(MATL)-36-45HB24 | 34¹³⁄₁₆ | 14⁷⁄₁₆ | 20⅜ |
| 36 | 6 | NM-M6-(MATL)-06-45HB36 | 32¹¹⁄₁₆ | 13⁹⁄₁₆ | 19⅛ |
| | 9 | NM-M6-(MATL)-09-45HB36 | 33¾ | 14 | 19¾ |
| | 2 | NM-M6-(MATL)-12-45HB36 | 34¹³⁄₁₆ | 14⁷⁄₁₆ | 20⅜ |
| | 18 | NM-M6-(MATL)-18-45HB36 | 36¹⁵⁄₁₆ | 15⁵⁄₁₆ | 21⅝ |
| | 24 | NM-M6-(MATL)-24-45HB36 | 39¹⁄₁₆ | 16³⁄₁₆ | 22⅞ |
| | 30 | NM-M6-(MATL)-30-45HB36 | 41³⁄₁₆ | 17¹⁄₁₆ | 24⅛ |
| | 36 | NM-M6-(MATL)-36-45HB36 | 43⁵⁄₁₆ | 17¹⁵⁄₁₆ | 25⅜ |

*One pair of stainless steel SS6 splice plates with SS6 hardware included.*
*† Denotes molded fitting available.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*



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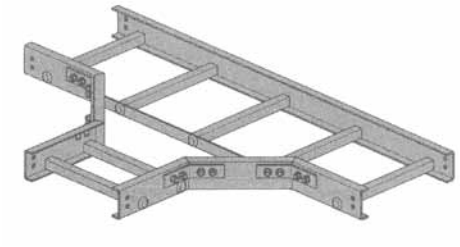
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## Non-Metallic Tray

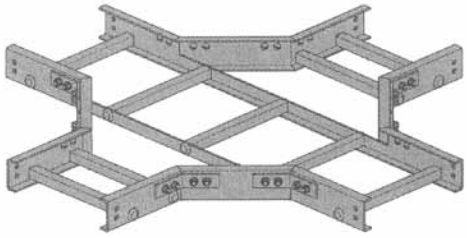
# 3" Horizontal Tee and Cross

### Catalog Numbering System

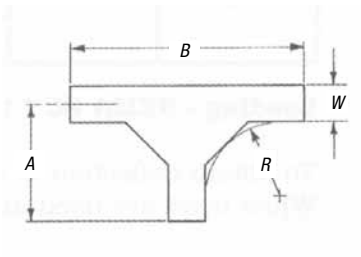
| NM | - | M | 3 | P | 24 | HT | 12 |
|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width | Type | Radius |

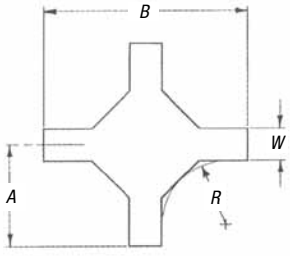


*Sample mitered fitting*



*Sample mitered fitting*




### Horizontal Tee

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | DIMENSIONS A IN. | DIMENSIONS B IN. |
|---|---|---|---|---|
| 12 | 6 | NM-M3-(MATL)-06-HT12 | 19¼ | 38 |
| | 9 | NM-M3-(MATL)-09-HT12 | 20¾ | 41½ |
| | 12 | NM-M3-(MATL)-12-HT12 | 22¼ | 44½ |
| | 18 | NM-M3-(MATL)-18-HT12 | 25¼ | 50½ |
| | 24 | NM-M3-(MATL)-24-HT12 | 28¼ | 56½ |

### Horizontal Cross

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | DIMENSIONS A IN. | DIMENSIONS B IN. |
|---|---|---|---|---|
| 12 | 6 | NM-M3-(MATL)-06-45HX12 | 19¼ | 38½ |
| | 9 | NM-M3-(MATL)-09-45HX12 | 20¾ | 41½ |
| | 12 | NM-M3-(MATL)-12-45HX12 | 22¼ | 44½ |
| | 18 | NM-M3-(MATL)-18-45HX12 | 25¼ | 50½ |
| | 24 | NM-M3-(MATL)-24-45HX12 | 28¼ | 56½ |

*Two pairs of stainless steel SS6 splice plates with SS6 hardware included.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

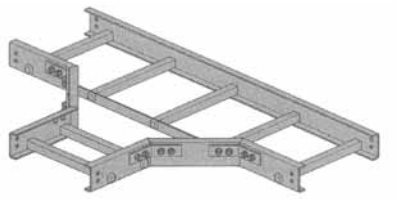
*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*

## Non-Metallic Tray

# 4" Horizontal Tee and Cross

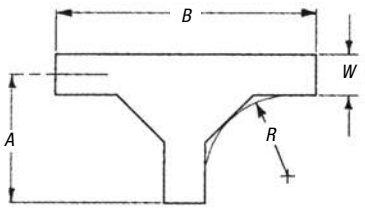
### Catalog Numbering System

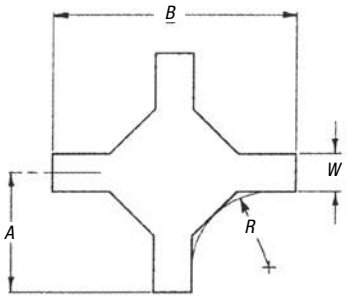
| NM | - | M | 4 | P | 24 | HT | 12 |
|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width | Type | Radius |



*Sample mitered fitting*

† *For molded fitting, if available, please remove "M" in the catalogue number. Ex: NM-4P-24HT12*




### Horizontal Tee

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | DIMENSIONS A IN. | DIMENSIONS B IN. |
|---|---|---|---|---|
| 12 | 6 | †NM-M4-(MATL)-06-HT12 | 22¼ | 44½ |
| | 9 | †NM-M4-(MATL)-09-HT12 | 23¾ | 47½ |
| | 12 | †NM-M4-(MATL)-12-HT12 | 25¼ | 50½ |
| | 18 | †NM-M4-(MATL)-18-HT12 | 28¼ | 56½ |
| | 24 | †NM-M4-(MATL)-24-HT12 | 31¼ | 62½ |
| | 30 | †NM-M4-(MATL)-30-HT12 | 34¼ | 68½ |
| | 36 | †NM-M4-(MATL)-36-HT12 | 37¼ | 74½ |
| 24 | 6 | †NM-M4-(MATL)-06-HT24 | 34¼ | 68½ |
| | 9 | †NM-M4-(MATL)-09-HT24 | 35¾ | 71½ |
| | 12 | †NM-M4-(MATL)-12-1-M4 | 37¼ | 74½ |
| | 18 | †NM-M4-(MATL)-18-HT24 | 40¼ | 80½ |
| | 24 | †NM-M4-(MATL)-24-HT24 | 43¼ | 86½ |
| | 30 | †NM-M4-(MATL)-30-HT24 | 46¼ | 92½ |
| | 36 | †NM-M4-(MATL)-36-HT24 | 49¼ | 98½ |
| 36 | 6 | NM-M4-(MATL)-06-HT36 | 43¼ | 86½ |
| | 9 | NM-M4-(MATL)-09-HT36 | 44¾ | 89½ |
| | 12 | NM-M4-(MATL)-12-HT36 | 46¼ | 92½ |
| | 18 | NM-M4-(MATL)-18-HT36 | 49¼ | 98½ |
| | 24 | NM-M4-(MATL)-24-HT36 | 52¼ | 104½ |
| | 30 | NM-M4-(MATL)-30-HT36 | 55¼ | 110½ |
| | 36 | NM-M4-(MATL)-36-HT36 | 58¼ | 116½ |

### Horizontal Cross

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | DIMENSIONS A IN. | DIMENSIONS B IN. |
|---|---|---|---|---|
| 12 | 6 | †NM-M4-(MATL)-06-HX12 | 22¼ | 44½ |
| | 9 | †NM-M4-(MATL)-09-HX12 | 23¾ | 47½ |
| | 12 | †NM-M4-(MATL)-12-HX12 | 25¼ | 50½ |
| | 18 | †NM-M4-(MATL)-18-HX12 | 28¼ | 56½ |
| | 24 | †NM-M4-(MATL)-24-HX12 | 31¼ | 62½ |
| | 30 | †NM-M4-(MATL)-30-HX12 | 34¼ | 68½ |
| | 36 | †NM-M4-(MATL)-36-HX12 | 37¼ | 74½ |
| 24 | 6 | †NM-M4-(MATL)-06-HX24 | 34¼ | 68½ |
| | 9 | †NM-M4-(MATL)-09-HX24 | 35¾ | 71½ |
| | 12 | †NM-M4-(MATL)-12-HX24 | 37¼ | 74½ |
| | 18 | †NM-M4-(MATL)-18-HX24 | 40¼ | 80½ |
| | 24 | †NM-M4-(MATL)-24-HX24 | 43¼ | 86½ |
| | 30 | †NM-M4-(MATL)-30-HX24 | 46¼ | 92½ |
| | 36 | †NM-M4-(MATL)-36-HX24 | 49¼ | 98½ |
| 36 | 6 | NM-M4-(MATL)-06-HX36 | 43¼ | 86½ |
| | 9 | NM-M4-(MATL)-09-HX36 | 44¾ | 89½ |
| | 12 | NM-M4-(MATL)-12-HX36 | 46¼ | 92½ |
| | 18 | NM-M4-(MATL)-18-HX36 | 49¼ | 98½ |
| | 24 | NM-M4-(MATL)-24-HX36 | 52¼ | 104½ |
| | 30 | NM-M4-(MATL)-30-HX36 | 55¼ | 110½ |
| | 36 | NM-M4-(MATL)-36-HX36 | 58¼ | 116½ |

*Two pairs of stainless steel SS6 splice plates with SS6 hardware included.*

*† Denotes molded fitting available.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*



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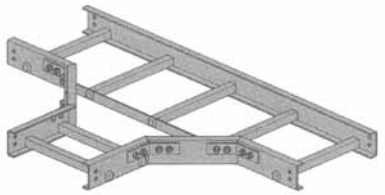
## Non-Metallic Tray

# 6" Horizontal Tee and Cross

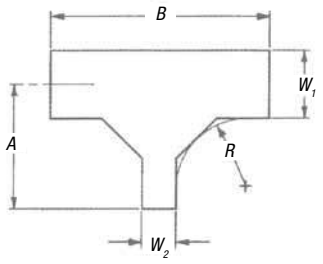
### Catalog Numbering System

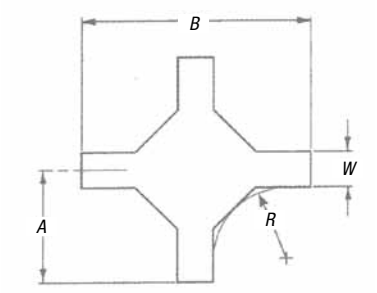
| NM | - | M | 6 | P | 24 | HT | 12 |
|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width | Type | Radius |

† *For molded fitting, if available, please remove "M" in the catalogue number. Ex: NM-6P24HT12*



*Sample mitered fitting*




### Horizontal Tee

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | DIMENSIONS A IN. | DIMENSIONS B IN. |
|---|---|---|---|---|
| 12 | 6 | NM-M6-(MATL)-06-HT12 | 19¼ | 38 |
| | 9 | NM-M6-(MATL)-09-HT12 | 20¾ | 41 |
| | 12 | NM-M6-(MATL)-12-HT12 | 22¼ | 44 |
| | 18 | NM-M6-(MATL)-18-HT12 | 25¼ | 50 |
| | 24 | NM-M6-(MATL)-24-HT12 | 28¼ | 56 |
| | 30 | NM-M6-(MATL)-30-HT12 | 31¼ | 62 |
| | 36 | NM-M6-(MATL)-36-HT12 | 34¼ | 68 |
| 24 | 6 | †NM-M6-(MATL)-06-HT24 | 34¼ | 68½ |
| | 9 | †NM-M6-(MATL)-09-HT24 | 35¾ | 71½ |
| | 12 | †NM-M6-(MATL)-12-HT24 | 37¼ | 74½ |
| | 18 | †NM-M6-(MATL)-18-HT24 | 40¼ | 81½ |
| | 24 | †NM-M6-(MATL)-24-HT24 | 43¼ | 86½ |
| | 30 | †NM-M6-(MATL)-30-HT24 | 46¼ | 92½ |
| | 36 | †NM-M6-(MATL)-36-HT24 | 49¼ | 98½ |
| 36 | 6 | NM-M6-(MATL)-06-HT36 | 46¼ | 92½ |
| | 9 | NM-M6-(MATL)-09-HT36 | 47¾ | 95½ |
| | 12 | NM-M6-(MATL)-12-HT36 | 49¼ | 98½ |
| | 18 | NM-M6-(MATL)-18-HT36 | 52¼ | 104½ |
| | 24 | NM-M6-(MATL)-24-HT36 | 55¼ | 110½ |
| | 30 | NM-M6-(MATL)-30-HT36 | 58¼ | 116½ |
| | 36 | NM-M6-(MATL)-36-HT36 | 61¼ | 122½ |

### Horizontal Cross

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | DIMENSIONS A IN. | DIMENSIONS B IN. |
|---|---|---|---|---|
| 12 | 6 | NM-M6-(MATL)-06-HX12 | 19¼ | 38 |
| | 9 | NM-M6-(MATL)-09-HX12 | 20¾ | 41 |
| | 12 | NM-M6-(MATL)-12-HX12 | 22¼ | 44 |
| | 18 | NM-M6-(MATL)-18-HX12 | 25¼ | 50 |
| | 24 | NM-M6-(MATL)-24-HX12 | 28¼ | 56 |
| | 30 | NM-M6-(MATL)-30-HX12 | 31¼ | 62 |
| | 36 | NM-M6-(MATL)-36-HX12 | 34¼ | 68 |
| 24 | 6 | †NM-M6-(MATL)-06-HX24 | 34¼ | 68½ |
| | 9 | †NM-M6-(MATL)-09-HX24 | 35¾ | 71½ |
| | 12 | †NM-M6-(MATL)-12-HX24 | 37¼ | 74½ |
| | 18 | †NM-M6-(MATL)-18-HX24 | 40¼ | 80½ |
| | 24 | †NM-M6-(MATL)-24-HX24 | 43¼ | 86½ |
| | 30 | †NM-M6-(MATL)-30-HX24 | 46¼ | 92½ |
| | 36 | †NM-M6-(MATL)-36-HX24 | 49¼ | 98½ |
| 36 | 6 | NM-M6-(MATL)-06-HX36 | 46¼ | 92½ |
| | 9 | NM-M6-(MATL)-09-HX36 | 47¾ | 95½ |
| | 12 | NM-M6-(MATL)-12-HX36 | 49¼ | 98½ |
| | 18 | NM-M3-(MATL)-18-HX36 | 52¼ | 104½ |
| | 24 | NM-M3-(MATL)-24-HX36 | 55¼ | 110½ |
| | 30 | NM-M3-(MATL)-30-HX36 | 58¼ | 116½ |
| | 36 | NM-M3-(MATL)-36-HX36 | 61¼ | 122½ |

*Two pairs of stainless steel SS6 splice plates with SS6 hardware included.*

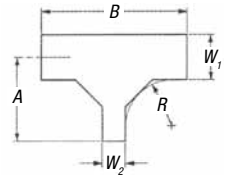
† *Denotes molded fitting available.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*

## Non-Metallic Tray

### 3" Horizontal Reducing Tee



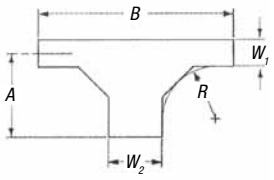



*Sample mitered fitting*

#### Catalog Numbering System

| NM | - | M | 3 | P | 24 | 12 | HT | 12 |
|---|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width 1 | Width 2 | Type | Radius |

### 3" Horizontal Expanding Tee






*Sample mitered fitting*

#### Catalog Numbering System

| NM | - | M | 3 | P | 12 | 24 | HT | 12 |
|---|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width 1 | Width 2 | Type | Radius |

#### Horizontal Reducing Tee

| TRAY WIDTH | | | 12" RADIUS | |
|---|---|---|---|---|
| W1 IN. | W2 IN. | CAT. NO. | A IN. | B IN. |
| 9 | 6 | NM-M3-(MATL)-09-06-HT12 | 20¾ | 38½ |
| 12 | 6 | NM-M3-(MATL)-12-06-HT12 | 22¼ | 38½ |
| | 9 | NM-M3-(MATL)-12-09-HT12 | 22¼ | 41½ |
| 18 | 6 | NM-M3-(MATL)-18-06-HT12 | 25¼ | 38½ |
| | 9 | NM-M3-(MATL)-18-09-HT12 | 25¼ | 41½ |
| | 12 | NM-M3-(MATL)-18-12-HT12 | 25¼ | 41½ |
| 24 | 6 | NM-M3-(MATL)-24-06-HT12 | 28¼ | 38½ |
| | 9 | NM-M3-(MATL)-24-09-HT12 | 28¼ | 41½ |
| | 12 | NM-M3-(MATL)-24-12-HT12 | 28¼ | 44½ |
| | 18 | NM-M3-(MATL)-24-18-HT12 | 28¼ | 50½ |

#### Horizontal Expanding Tee

| TRAY WIDTH | | | 12" RADIUS | |
|---|---|---|---|---|
| W1 IN. | W2 IN. | CAT. NO. | A IN. | B IN. |
| 9 | 9 | NM-M3-(MATL)-06-09-HT12 | 19¼ | 41½ |
| | 12 | NM-M3-(MATL)-12-12-HT12 | 19¼ | 44½ |
| | 18 | NM-M3-(MATL)-06-18-HT12 | 19¼ | 50½ |
| | 24 | NM-M3-(MATL)-06-24-HT12 | 19¼ | 56½ |
| 12 | 12 | NM-M3-(MATL)-09-12-HT12 | 20¾ | 44½ |
| | 18 | NM-M3-(MATL)-09-18-HT12 | 20¾ | 50½ |
| | 24 | NM-M3-(MATL)-09-24-HT12 | 20¾ | 56½ |
| | 18 | NM-M3-(MATL)-12-18-HT12 | 22¼ | 50½ |
| 18 | 24 | NM-M3-(MATL)-12-24-HT12 | 22¼ | 50½ |
| 24 | 24 | NM-M3-(MATL)-18-24-HT12 | 25¼ | 56½ |

*Two pair of stainless steel SS6 splice plates with SS6 hardware included.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*



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## Non-Metallic Tray

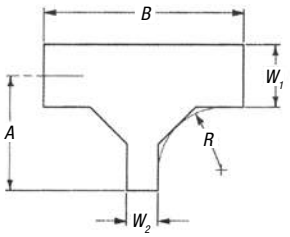
# 4" Horizontal Reducing Tee

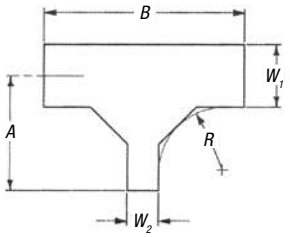
### Catalog Numbering System

| NM | - | M | 4 | P | 24 | 12 | HT | 12 |
|---|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width 1 | Width 2 | Type | Radius |



*Sample mitered fitting*




### Horizontal Reducing Tee — 12" or 24" Radius

| TRAY WIDTH | | CAT. NO. | 12" RADIUS | | 24" RADIUS | |
|---|---|---|---|---|---|---|
| W1 IN. | W2 IN. | *INSERT RADIUS (12" OR 24") | A IN. | B IN. | A IN. | B IN. |
| 9 | 6 | NM-M4-(MATL)-09-06-HT* | 23¾ | 44½ | 35¾ | 68½ |
| 12 | 6 | NM-M4-(MATL)-12-06-HT* | 25¼ | 44½ | 37¼ | 68½ |
| | 9 | NM-M4-(MATL)-12-09-HT* | 25¼ | 47½ | 37¼ | 71½ |
| 18 | 6 | NM-M4-(MATL)-18-06-HT* | 28¼ | 44½ | 40¼ | 68½ |
| | 9 | NM-M4-(MATL)-18-09-HT* | 28¼ | 47½ | 40¼ | 71½ |
| | 12 | NM-M4-(MATL)-18-12-HT* | 28¼ | 50½ | 40¼ | 74½ |
| 24 | 6 | NM-M4-(MATL)-24-06-HT* | 31¼ | 44½ | 43¼ | 68½ |
| | 9 | NM-M4-(MATL)-24-09-HT* | 31¼ | 47½ | 43¼ | 71½ |
| | 12 | NM-M4-(MATL)-24-12-HT* | 31¼ | 50½ | 43¼ | 74½ |
| | 18 | NM-M4-(MATL)-24-18-HT* | 31¼ | 56½ | 43¼ | 80½ |
| 30 | 6 | NM-M4-(MATL)-30-06-HT* | 34¼ | 44½ | 46¼ | 68½ |
| | 9 | NM-M4-(MATL)-30-09-HT* | 34¼ | 47½ | 46¼ | 71½ |
| | 12 | NM-M4-(MATL)-30-12-HT* | 34¼ | 50½ | 46¼ | 74½ |
| | 18 | NM-M4-(MATL)-30-18-HT* | 34¼ | 56½ | 46¼ | 80½ |
| | 24 | NM-M4-(MATL)-30-24-HT* | 34¼ | 62½ | 46¼ | 86½ |
| 36 | 6 | NM-M4-(MATL)-36-06-HT* | 37¼ | 44½ | 49¼ | 68½ |
| | 9 | NM-M4-(MATL)-36-09-HT* | 37¼ | 47½ | 49¼ | 71½ |
| | 12 | NM-M4-(MATL)-36-12-HT* | 37¼ | 50½ | 49¼ | 74½ |
| | 18 | NM-M4-(MATL)-36-18-HT* | 37¼ | 56½ | 49¼ | 80½ |
| | 24 | NM-M4-(MATL)-36-24-HT* | 37¼ | 62½ | 49¼ | 86½ |
| | 30 | NM-M4-(MATL)-36-30-HT* | 37¼ | 68½ | 49¼ | 92½ |

### Horizontal Reducing Tee — 36" Radius

| TRAY WIDTH | | CAT. NO. | 36" RADIUS | |
|---|---|---|---|---|
| W1 IN. | W2 IN. | *INSERT RADIUS (36") | A IN. | B IN. |
| 9 | 6 | NM-M4-(MATL)-09-06-HT36 | 44¾ | 86½ |
| 12 | 6 | NM-M4-(MATL)-12-06-HT36 | 46¼ | 86½ |
| | 9 | NM-M4-(MATL)-12-09-HT36 | 46¼ | 89½ |
| 18 | 6 | NM-M4-(MATL)-18-06-HT36 | 49¼ | 86½ |
| | 9 | NM-M4-(MATL)-18-09-HT36 | 49¼ | 89½ |
| | 12 | NM-M4-(MATL)-18-12-HT36 | 49¼ | 92½ |
| 24 | 6 | NM-M4-(MATL)-24-06-HT36 | 52¼ | 86½ |
| | 9 | NM-M4-(MATL)-24-09-HT36 | 52¼ | 89½ |
| | 12 | NM-M4-(MATL)-24-12-HT36 | 52¼ | 92½ |
| | 18 | NM-M4-(MATL)-24-18-HT36 | 52¼ | 98½ |
| 30 | 6 | NM-M4-(MATL)-30-06-HT36 | 55¼ | 86½ |
| | 9 | NM-M4-(MATL)-30-09-HT36 | 55¼ | 89½ |
| | 12 | NM-M4-(MATL)-30-12-HT36 | 55¼ | 92½ |
| | 18 | NM-M4-(MATL)-30-18-HT36 | 55¼ | 98½ |
| | 24 | NM-M4-(MATL)-30-24-HT36 | 55¼ | 104½ |
| 36 | 6 | NM-M4-(MATL)-36-06-HT36 | 58¼ | 86½ |
| | 9 | NM-M4-(MATL)-36-09-HT36 | 58¼ | 89½ |
| | 12 | NM-M4-(MATL)-36-12-HT36 | 58¼ | 92½ |
| | 18 | NM-M4-(MATL)-36-18-HT36 | 58¼ | 98½ |
| | 24 | NM-M4-(MATL)-36-24-HT36 | 58¼ | 104½ |
| | 30 | NM-M4-(MATL)-36-30-HT36 | 58¼ | 110½ |

*Two pair of stainless steel SS6 splice plates with SS6 hardware included.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*

## Non-Metallic Tray

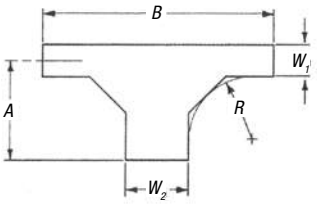
# 4" Horizontal Expanding Tee

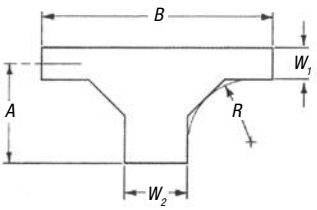
### Catalog Numbering System

| NM | - | M | 4 | P | 12 | 24 | HT | 12 |
|---|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width 1 | Width 2 | Type | Radius |



*Sample mitered fitting*




### Horizontal Expanding Tee — 12" or 24" Radius

| TRAY WIDTH | | CAT. NO. | 12" RADIUS | | 24" RADIUS | |
|---|---|---|---|---|---|---|
| W1 IN. | W2 IN. | *INSERT RADIUS (12" OR 24") | A IN. | B IN. | A IN. | B IN. |
| 6 | 9 | NM-M4-(MATL)-06-09-HT* | 22¼ | 47½ | 34¼ | 71½ |
| | 12 | NM-M4-(MATL)-06-12-HT* | 22¼ | 50½ | 34¼ | 74½ |
| | 18 | NM-M4-(MATL)-06-18-HT* | 22¼ | 56½ | 34¼ | 80½ |
| | 24 | NM-M4-(MATL)-06-24-HT* | 22¼ | 62½ | 34¼ | 86½ |
| | 30 | NM-M4-(MATL)-06-30-HT* | 22¼ | 68½ | 34¼ | 92½ |
| | 36 | NM-M4-(MATL)-06-36-HT* | 22¼ | 74½ | 34¼ | 98½ |
| 9 | 12 | NM-M4-(MATL)-09-12-HT* | 23¾ | 50½ | 35¾ | 74½ |
| | 18 | NM-M4-(MATL)-09-18-HT* | 23¾ | 56½ | 35¾ | 80½ |
| | 24 | NM-M4-(MATL)-09-24-HT* | 23¾ | 62½ | 35¾ | 86½ |
| | 30 | NM-M4-(MATL)-09-30-HT* | 23¾ | 68½ | 35¾ | 92½ |
| | 36 | NM-M4-(MATL)-09-36-HT* | 23¾ | 74½ | 35¾ | 98½ |
| 12 | 18 | NM-M4-(MATL)-12-18-HT* | 25¼ | 56½ | 37¼ | 80½ |
| | 24 | NM-M4-(MATL)-12-24-HT* | 25¼ | 62½ | 37¼ | 86½ |
| | 30 | NM-M4-(MATL)-12-30-HT* | 25¼ | 68½ | 37¼ | 92½ |
| | 36 | NM-M4-(MATL)-12-36-HT* | 25¼ | 74½ | 37¼ | 98½ |
| 18 | 24 | NM-M4-(MATL)-18-24-HT* | 28¼ | 62½ | 40¼ | 86½ |
| | 30 | NM-M4-(MATL)-18-30-HT* | 28¼ | 68½ | 40¼ | 92½ |
| | 36 | NM-M4-(MATL)-18-36-HT* | 28¼ | 74½ | 40¼ | 98½ |
| 24 | 30 | NM-M4-(MATL)-24-30-HT* | 31¼ | 68½ | 43¾ | 92½ |
| | 36 | NM-M4-(MATL)-24-36-HT* | 31¼ | 74½ | 43¾ | 98½ |
| 30 | 36 | NM-M4-(MATL)-30-36-HT* | 34¼ | 74½ | 46¼ | 98½ |

### Horizontal Expanding Tee — 36" Radius

| TRAY WIDTH | | CAT. NO. | 36" RADIUS | |
|---|---|---|---|---|
| W1 IN. | W2 IN. | *INSERT RADIUS (36") | A IN. | B IN. |
| 6 | 9 | NM-M4-(MATL)-06-09-HT36 | 43¼ | 89½ |
| | 12 | NM-M4-(MATL)-06-12-HT36 | 43¼ | 92½ |
| | 18 | NM-M4-(MATL)-06-18-HT36 | 43¼ | 98½ |
| | 24 | NM-M4-(MATL)-06-24-HT36 | 43¼ | 104½ |
| | 30 | NM-M4-(MATL)-06-30-HT36 | 43¼ | 110½ |
| | 36 | NM-M4-(MATL)-06-36-HT36 | 43¼ | 116½ |
| 9 | 12 | NM-M4-(MATL)-09-12-HT36 | 44¾ | 92½ |
| | 18 | NM-M4-(MATL)-09-18-HT36 | 44¾ | 98½ |
| | 24 | NM-M4-(MATL)-09-24-HT36 | 44¾ | 104½ |
| | 30 | NM-M4-(MATL)-09-30-HT36 | 44¾ | 110½ |
| | 36 | NM-M4-(MATL)-09-36-HT36 | 44¾ | 116½ |
| 12 | 18 | NM-M4-(MATL)-12-18-HT36 | 46¼ | 98½ |
| | 24 | NM-M4-(MATL)-12-24-HT36 | 46¼ | 104½ |
| | 30 | NM-M4-(MATL)-12-30-HT36 | 46¼ | 110½ |
| | 36 | NM-M4-(MATL)-12-36-HT36 | 46¼ | 116½ |
| 18 | 24 | NM-M4-(MATL)-18-24-HT36 | 49¼ | 104½ |
| | 30 | NM-M4-(MATL)-18-30-HT36 | 49¼ | 110½ |
| | 36 | NM-M4-(MATL)-18-36-HT36 | 49¼ | 116½ |
| 24 | 30 | NM-M4-(MATL)-24-30-HT36 | 52¼ | 110½ |
| | 36 | NM-M4-(MATL)-24-36-HT36 | 52¼ | 116½ |
| 30 | 36 | NM-M4-(MATL)-30-36-HT36 | 52¼ | 116½ |

*Two pair of stainless steel SS6 splice plates with SS6 hardware included.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*



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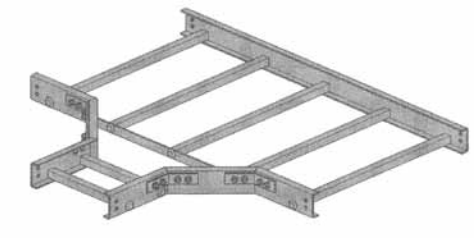
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## Non-Metallic Tray

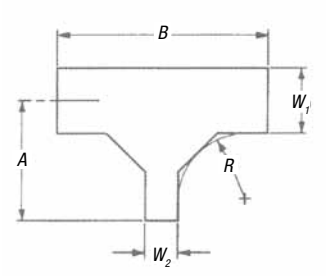
# 6" Horizontal Reducing Tee

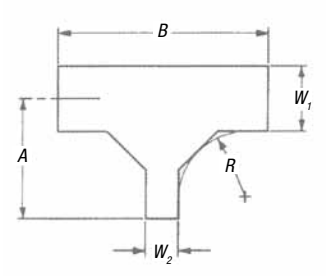
### Catalog Numbering System

| NM | - | M | 6 | P | 24 | 12 | HT | 12 |
|---|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width 1 | Width 2 | Type | Radius |



*Sample mitered fitting*




### Horizontal Reducing Tee — 12" Radius

| TRAY WIDTH | | | 12" RADIUS | |
|---|---|---|---|---|
| W1 IN. | W2 IN. | CAT. NO. | A IN. | B IN. |
| 9 | 6 | NM-M6-(MATL)-09-06-HT12 | 20¾ | 38½ |
| 12 | 6 | NM-M6-(MATL)-12-06-HT12 | 22½ | 38½ |
| | 9 | NM-M6-(MATL)-12-09-HT12 | 22¼ | 41½ |
| 18 | 6 | NM-M6-(MATL)-18-06-HT12 | 25¼ | 38½ |
| | 9 | NM-M6-(MATL)-18-09-HT12 | 25¼ | 41½ |
| | 12 | NM-M6-(MATL)-18-12-HT12 | 25¼ | 44½ |
| 24 | 6 | NM-M6-(MATL)-24-06-HT12 | 28¼ | 38½ |
| | 9 | NM-M6-(MATL)-24-09-HT12 | 28¼ | 41½ |
| | 12 | NM-M6-(MATL)-24-12-HT12 | 28¼ | 44½ |
| | 18 | NM-M6-(MATL)-24-18-HT12 | 28¼ | 50½ |
| 30 | 6 | NM-M6-(MATL)-30-06-HT12 | 31¼ | 38½ |
| | 9 | NM-M6-(MATL)-30-09-HT12 | 31¼ | 41½ |
| | 12 | NM-M6-(MATL)-30-12-HT12 | 31¼ | 44½ |
| | 18 | NM-M6-(MATL)-30-18-HT12 | 31¼ | 50½ |
| | 24 | NM-M6-(MATL)-30-24-HT12 | 31¼ | 56½ |
| 36 | 6 | NM-M6-(MATL)-36-06-HT12 | 34¼ | 38½ |
| | 9 | NM-M6-(MATL)-36-09-HT12 | 34¼ | 41½ |
| | 12 | NM-M6-(MATL)-36-12-HT12 | 34¼ | |
| | 18 | NM-M6-(MATL)-36-18-HT12 | 34¼ | 50½ |
| | 24 | NM-M6-(MATL)-36-24-HT12 | 34¼ | 56½ |
| | 30 | NM-M6-(MATL)-36-30-HT12 | 34¼ | 62½ |

### Horizontal Reducing Tee — 24" or 36" Radius

| TRAY WIDTH | | CAT. NO. | 24" RADIUS | | 36" RADIUS | |
|---|---|---|---|---|---|---|
| W1 IN. | W2 IN. | *INSERT RADIUS (24" OR 36") | A IN. | B IN. | A IN. | B IN |
| 9 | 6 | NM-M6-(MATL)-09-06HT* | 35¾ | 68½ | 47¾ | 92½ |
| 12 | 6 | NM-M6-(MATL)-12-06HT* | 37¼ | 68½ | 49¼ | 92½ |
| | 9 | NM-M6-(MATL)-12-09HT* | 37¼ | 71½ | 49¼ | 95½ |
| 18 | 6 | NM-M6-(MATL)-18-06HT* | 40¼ | 68½ | 52¼ | 92½ |
| | 9 | NM-M6-(MATL)-18-09HT* | 40¼ | 71½ | 52¼ | 95½ |
| | 12 | NM-M6-(MATL)-18-12HT* | 40¼ | 74½ | 52¼ | 98½ |
| 24 | 6 | NM-M6-(MATL)-24-06HT* | 43¼ | 68½ | 55¼ | 92½ |
| | 9 | NM-M6-(MATL)-24-09HT* | 43¼ | 71½ | 55¼ | 95½ |
| | 12 | NM-M6-(MATL)-24-12HT* | 43¼ | 74½ | 55¼ | 98½ |
| | 18 | NM-M6-(MATL)-24-18HT* | 43¼ | 80½ | 55¼ | 104½ |
| 30 | 6 | NM-M6-(MATL)-30-06HT* | 46¼ | 68½ | 58¼ | 92½ |
| | 9 | NM-M6-(MATL)-30-09HT* | 46¼ | 71½ | 58¼ | 95½ |
| | 12 | NM-M6-(MATL)-30-12HT* | 46¼ | 74½ | 58¼ | 98½ |
| | 18 | NM-M6-(MATL)-30-18HT* | 46¼ | 80½ | 58¼ | 104½ |
| | 24 | NM-M6-(MATL)-30-24HT* | 46¼ | 80½ | 58¼ | 110½ |
| 36 | 6 | NM-M6-(MATL)-36-06HT* | 49¼ | 68½ | 61¼ | 92½ |
| | 9 | NM-M6-(MATL)-36-09HT* | 49¼ | 71½ | 61¼ | 95½ |
| | 12 | NM-M6-(MATL)-36-12HT* | 49¼ | 74½ | 61¼ | 98½ |
| | 18 | NM-M6-(MATL)-36-18HT* | 49¼ | 80½ | 61¼ | 104½ |
| | 24 | NM-M6-(MATL)-36-24HT* | 49¼ | 86½ | 61¼ | 110½ |
| | 30 | NM-M6-(MATL)-36-30HT* | 49¼ | 92½ | 61¼ | 116½ |

*Two pair of stainless steel SS6 splice plates with SS6 hardware included.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

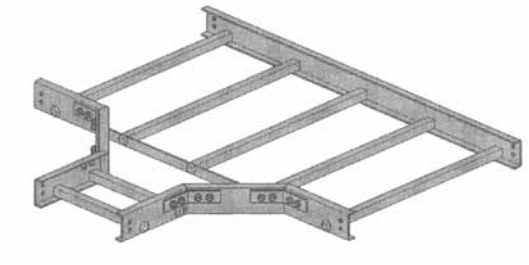
*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*

## Non-Metallic Tray

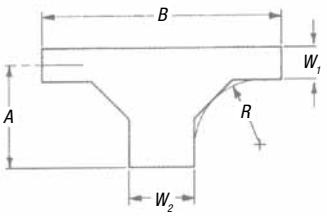
# 6" Horizontal Expanding Tee

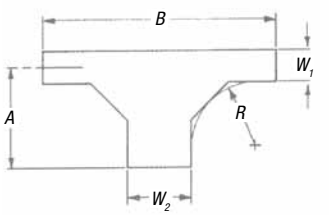
### Catalog Numbering System

| NM | - | M | 6 | P | 12 | 24 | HT | 12 |
|---|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width 1 | Width 2 | Type | Radius |



*Sample mitered fitting*




### Horizontal Expanding Tee — 12" Radius

| TRAY WIDTH | | | 12" RADIUS | |
|---|---|---|---|---|
| W1 IN. | W2 IN. | CAT. NO. | A IN. | B IN. |
| 6 | 9 | NM-M6-(MATL)-06-09-HT12 | 19¼ | 41½ |
| | 12 | NM-M6-(MATL)-06-12-HT12 | 19¼ | 44½ |
| | 18 | NM-M6-(MATL)-06-18-HT12 | 19¼ | 50½ |
| | 24 | NM-M6-(MATL)-06-24-HT12 | 19¼ | 56½ |
| | 30 | NM-M6-(MATL)-06-30-HT12 | 19¼ | 62½ |
| | 36 | NM-M6-(MATL)-06-36-HT12 | 19¼ | 68½ |
| 9 | 12 | NM-M6-(MATL)-09-12-HT12 | 20¾ | 44½ |
| | 18 | NM-M6-(MATL)-09-18-HT12 | 20¾ | 50½ |
| | 24 | NM-M6-(MATL)-09-24-HT12 | 20¾ | 56½ |
| | 30 | NM-M6-(MATL)-09-30-HT12 | 20¾ | 62½ |
| | 36 | NM-M6-(MATL)-09-36-HT12 | 20¾ | 68½ |
| 12 | 18 | NM-M6-(MATL)-12-18-HT12 | 22¼ | 50½ |
| | 24 | NM-M6-(MATL)-12-24-HT12 | 22¼ | 56½ |
| | 30 | NM-M6-(MATL)-12-30-HT12 | 22¼ | 62½ |
| | 36 | NM-M6-(MATL)-12-36-HT12 | 22¼ | 68½ |
| 18 | 24 | NM-M6-(MATL)-18-24-HT12 | 25¼ | 56½ |
| | 30 | NM-M6-(MATL)-18-30-HT12 | 25¼ | 62½ |
| | 36 | NM-M6-(MATL)-18-36-HT12 | 25¼ | 68½ |
| 24 | 30 | NM-M6-(MATL)-24-30-HT12 | 28¼ | 62½ |
| | 36 | NM-M6-(MATL)-24-36-HT12 | 28¼ | 68½ |
| 30 | 36 | NM-M6-(MATL)-30-36-HT12 | 31¾ | 68½ |

### Horizontal Expanding Tee — 24" or 36" Radius

| TRAY WIDTH | | CAT. NO. | 24" RADIUS | | 36" RADIUS | |
|---|---|---|---|---|---|---|
| W1 IN. | W2 IN. | *INSERT RADIUS (24" OR 36") | A IN. | B IN. | A IN. | B IN |
| 6 | 9 | NM-M6-(MATL)-06-09-HT* | 34¼ | 71½ | 46¼ | 95½ |
| | 12 | NM-M6-(MATL)-06-12-HT* | 34¼ | 74½ | 46¼ | 98½ |
| | 18 | NM-M6-(MATL)-06-18-HT* | 34¼ | 80½ | 46¼ | 104½ |
| | 24 | NM-M6-(MATL)-06-24-HT* | 34¼ | 86½ | 46¼ | 110½ |
| | 30 | NM-M6-(MATL)-06-30-HT* | 34¼ | 92½ | 46¼ | 116½ |
| | 36 | NM-M6-(MATL)-06-36-HT* | 34¼ | 98½ | 46¼ | 122½ |
| 9 | 12 | NM-M6-(MATL)-09-12-HT* | 35¾ | 74½ | 47¾ | 98½ |
| | 18 | NM-M6-(MATL)-09-18-HT* | 35¾ | 80½ | 47¾ | 104½ |
| | 24 | NM-M6-(MATL)-09-24-HT* | 35¾ | 86½ | 47¾ | 110½ |
| | 30 | NM-M6-(MATL)-09-30-HT* | 35¾ | 92½ | 47¾ | 116½ |
| | 36 | NM-M6-(MATL)-09-36-HT* | 35¾ | 98½ | 47¾ | 122½ |
| 12 | 18 | NM-M6-(MATL)-12-18-HT* | 37¼ | 80½ | 49¼ | 104½ |
| | 24 | NM-M6-(MATL)-12-24-HT* | 37¼ | 86½ | 49¼ | 110½ |
| | 30 | NM-M6-(MATL)-12-30-HT* | 37¼ | 92½ | 49¼ | 116½ |
| | 36 | NM-M6-(MATL)-12-36-HT* | 37¼ | 98½ | 49¼ | 122½ |
| 18 | 24 | NM-M6-(MATL)-18-24-HT* | 40¼ | 86½ | 52¼ | 110½ |
| | 30 | NM-M6-(MATL)-18-30-HT* | 40¼ | 92½ | 52¼ | 116½ |
| | 36 | NM-M6-(MATL)-18-36-HT* | 40¼ | 98½ | 52¼ | 122½ |
| 24 | 30 | NM-M6-(MATL)-24-30-HT* | 43¼ | 92½ | 55¼ | 116½ |
| | 36 | NM-M6-(MATL)-24-36-HT* | 43¼ | 98½ | 55¼ | 122½ |
| 30 | 36 | NM-M6-(MATL)-30-36-HT* | 46¼ | 98½ | 58¼ | 122½ |

*Two pair of stainless steel SS6 splice plates with SS6 hardware included.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*



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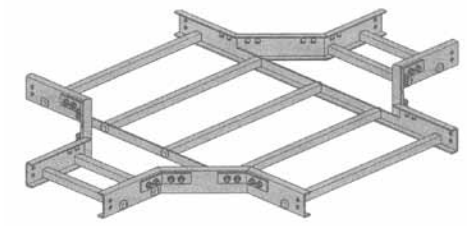
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## Non-Metallic Tray

# 3" Horizontal Expanding/Reducing Cross

### Catalog Numbering System

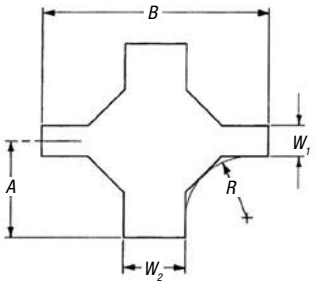
| NM | - | M | 3 | P | 24 | 12 | HX | 12 |
|---|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width 1 | Width 2 | Type | Radius |



*Sample mitered fitting*

### Horizontal Expanding/Reducing Cross

| TRAY WIDTH | | | 12" RADIUS | |
|---|---|---|---|---|
| W1 IN. | W2 IN. | CAT. NO. | A IN. | B IN. |
| 9 | 6 | **NM-M3-(MATL)-09-06-HX12** | 19¼ | 41½ |
| 12 | 6 | **NM-M3-(MATL)-12-06-HX12** | 19¼ | 44½ |
| | 9 | **NM-M3-(MATL)-12-09-HX12** | 20¾ | 44½ |
| 18 | 6 | **NM-M3-(MATL)-18-06-HX12** | 19¼ | 50½ |
| | 9 | **NM-M3-(MATL)-18-09-HX12** | 20¾ | 50½ |
| | 12 | **NM-M3-(MATL)-18-12-HX12** | 22¼ | 50½ |
| 24 | 6 | **NM-M3-(MATL)-24-06-HX12** | 19¼ | 56½ |
| | 9 | **NM-M3-(MATL)-24-09-HX12** | 20¾ | 56½ |
| | 12 | **NM-M3-(MATL)-24-12-HX12** | 22¼ | 56½ |
| | 18 | **NM-M3-(MATL)-24-18-HX12** | 25¼ | 56½ |




*Three pairs of stainless steel SS6 splice plates with SS6 hardware included.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

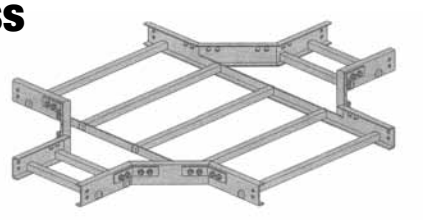
*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*

## Non-Metallic Tray

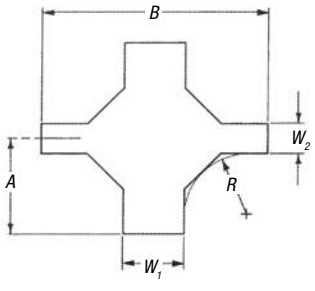
# 4" Horizontal Expanding/Reducing Cross

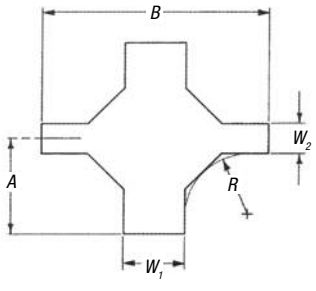
### Catalog Numbering System

| NM | - | M | 4 | P | 24 | 30 | HX | 12 |
|---|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width 1 | Width 2 | Type | Radius |



*Sample mitered fitting*




### Horizontal Expanding/Reducing Cross — 12" or 24" Radius

| TRAY WIDTH | | CAT. NO. | 12" RADIUS | | 24" RADIUS | |
|---|---|---|---|---|---|---|
| W1 IN. | W2 IN. | *INSERT RADIUS (12" OR 24") | A IN. | B IN. | A IN. | B IN |
| 9 | 9 | NM-M4-(MATL)-06-09-HX* | 22¼ | 47½ | 34¼ | 71½ |
| | 12 | NM-M4-(MATL)-06-12-HX* | 22¼ | 50½ | 34¼ | 74½ |
| | 18 | NM-M4-(MATL)-06-18-HX* | 22¼ | 56½ | 34¼ | 80½ |
| | 24 | NM-M4-(MATL)-06-24-HX* | 22¼ | 62½ | 34¼ | 86½ |
| | 30 | NM-M4-(MATL)-06-30-HX* | 22¼ | 68½ | 34¼ | 92½ |
| | 36 | NM-M4-(MATL)-06-36-HX* | 22¼ | 74½ | 34¼ | 98½ |
| 12 | 12 | NM-M4-(MATL)-09-12-HX* | 23¾ | 50½ | 35¾ | 74½ |
| | 18 | NM-M4-(MATL)-09-18-HX* | 23¾ | 56½ | 35¾ | 80½ |
| | 24 | NM-M4-(MATL)-09-24-HX* | 23¾ | 62½ | 35¾ | 86½ |
| | 30 | NM-M4-(MATL)-09-30-HX* | 23¾ | 68½ | 35¾ | 92½ |
| | 36 | NM-M4-(MATL)-09-36-HX* | 23¾ | 74½ | 35¾ | 98½ |
| 18 | 18 | NM-M4-(MATL)-12-18-HX* | 25¼ | 56½ | 37¼ | 80½ |
| | 24 | NM-M4-(MATL)-12-24-HX* | 25¼ | 62½ | 37¼ | 86½ |
| | 30 | NM-M4-(MATL)-12-30-HX* | 25¼ | 68½ | 37¼ | 92½ |
| | 36 | NM-M4-(MATL)-12-36-HX* | 25¼ | 74½ | 37¼ | 98½ |
| 24 | 24 | NM-M4-(MATL)-18-24-HX* | 28¼ | 62½ | 40¼ | 86½ |
| | 30 | NM-M4-(MATL)-18-30-HX* | 28¼ | 68½ | 40¼ | 92½ |
| | 36 | NM-M4-(MATL)-18-36-HX* | 28¼ | 74½ | 40¼ | 98½ |
| 30 | 30 | NM-M4-(MATL)-24-30-HX* | 31¼ | 68½ | 43¼ | 92½ |
| | 36 | NM-M4-(MATL)-24-36-HX* | 31¼ | 74½ | 43¼ | 98½ |
| 36 | 36 | NM-M4-(MATL)-30-36-HX* | 34¼ | 74½ | 46¼ | 98½ |

### Horizontal Expanding/Reducing Cross — 36" Radius

| TRAY WIDTH | | | 36" RADIUS | |
|---|---|---|---|---|
| W1 IN. | W2 IN. | CAT. NO. | A IN. | B IN. |
| 9 | 9 | NM-M4-(MATL)-06-09-HX36 | 43¼ | 89½ |
| | 12 | NM-M4-(MATL)-06-12-HX36 | 43¼ | 92½ |
| | 18 | NM-M4-(MATL)-06-18-HX36 | 43¼ | 98½ |
| | 24 | NM-M4-(MATL)-06-24-HX36 | 43¼ | 104½ |
| | 30 | NM-M4-(MATL)-06-30-HX36 | 43¼ | 110½ |
| | 36 | NM-M4-(MATL)-06-36-HX36 | 43¼ | 116½ |
| 12 | 12 | NM-M4-(MATL)-09-12-HX36 | 44¾ | 92½ |
| | 18 | NM-M4-(MATL)-09-18-HX36 | 44¾ | 98½ |
| | 24 | NM-M4-(MATL)-09-24-HX36 | 44¾ | 104½ |
| | 30 | NM-M4-(MATL)-09-30-HX36 | 44¾ | 110½ |
| | 36 | NM-M4-(MATL)-09-36-HX36 | 44¾ | 116½ |
| 18 | 18 | NM-M4-(MATL)-12-18-HX36 | 46¼ | 98½ |
| | 24 | NM-M4-(MATL)-12-24-HX36 | 46¼ | 104½ |
| | 30 | NM-M4-(MATL)-12-30-HX36 | 46¼ | 110½ |
| | 36 | NM-M4-(MATL)-12-36-HX36 | 46¼ | 116½ |
| 24 | 24 | NM-M4-(MATL)-18-24-HX36 | 49¼ | 104½ |
| | 30 | NM-M4-(MATL)-18-30-HX36 | 49¼ | 110½ |
| | 36 | NM-M4-(MATL)-18-36-HX36 | 49¼ | 116½ |
| 30 | 30 | NM-M4-(MATL)-24-30-HX36 | 52¼ | 110½ |
| | 36 | NM-M4-(MATL)-24-36-HX36 | 52¼ | 116½ |
| 36 | 36 | NM-M4-(MATL)-30-36-HX36 | 52¼ | 116½ |

*Three pairs of stainless steel SS6 splice plates with SS6 hardware included.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*



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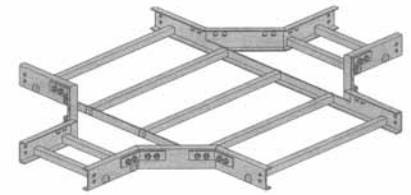
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## Non-Metallic Tray

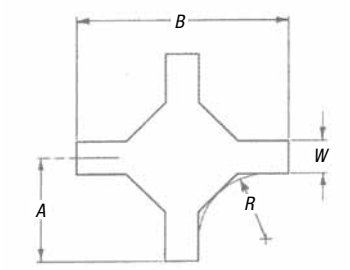
# 6" Horizontal Expanding/Reducing Cross

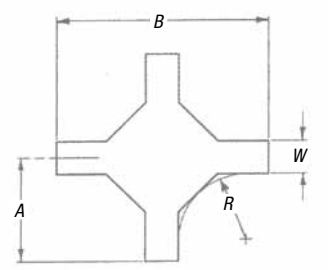
### Catalog Numbering System

| NM | - | M | 6 | P | 24 | 12 | HX | 12 |
|---|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width 1 | Width 2 | Type | Radius |



*Sample mitered fitting*




### Horizontal Expanding/Reducing Cross — 12" Radius

| TRAY WIDTH | | | 12" RADIUS | |
|---|---|---|---|---|
| W1 IN. | W2 IN. | CAT. NO. | A IN. | B IN. |
| 9 | 6 | NM-M6-(MATL)-09-06-HX12 | 19¼ | 41½ |
| 12 | 6 | NM-M6-(MATL)-12-06-HX12 | 19¼ | 44½ |
| | 9 | NM-M6-(MATL)-12-09-HX12 | 20¾ | 44½ |
| 18 | 6 | NM-M6-(MATL)-18-06-HX12 | 19¼ | 50½ |
| | 9 | NM-M6-(MATL)-18-09-HX12 | 20¾ | 50½ |
| | 12 | NM-M6-(MATL)-18-12-HX12 | 22¼ | 50½ |
| 24 | 6 | NM-M6-(MATL)-24-06-HX12 | 19¼ | 56½ |
| | 9 | NM-M6-(MATL)-24-09-HX12 | 20¾ | 56½ |
| | 12 | NM-M6-(MATL)-24-12-HX12 | 22¼ | 56½ |
| | 18 | NM-M6-(MATL)-24-18-HX12 | 25¼ | 56½ |
| 30 | 6 | NM-M6-(MATL)-30-06-HX12 | 19¼ | 62½ |
| | 9 | NM-M6-(MATL)-30-09-HX12 | 20¾ | 62½ |
| | 12 | NM-M6-(MATL)-30-12-HX12 | 22¼ | 62½ |
| | 18 | NM-M6-(MATL)-30-18-HX12 | 25¼ | 62½ |
| | 24 | NM-M6-(MATL)-30-24-HX12 | 28¼ | 62½ |
| 36 | 6 | NM-M6-(MATL)-36-06-HX12 | 19¼ | 68½ |
| | 9 | NM-M6-(MATL)-36-09-HX12 | 20¾ | 68½ |
| | 12 | NM-M6-(MATL)-36-12-HX12 | 22¼ | 68½ |
| | 18 | NM-M6-(MATL)-36-18-HX12 | 25¼ | 68½ |
| | 24 | NM-M6-(MATL)-36-24-HX12 | 28¼ | 68½ |
| | 30 | NM-M6-(MATL)-36-30-HX12 | 31¼ | 68½ |

### Horizontal Expanding/Reducing Cross — 24" or 36" Radius

| TRAY WIDTH | | CAT. NO. | 24" RADIUS | | 36" RADIUS | |
|---|---|---|---|---|---|---|
| W1 IN. | W2 IN. | *INSERT RADIUS (24" OR 36") | A IN. | B IN. | A IN. | B IN |
| 6 | 9 | NM-M6-(MATL)-06-09-HT* | 34¼ | 71½ | 46¼ | 95½ |
| | 12 | NM-M6-(MATL)-06-12-HT* | 34¼ | 74½ | 46¼ | 98½ |
| | 18 | NM-M6-(MATL)-06-18-HT* | 34¼ | 80½ | 46¼ | 104½ |
| | 24 | NM-M6-(MATL)-06-24-HT* | 34¼ | 86½ | 46¼ | 110½ |
| | 30 | NM-M6-(MATL)-06-30-HT* | 34¼ | 92½ | 46¼ | 116½ |
| | 36 | NM-M6-(MATL)-06-36-HT* | 34¼ | 98½ | 46¼ | 122½ |
| 12 | 12 | NM-M6-(MATL)-09-12-HT* | 35¾ | 74½ | 47¾ | 98½ |
| | 18 | NM-M6-(MATL)-09-18-HT* | 35¾ | 80½ | 47¾ | 104½ |
| | 24 | NM-M6-(MATL)-09-24-HT* | 35¾ | 86½ | 47¾ | 110½ |
| | 30 | NM-M6-(MATL)-09-30-HT* | 35¾ | 92½ | 47¾ | 116½ |
| | 36 | NM-M6-(MATL)-09-36-HT* | 35¾ | 98½ | 47¾ | 122½ |
| 18 | 18 | NM-M6-(MATL)-12-18-HT* | 37¼ | 80½ | 49¼ | 104½ |
| | 24 | NM-M6-(MATL)-12-24-HT* | 37¼ | 86½ | 49¼ | 110½ |
| | 30 | NM-M6-(MATL)-12-30-HT* | 37¼ | 92½ | 49¼ | 116½ |
| | 36 | NM-M6-(MATL)-12-36-HT* | 37¼ | 98½ | 49¼ | 122½ |
| | 24 | NM-M6-(MATL)-18-24-HT* | 40¼ | 86½ | 52¼ | 110½ |
| 24 | 30 | NM-M6-(MATL)-18-30-HT* | 40¼ | 92½ | 52¼ | 116½ |
| | 36 | NM-M6-(MATL)-18-36-HT* | 40¼ | 98½ | 52¼ | 122½ |
| 30 | 30 | NM-M6-(MATL)-24-30-HT* | 43¼ | 92½ | 55¼ | 116½ |
| | 36 | NM-M6-(MATL)-24-36-HT* | 43¼ | 98½ | 55¼ | 122½ |
| 36 | 36 | NM-M6-(MATL)-30-36-HT* | 46¼ | 98½ | 58¼ | 122½ |

*Three pairs of stainless steel SS6 splice plates with SS6 hardware included.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

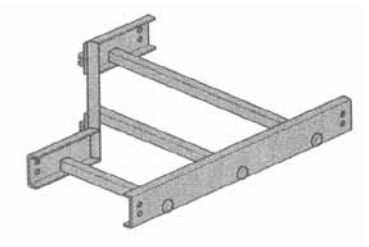
*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*

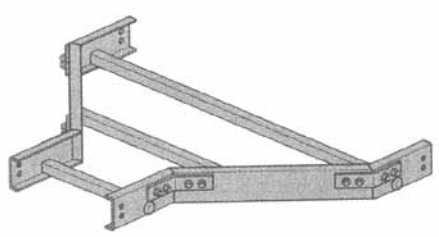
## Non-Metallic Tray

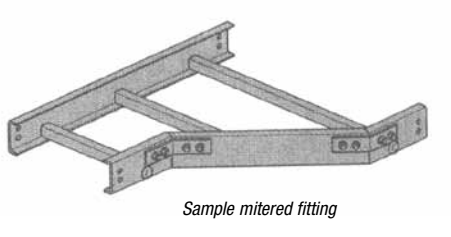
# 3" Horizontal Reducers

### Catalog Numbering System

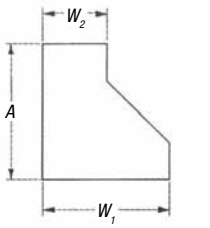
| NM | - | M | 3 | P | 24 | LR | 12 |
|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width 1 | Type | Width 2 |



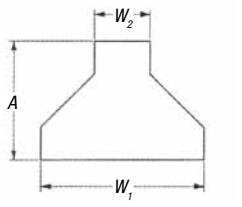




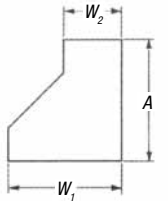
*Sample mitered fitting*




*Left-Hand Reducer*




*Straight Reducer*




*Right-Hand Reducer*

### Horizontal Reducers

| TRAY WIDTH | | LEFT-HAND REDUCER | | STRAIGHT REDUCER | | RIGHT-HAND REDUCER | |
|---|---|---|---|---|---|---|---|
| W1 IN. | W2 IN. | CAT. NO. | A (IN.) | CAT. NO. | A (IN.) | CAT. NO. | A (IN.) |
| 9 | 6 | **NM-M3-(MATL)-09-LR06** | 17½ | **NM-M3-(MATL)-09-SR06** | 16 | **NM-M3-(MATL)-09-RR06** | 17½ |
| 12 | 9 | **NM-M3-(MATL)-12-LR09** | 17½ | **NM-M3-(MATL)-12-SR09** | 16 | **NM-M3-(MATL)-12-RR09** | 17½ |
| | 6 | **NM-M3-(MATL)-18-LR06** | 26½ | **NM-M3-(MATL)-18-SR06** | 20½ | **NM-M3-(MATL)-18-RR06** | 26½ |
| 18 | 9 | **NM-M3-(MATL)-18-LR09** | 23½ | **NM-M3-(MATL)-18-SR09** | 19 | **NM-M3-(MATL)-18-RR09** | 23½ |
| | 12 | **NM-M3-(MATL)-18-LR12** | 20½ | **NM-M3-(MATL)-18-SR12** | 17½ | **NM-M3-(MATL)-18-RR12** | 20½ |
| 24 | 6 | **NM-M3-(MATL)-24-LR06** | 32½ | **NM-M3-(MATL)-24-SR06** | 23½ | **NM-M3-(MATL)-24-RR06** | 32½ |
| | 9 | **NM-M3-(MATL)-24-LR09** | 29½ | **NM-M3-(MATL)-24-SR09** | 22 | **NM-M3-(MATL)-24-RR09** | 29½ |
| | 12 | **NM-M3-(MATL)-24-LR12** | 26½ | **NM-M3-(MATL)-24-SR12** | 20½ | **NM-M3-(MATL)-24-RR12** | 26½ |
| | 18 | **NM-M3-(MATL)-24-LR18** | 20½ | **NM-M3-(MATL)-24-SR18** | 17½ | **NM-M3-(MATL)-24-RR18** | 20½ |

*One pair of stainless steel SS6 splice plates with SS6 hardware included.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*



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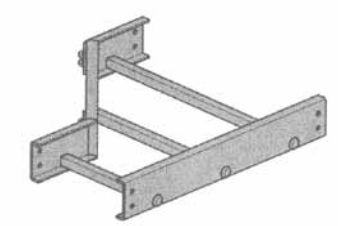
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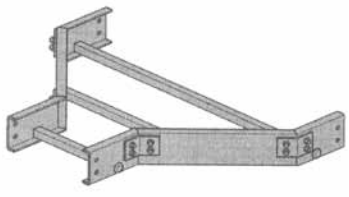
## Non-Metallic Tray

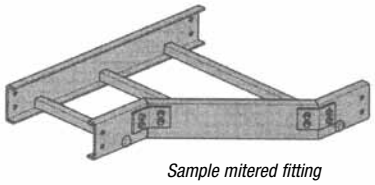
# 4" Horizontal Reducers

### Catalog Numbering System

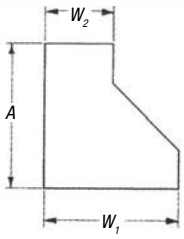
| NM | - | M | 4 | P | 24 | LR | 12 |
|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width 1 | Type | Width 2 |



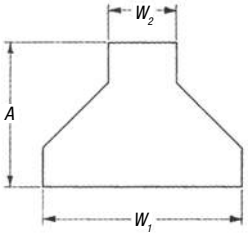




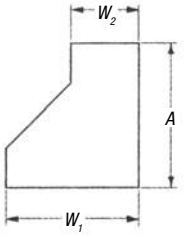
*Sample mitered fitting*




*Left-Hand Reducer*




*Straight Reducer*




*Right-Hand Reducer*

### Horizontal Reducers

| TRAY WIDTH | | LEFT-HAND REDUCER | | STRAIGHT REDUCER | | RIGHT-HAND REDUCER | |
|---|---|---|---|---|---|---|---|
| W1 IN. | W2 IN. | CAT. NO. | A IN. | CAT. NO. | A IN. | CAT. NO. | A IN. |
| 9 | 6 | NM-M4-(MATL)-09-LR06 | 17½ | NM-(MATL)-09-SR06 | 16 | NM-(MATL)-09-RR06 | 17½ |
| 12 | 6 | NM-M4-(MATL)-12-LR06 | 20½ | NM-(MATL)-12-SR06 | 17½ | NM-(MATL)-12-RR06 | 20½ |
| | 9 | NM-M4-(MATL)-12-LR09 | 17½ | NM-(MATL)-12-SR09 | 16 | NM-(MATL)-12-RR09 | 17½ |
| 18 | 6 | NM-M4-(MATL)-18-LR06 | 26½ | NM-(MATL)-18-SR06 | 20½ | NM-(MATL)-18-RR06 | 26½ |
| | 9 | NM-M4-(MATL)-18-LR09 | 23½ | NM-(MATL)-18-SR09 | 19 | NM-(MATL)-18-RR09 | 23½ |
| | 12 | NM-M4-(MATL)-18-LR12 | 20½ | NM-(MATL)-18-SR12 | 17½ | NM-(MATL)-18-RR12 | 20½ |
| 24 | 6 | NM-M4-(MATL)-24-LR06 | 32½ | NM-(MATL)-24-SR06 | 23½ | NM-(MATL)-24-RR06 | 32½ |
| | 9 | NM-M4-(MATL)-24-LR09 | 29½ | NM-(MATL)-24-SR09 | 22 | NM-(MATL)-24-RR09 | 29½ |
| | 12 | NM-M4-(MATL)-24-LR12 | 26½ | NM-(MATL)-24-SR12 | 20½ | NM-(MATL)-24-RR12 | 26½ |
| | 18 | NM-M4-(MATL)-24-LR18 | 20½ | NM-(MATL)-24-SR18 | 17½ | NM-(MATL)-24-RR18 | 20½ |
| 30 | 6 | NM-M4-(MATL)-30-LR06 | 38½ | NM-(MATL)-30-SR06 | 26½ | NM-(MATL)-30-RR06 | 38½ |
| | 9 | NM-M4-(MATL)-30-LR09 | 35½ | NM-(MATL)-30-SR09 | 25 | NM-(MATL)-30-RR09 | 35½ |
| | 12 | NM-M4-(MATL)-30-LR12 | 32½ | NM-(MATL)-30-SR12 | 23½ | NM-(MATL)-30-RR12 | 32½ |
| | 18 | NM-M4-(MATL)-30-LR18 | 26½ | NM-(MATL)-30-SR18 | 20½ | NM-(MATL)-30-RR18 | 26½ |
| | 24 | NM-M4-(MATL)-30-LR24 | 20½ | NM-(MATL)-30-SR24 | 17½ | NM(MATL)30RR24 | 20½ |
| 36 | 6 | NM-M4-(MATL)-36-LR06 | 44½ | NM-(MATL)-36-SR06 | 29½ | NM-(MATL)-36-RR06 | 44½ |
| | 9 | NM-M4-(MATL)-36-LR09 | 41½ | NM-(MATL)-36-SR09 | 28 | NM-(MATL)-36-RR09 | 41½ |
| | 12 | NM-M4-(MATL)-36-LR12 | 38½ | NM-(MATL)-36-SR12 | 26½ | NM-(MATL)-36-RR12 | 38½ |
| | 18 | NM-M4-(MATL)-36-LR18 | 32½ | NM-(MATL)-36-SR18 | 23½ | NM-(MATL)-36-RR18 | 32½ |
| | 24 | NM-M4-(MATL)-36-LP24 | 26½ | NM-(MATL)-36-SP24 | 20½ | NM-(MATL)-36-RR24 | 26½ |
| | 30 | NM-M4-(MATL)-36-LR30 | 20½ | NM-(MATL)-36-SR30 | 17½ | NM-(MATL)-36-RR30 | 20½ |

*One pair of stainless steel SS6 splice plates with SS6 hardware included.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

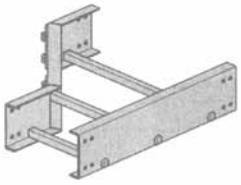
*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*

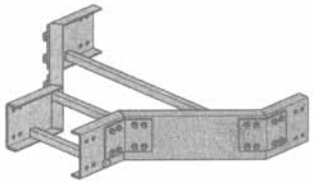
## Non-Metallic Tray

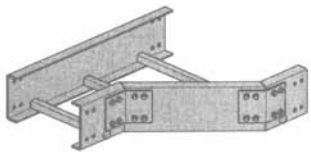
# 6" Horizontal Reducers

### Catalog Numbering System

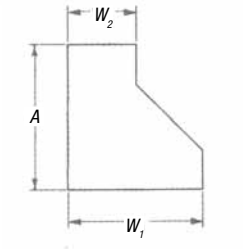
| NM | - | M | 6 | P | 24 | LR | 12 |
|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width 1 | Type | Width 2 |



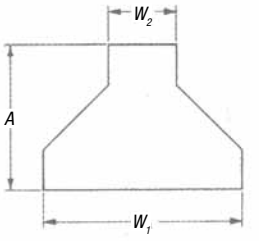




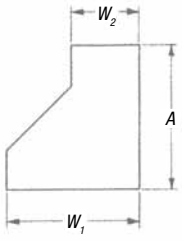
*Sample mitered fitting*




*Left-Hand Reducer*




*Straight Reducer*




*Right-Hand Reducer*

### Horizontal Reducers

| TRAY WIDTH | | LEFT-HAND REDUCER | | STRAIGHT REDUCER | | RIGHT-HAND REDUCER | |
|---|---|---|---|---|---|---|---|
| W1 IN. | W2 IN. | CAT. NO. | A IN. | CAT. NO. | A IN. | CAT. NO. | A IN. |
| 9 | 6 | NM-(MATL)-09-LR06 | 17½ | NM-(MATL)-09-SR06 | 16 | NM-(MATL)-09-RR06 | 17½ |
| 12 | 6 | NM-(MATL)-12-LR06 | 20½ | NM-(MATL)-12-SR06 | 17½ | NM-(MATL)-12-RR06 | 20½ |
| | 9 | NM-(MATL)-12-LR09 | 17½ | NM-(MATL)-12-SR09 | 16 | NM-(MATL)-12-RR09 | 17½ |
| 18 | 6 | NM-(MATL)-18-LR06 | 26½ | NM-(MATL)-18-SR06 | 20½ | NM-(MATL)-18-RR06 | 6½ |
| | 9 | NM-(MATL)-18-LR09 | 23½ | NM-(MATL)-18-SR09 | 19 | NM-(MATL)-18-RR09 | 23½ |
| | 12 | NM-(MATL)-18-LR12 | 20½ | NM-(MATL)-18-SR12 | 17½ | NM-(MATL)-18-RR12 | 20½ |
| 24 | 6 | NM-(MATL)-24-LR06 | 32½ | NM-(MATL)-24-SR06 | 23½ | NM-(MATL)-24-RR06 | 32½ |
| | 9 | NM-(MATL)-24-LR09 | 29½ | NM-(MATL)-24-SR09 | 22 | NM-(MATL)-24-RR09 | 29½ |
| | 12 | NM-(MATL)-24-LR12 | 26½ | NM-(MATL)-24-SR12 | 20½ | NM-(MATL)-24-RR12 | 26½ |
| | 18 | NM-(MATL)-24-LR18 | 20½ | NM-(MATL)-24-SR18 | 17½ | NM-(MATL)-24-RR18 | 20½ |
| 30 | 6 | NM-(MATL)-30-LR06 | 38½ | NM-(MATL)-30-SR06 | 26½ | NM-(MATL)-30-RR06 | 38½ |
| | 9 | NM-(MATL)-30-LR09 | 35½ | NM-(MATL)-30-SR09 | 25 | NM-(MATL)-30-RR09 | 35½ |
| | 12 | NM-(MATL)-30-LR12 | 32½ | NM-(MATL)-30-SR12 | 23½ | NM-(MATL)-30-RR12 | 32½ |
| | 18 | NM-(MATL)-30-LR18 | 26½ | NM-(MATL)-30-SR18 | 20½ | NM-(MATL)-30-RR18 | 26½ |
| | 24 | NM-(MATL)-30-LR24 | 20½ | NM-(MATL)-30-SR24 | 17½ | NM-(MATL)-30-RR24 | 20½ |
| 36 | 6 | NM-(MATL)-36-LR06 | 44½ | NM-(MATL)-36-SR06 | 29½ | NM-(MATL)-36-RR06 | 44½ |
| | 9 | NM-(MATL)-36-LR09 | 41½ | NM-(MATL)-36-SR09 | 28 | NM-(MATL)-36-RR09 | 41½ |
| | 12 | NM-(MATL)-36-LR12 | 38½ | NM-(MATL)-36-SR12 | 26½ | NM-(MATL)-36-RR12 | 38½ |
| | 18 | NM-(MATL)-36-LR18 | 32½ | NM-(MATL)-36-SR18 | 23½ | NM-(MATL)-36-RR18 | 32½ |
| | 24 | NM-(MATL)-36-LR24 | 26½ | NM-(MATL)-36-SR24 | 20½ | NM-(MATL)-36-RR24 | 26½ |
| | 30 | NM-(MATL)-36-LR30 | 20½ | NM-(MATL)-36-SR30 | 17½ | NM-(MATL)-36-RR30 | 20½ |

*One pair of stainless steel SS6 splice plates with SS6 hardware included.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*



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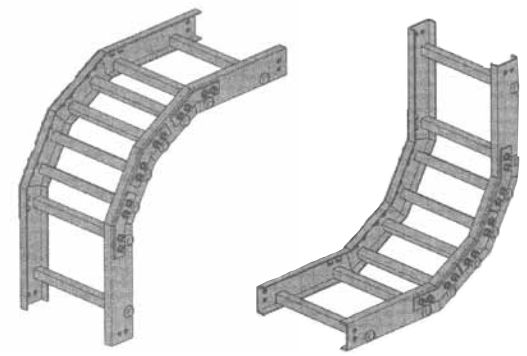
www.tnb.com

## Non-Metallic Tray

# 3" Vertical Bends

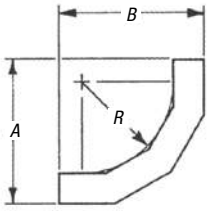
### Catalog Numbering System

| NM | - | M | 3 | P | 24 | 90 | VI | 12 |
|---|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width | Angle | Type | Radius |

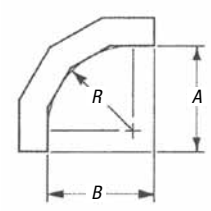


*VO Vertical Outside Bend*
*Sample Mitered*

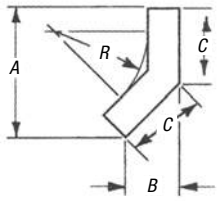
*VI Vertical Inside Bend*
*Sample Mitered*



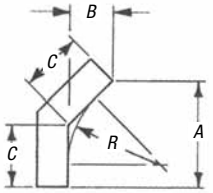

*VI*
*90° Mitered*




*VO*
*90° Mitered*




*VI*
*45° Mitered*




*VO*
*45° Mitered*

### 90° Vertical Bend

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | VERTICAL OUTSIDE BEND A IN. | VERTICAL OUTSIDE BEND B IN. | VERTICAL INSIDE BEND A IN. | VERTICAL INSIDE BEND B IN. |
|---|---|---|---|---|---|---|
| 12 | 6 | NM-M3-(MATL)-06-90(*)12 | 23 15/16 | 23 15/16 | 26 15/16 | 26 15/16 |
| | 9 | NM-M3-(MATL)-09-90(*)12 | | | | |
| | 12 | NM-M3-(MATL)-12-90(*)12 | | | | |
| | 18 | NM-M3-(MATL)-18-90(*)12 | | | | |
| | 24 | NM-M3-(MATL)-24-90(*)12 | | | | |

### 45° Vertical Bend

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | VERTICAL OUTSIDE BEND A IN. | VERTICAL OUTSIDE BEND B IN. | VERTICAL OUTSIDE BEND C IN. | VERTICAL INSIDE BEND A IN. | VERTICAL INSIDE BEND B IN. | VERTICAL INSIDE BEND C IN. |
|---|---|---|---|---|---|---|---|---|
| 12 | 6 | NM-M3-(MATL)-06-45(*)12 | 20 1/2 | 8 1/2 | 12 | 22 5/8 | 9 3/8 | 13 1/4 |
| | 9 | NM-M3-(MATL)-09-45(*)12 | | | | | | |
| | 12 | NM-M3-(MATL)-12-45(*)12 | | | | | | |
| | 18 | NM-M3-(MATL)-18-45(*)12 | | | | | | |
| | 24 | NM-M3-(MATL)-24-45(*)12 | | | | | | |

** Add: VI - For vertical inside/VO - For vertical outside*
*One pair of stainless steel SS6 splice plates with SS6 hardware included.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*

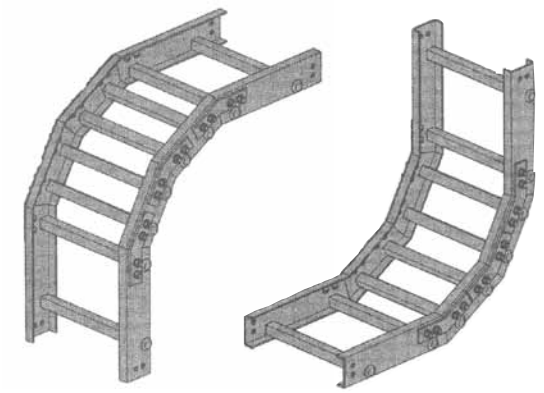
## Non-Metallic Tray

# 4" Vertical Bends

### Catalog Numbering System

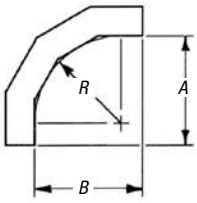
| NM | - | M | 4 | P | 24 | 90 | VI | 12 |
|---|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width | Angle | Type | Radius |

† For molded fitting, if available, please remove "M" in the catalog number.
Ex: NM-4P2490VI12

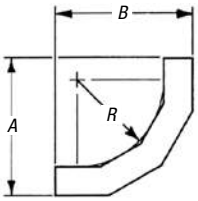


VO Vertical Outside Bend
Sample Mitered

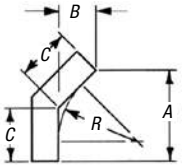
VI Vertical Inside Bend
Sample Mitered



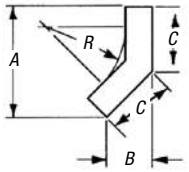

VO
Vertical Outside Bend




VI
Vertical Inside Bend




VO
Vertical Outside Bend




VI
Vertical Inside Bend

### 90° Vertical Bend

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | VERTICAL OUTSIDE BEND A IN. | VERTICAL OUTSIDE BEND B IN. | VERTICAL INSIDE BEND A IN. | VERTICAL INSIDE BEND B IN. |
|---|---|---|---|---|---|---|
| 12 | 6 | †NM-M4-(MATL)-06-90(*)12 | 19¼ | 19¼ | 23¼ | 23¼ |
| | 9 | †NM-M4-(MATL)-09-90(*)12 | | | | |
| | 12 | †NM-M4-(MATL)-12-90(*)12 | | | | |
| | 18 | †NM-M4-(MATL)-18-90(*)12 | | | | |
| | 24 | †NM-M4-(MATL)-24-90(*)12 | | | | |
| | 30 | †NM-M4-(MATL)-30-90(*)12 | | | | |
| | 36 | †NM-M4-(MATL)-36-90(*)12 | | | | |
| 24 | 6 | NM-M4-(MATL)-06-90(*)24 | 31¼ | 31¼ | 35¼ | 35¼ |
| | 9 | NM-M4-(MATL)-09-90(*)24 | | | | |
| | 12 | NM-M4-(MATL)-12-90(*)24 | | | | |
| | 18 | NM-M4-(MATL)-18-90(*)24 | | | | |
| | 24 | NM-M4-(MATL)-24-90(*)24 | | | | |
| | 30 | NM-M4-(MATL)-30-90(*)24 | | | | |
| | 36 | NM-M4-(MATL)-36-90(*)24 | | | | |
| 36 | 6 | NM-M4-(MATL)-06-90(*)36 | 37¾ | 37¾ | 41¾ | 41¾ |
| | 9 | NM-M4-(MATL)-09-90(*)36 | | | | |
| | 12 | NM-M4-(MATL)-12-90(*)36 | | | | |
| | 18 | NM-M4-(MATL)-18-90(*)36 | | | | |
| | 24 | NM-M4-(MATL)-24-90(*)36 | | | | |
| | 30 | NM-M4-(MATL)-30-90(*)36 | | | | |
| | 36 | NM-M4-(MATL)-36-90(*)36 | | | | |

### 45° Vertical Bend

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | VERTICAL OUTSIDE BEND A IN. | VERTICAL OUTSIDE BEND B IN. | VERTICAL OUTSIDE BEND C IN. | VERTICAL INSIDE BEND A IN. | VERTICAL INSIDE BEND B IN. | VERTICAL INSIDE BEND C IN. |
|---|---|---|---|---|---|---|---|---|
| 12 | 6 | †NM-M4-(MATL)-06-45(*)12 | 13⅝ | 5⅝ | 8 | 16⅞ | 2 13/16 | 6 13/16 |
| | 9 | †NM-M4-(MATL)-09-45(*)12 | | | | | | |
| | 12 | †NM-M4-(MATL)-12-45(*)12 | | | | | | |
| | 18 | †NM-M4-(MATL)-18-45(*)12 | | | | | | |
| | 24 | †NM-M4-(MATL)-24-45(*)12 | | | | | | |
| | 30 | †NM-M4-(MATL)-30-45(*)12 | | | | | | |
| | 36 | †NM-M4-(MATL)-36-45(*)12 | | | | | | |
| 24 | 6 | NM-M4-(MATL)-06-45(*)24 | 22 1/16 | 9⅛ | 12 15/16 | 24 15/16 | 10 5/16 | 14⅝ |
| | 9 | NM-M4-(MATL)-09-45(*)24 | | | | | | |
| | 12 | NM-M4-(MATL)-12-45(*)24 | | | | | | |
| | 18 | NM-M4-(MATL)-18-45(*)24 | | | | | | |
| | 24 | NM-M4-(MATL)-24-45(*)24 | | | | | | |
| | 30 | NM-M4-(MATL)-30-45(*)24 | | | | | | |
| | 36 | NM-M4-(MATL)-36-45(*)24 | | | | | | |
| 36 | 6 | NM-M4-(MATL)-06-45(*)36 | 37 1/16 | 15½ | 21 15/16 | 40 5/16 | 16 11/16 | 23⅜ |
| | 9 | NM-M4-(MATL)-09-45(*)36 | | | | | | |
| | 12 | NM-M4-(MATL)-12-45(*)36 | | | | | | |
| | 18 | NM-M4-(MATL)-18-45(*)36 | | | | | | |
| | 24 | NM-M4-(MATL)-24-45(*)36 | | | | | | |
| | 30 | NM-M4-(MATL)-30-45(*)36 | | | | | | |
| | 36 | NM-M4-(MATL)-36-45(*)36 | | | | | | |

*Add VI - For vertical inside/VO - For vertical outside
One pair of stainless steel SS6 splice plates with SS6 hardware included.
† Denotes molded fitting available.

Standard rung spacing for fittings is 9". For other types of splice plates, see **page B-415–B-417**.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.



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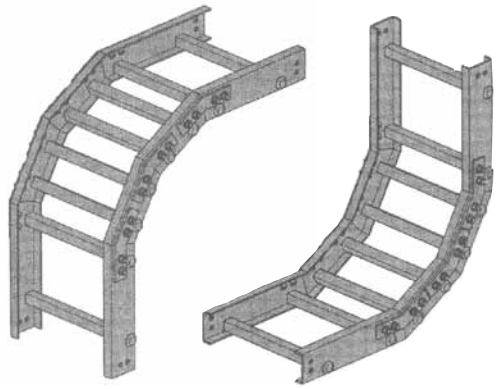
## Non-Metallic Tray

# 6" Vertical Bends

### Catalog Numbering System

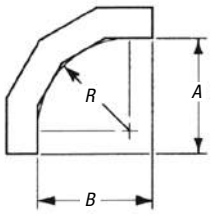
| NM | - | M | 6 | P | 24 | 90 | VI | 12 |
|---|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width | Angle | Type | Radius |

† *For molded fitting, if available, please remove "M" in the cataloguen number. Ex: NM-6P2490VI12*

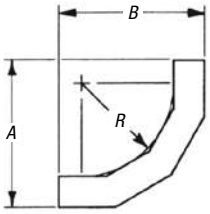


*VO Vertical Outside Bend Sample Mitered*

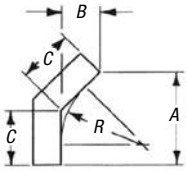
*VI Vertical Inside Bend Sample Mitered*



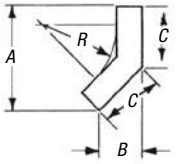

*VO Vertical Outside Bend*




*VI Vertical Inside Bend*




*VO Vertical Outside Bend*




*VI Vertical Inside Bend*

### 90° Vertical Bend

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | VERTICAL OUTSIDE BEND A IN. | VERTICAL OUTSIDE BEND B IN. | VERTICAL INSIDE BEND A IN. | VERTICAL INSIDE BEND B IN. |
|---|---|---|---|---|---|---|
| 12 | 6 | NM-M6-(MATL)-06-90(*)12 | 26 | 26 | 26 13/16 | 26 13/16 |
| | 9 | NM-M6-(MATL)-09-90(*)12 | | | | |
| | 12 | NM-M6-(MATL)-12-90(*)12 | | | | |
| | 18 | NM-M6-(MATL)-18-90(*)12 | | | | |
| | 24 | NM-M6-(MATL)-24-90(*)12 | | | | |
| | 30 | NM-M6-(MATL)-30-90(*)12 | | | | |
| | 36 | NM-M6-(MATL)-36-90(*)12 | | | | |
| 24 | 6 | †NM-M6-(MATL)-06-90(*)24 | 31 1/4 | 31 1/4 | 37 1/4 | 37 1/4 |
| | 9 | †NM-M6-(MATL)-09-90(*)24 | | | | |
| | 12 | †NM-M6-(MATL)-12-90(*)24 | | | | |
| | 18 | †NM-M6-(MATL)-18-90(*)24 | | | | |
| | 24 | †NM-M6-(MATL)-24-90(*)24 | | | | |
| | 30 | †NM-M6-(MATL)-30-90(*)24 | | | | |
| | 36 | †NM-M6-(MATL)-36-90(*)24 | | | | |
| 36 | 6 | NM-M6-(MATL)-06-90(*)36 | 43 1/4 | 43 1/4 | 49 1/4 | 49 1/4 |
| | 9 | NM-M6-(MATL)-09-90(*)36 | | | | |
| | 12 | NM-M6-(MATL)-12-90(*)36 | | | | |
| | 18 | NM-M6-(MATL)-18-90(*)36 | | | | |
| | 24 | NM-M6-(MATL)-24-90(*)36 | | | | |
| | 30 | NM-M6-(MATL)-30-90(*)36 | | | | |
| | 36 | NM-M6-(MATL)-36-90(*)36 | | | | |

### 45° Vertical Bend

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | VERTICAL OUTSIDE BEND A IN. | VERTICAL OUTSIDE BEND B IN. | VERTICAL OUTSIDE BEND C IN. | VERTICAL INSIDE BEND A IN. | VERTICAL INSIDE BEND B IN. | VERTICAL INSIDE BEND C IN. |
|---|---|---|---|---|---|---|---|---|
| 12 | 6 | NM-M6-(MATL)-06-45(*)24 | 20 1/2 | 8 1/2 | 12 | 24 3/4 | 10 1/4 | 14 1/2 |
| | 9 | NM-M6-(MATL)-09-45(*)24 | | | | | | |
| | 12 | NM-M6-(MATL)-12-45(*)24 | | | | | | |
| | 18 | NM-M6-(MATL)-18-45(*)24 | | | | | | |
| | 24 | NM-M6-(MATL)-24-45(*)12 | | | | | | |
| | 30 | NM-M6-(MATL)-30-45(*)12 | | | | | | |
| | 36 | NM-M6-(MATL)-36-45(*)12 | | | | | | |
| 24 | 6 | †NM-M6-(MATL)-06-45(*)24 | 22 1/4 | 9 1/8 | 12 15/16 | 26 5/16 | 10 15/16 | 15 7/16 |
| | 9 | †NM-M6-(MATL)-09-45(*)24 | | | | | | |
| | 12 | †NM-M6-(MATL)-12-45(*)24 | | | | | | |
| | 18 | †NM-M6-(MATL)-18-45(*)24 | | | | | | |
| | 24 | †NM-M6-(MATL)-24-45(*)24 | | | | | | |
| | 30 | †NM-M6-(MATL)-30-45(*)24 | | | | | | |
| | 36 | †NM-M6-(MATL)-36-45(*)24 | | | | | | |
| 36 | 6 | NM-M6-(MATL)-06-45(*)36 | 30 9/16 | 12 11/16 | 17 15/16 | 34 13/16 | 14 7/16 | 20 3/8 |
| | 9 | NM-M6-(MATL)-09-45(*)36 | | | | | | |
| | 12 | NM-M6-(MATL)-12-45(*)36 | | | | | | |
| | 18 | NM-M6-(MATL)-18-45(*)36 | | | | | | |
| | 24 | NM-M6-(MATL)-24-45(*)36 | | | | | | |
| | 30 | NM-M6-(MATL)-30-45(*)36 | | | | | | |
| | 36 | NM-M6-(MATL)-36-45(*)36 | | | | | | |

**Add VI - For vertical inside/VO - For vertical outside*
*One pair of stainless steel SS6 splice plates with SS6 hardware included.*
† *Denotes molded fitting available.*

*Standard rung spacing for fittings is 9". For other types of splice plates, see* ***page B-415–B-417****.*

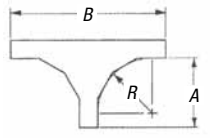
*Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.*

# Non-Metallic Tray

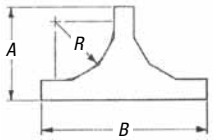
## 3" Vertical Tees

### Catalog Numbering System

| NM | - | M | 3 | P | 24 | VTB | 12 |
|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width | Type | Radius |




*VTD*
*Vertical Tee Down*
*Mitered*




*VTU*
*Vertical Tee Up*
*Mitered*

### 3" Vertical Tees

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | VERTICAL TEE DOWN A IN. | VERTICAL TEE DOWN B IN. | VERTICAL TEE UP A IN. | VERTICAL TEE UP B IN. |
|---|---|---|---|---|---|---|
| 12 | 6 | NM-M3-(MATL)-06-(*)12 | 23 15/16 | 50 7/8 | 26 15/16 | 50 7/8 |
| | 9 | NM-M3-(MATL)-09-(*)12 | | | | |
| | 12 | NM-M3-(MATL)-12-(*)12 | | | | |
| | 18 | NM-M3-(MATL)-18-(*)12 | | | | |
| | 24 | NM-M3-(MATL)-24-(*)12 | | | | |

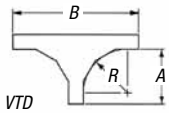
** Add: VTD - For vertical tee down/VTU - For vertical tee up*
*Two pairs of stainless steel SS6 splice plates with SS6 hardware included.*
*Standard rung spacing for fittings is 9". For other types of splice plates,*
*see* ***page B-415–B-417****.*
*Dimensions for reference only, when critical contact factory.*
*Consult factory for availability of molded fittings.*

## 4" Vertical Tees

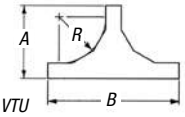
### Catalog Numbering System

| NM | - | M | 4 | P | 24 | VTB | 12 |
|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width | Type | Radius |

*† For molded fitting, if available, please remove "M" in the catalogue number.*
*Ex: NM-4P24VTD12*




*VTD*
*Vertical Tee Down*




*VTU*
*Vertical Tee Up*

### 4" Vertical Tees

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | VERTICAL TEE DOWN A IN. | VERTICAL TEE DOWN B IN. | VERTICAL TEE UP A IN. | VERTICAL TEE UP B IN. |
|---|---|---|---|---|---|---|
| 12 | 6 | †NM-M4-(MATL)-06-(*)12 | 19¼ | 42½ | 23¼ | 42½ |
| | 9 | †NM-M4-(MATL)-09-(*)12 | | | | |
| | 12 | †NM-M4-(MATL)-12-(*)12 | | | | |
| | 18 | †NM-M4-(MATL)-18-(*)12 | | | | |
| | 24 | †NM-M4-(MATL)-24-(*)12 | | | | |
| | 30 | †NM-M4-(MATL)-30-(*)12 | | | | |
| | 36 | †NM-M4-(MATL)-36-(*)12 | | | | |
| 24 | 6 | NM-M4-(MATL)-06-(*)24 | 31¼ | 66½ | 35¼ | 66½ |
| | 9 | NM-M4-(MATL)-09-(*)24 | | | | |
| | 12 | NM-M4-(MATL)-12-(*)24 | | | | |
| | 18 | NM-M4-(MATL)-18-(*)24 | | | | |
| | 24 | NM-M4-(MATL)-24-(*)24 | | | | |
| | 30 | NM-M4-(MATL)-30-(*)24 | | | | |
| | 36 | NM-M4-(MATL)-36-(*)24 | | | | |
| 36 | 6 | NM-M4-(MATL)-06-(*)36 | 37¾ | 79½ | 41¾ | 79½ |
| | 9 | NM-M4-(MATL)-09-(*)36 | | | | |
| | 12 | NM-M4-(MATL)-12-(*)36 | | | | |
| | 18 | NM-M4-(MATL)-18-(*)36 | | | | |
| | 24 | NM-M4-(MATL)-24-(*)36 | | | | |
| | 30 | NM-M4-(MATL)-30-(*)36 | | | | |

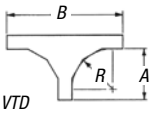
** Add: VTD - For vertical tee down/VTU - For vertical tee up*
*Two pairs of stainless steel SS6 splice plates with SS6 hardware included.*
*Dimensions for reference only, when critical contact factory.*
*Consult factory for availability of molded fittings.*

## 6" Vertical Tees

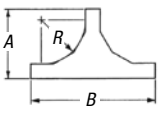
### Catalog Numbering System

| NM | - | M | 6 | P | 24 | VTB | 12 |
|---|---|---|---|---|---|---|---|
| Non-Metallic | | Mitered | Height | Material | Width | Type | Radius |

*† For molded fitting, if available, please remove "M" in the catalogue number.*
*Ex: NM-6P24VTD12*




*VTD*
*Vertical Tee Down*




*VTU*
*Vertical Tee Up*

### 6" Vertical Tees

| -R- BEND RADIUS IN. | TRAY WIDTH IN. | CAT. NO. | VERTICAL TEE DOWN A IN. | VERTICAL TEE DOWN B IN. | VERTICAL TEE UP A IN. | VERTICAL TEE UP B IN. |
|---|---|---|---|---|---|---|
| 12 | 6 | NM-M6-(MATL)-06-(*)12 | 26 | 58 | 32 | 58 |
| | 9 | NM-M6-(MATL)-09-(*)12 | | | | |
| | 12 | NM-M6-(MATL)-12-(*)12 | | | | |
| | 18 | NM-M6-(MATL)-18-(*)12 | | | | |
| | 24 | NM-M6-(MATL)-24-(*)12 | | | | |
| | 30 | NM-M6-(MATL)-30-(*)12 | | | | |
| 24 | 6 | †NM-M6-(MATL)-06-(*)24 | 31¼ | 68½ | 37¼ | 68½ |
| | 9 | †NM-M6-(MATL)-09-(*)24 | | | | |
| | 12 | †NM-M6-(MATL)-12-(*)24 | | | | |
| | 18 | †NM-M6-(MATL)-18-(*)24 | | | | |
| | 24 | †NM-M6-(MATL)-24-(*)24 | | | | |
| | 30 | †NM-M6-(MATL)-30-(*)24 | | | | |
| | 36 | †NM-M6-(MATL)-36-(*)24 | | | | |
| 36 | 6 | NM-M6-(MATL)-06-(*)36 | 43½ | 92½ | 49½ | 92½ |
| | 9 | NM-M6-(MATL)-09-(*)36 | | | | |
| | 12 | NM-M6-(MATL)-12-(*)36 | | | | |
| | 18 | NM-M6-(MATL)-18-(*)36 | | | | |
| | 24 | NM-M6-(MATL)-24-(*)36 | | | | |
| | 30 | NM-M6-(MATL)-30-(*)36 | | | | |
| | 36 | NM-M6-(MATL)-36-(*)36 | | | | |

** Add: VTD - For vertical tee down / VTU - For vertical tee up*
*Two pairs of stainless steel SS6 splice plates with SS6 hardware included.*
*† Denotes molded fitting available.*
*Dimensions for reference only, when critical contact factory.*
*Consult factory for availability of molded fittings.*



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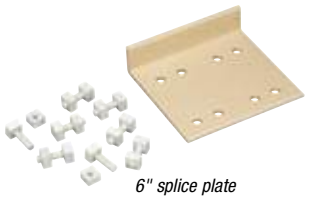
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800.816.7809
Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

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## Non-Metallic Tray

# Accessories



*6" splice plate*
*comes with non-metallic hardware*



*6" splice plate*
*comes with metallic hardware*



*Stainless steel 4" splice plate*
*comes with metallic hardware*

**NM - X SS 4 00 4 _ SS6**

**Cable Tray System**
Non-Metallic

**Accessory Number**

**Material**
**SS** = Stainless Steel
**FRP** = Fiberglass
**P** = Polyester
**V** = Vinylester

**# of Holes in Plate**
**4**
**8**

**Type/Angle**
**00** = Strait
**01** = Slotted Straight
**02** = Vertical Adjustable
**03** = Horizontal Adjustable
**04** = Step Down
**05** = Tray to Box
**30** = 30° Angle
**45** = 45° Angle
**90** = 90° Angle

**Tray Series**
**3"**
**4"**
**6"**

**Type**
**V** = Vertical
**H** = Horizontal

**Hardware**
**SS6** = 316 Stainless Steel
**M0** = Monel
**SB** = Silicon Bronze
**FR** = Fiberglass

*Example: NM-XSS4004SS6, Stainless steel 316, 4 holes supplied with stainless steel 316 hardware for a 4" deep straight section.*

***Note**: Splice plates shown on **pages B-415–B-417** represent splices for 6" side rail height. Number of holes may vary with other side rail heights.*

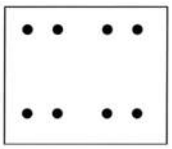
## Standard Splice Plates

**Quantity required supplied with each tray section.**

Order only pairs of splice plates needed for field modifications.

SS6 hardware supplied as standard — use SS6 suffix.

Other hardware available, specify by hardware suffix. Hardware other than SS6 is considered special.



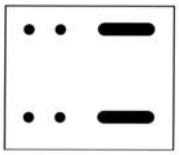
| MATERIAL | HEIGHT | CAT. NO. |
|---|---|---|
| Stainless Steel | 6" | NM-XSS-8006* |
| | 4" | NM-XSS-4004* |
| | 3" | NM-XSS-4003* |

** Hardware suffix needed to complete part number*

## Expansion Splice Plates

These plates allow for up to 1" expansion or contraction of tray system.

For correct gap setting procedure, see ***page B-444***.



| MATERIAL | SIDE RAIL HEIGHT | CAT. NO. |
|---|---|---|
| Stainless Steel 316 (16 gauge) | 6" | NM-XSS-8016* |
| | 4" | NM-XSS-4014* |
| | 3" | NM-XSS-4013* |

** Hardware suffix needed to complete part number*

*All splice plate hardware is ⅜".*

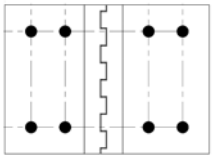
## Non-Metallic Tray

# Accessories

### Horizontal Adjustable Splice Plates

These plates provide for changes in the horizontal direction that do not conform to standard fittings.

Furnished in pairs.



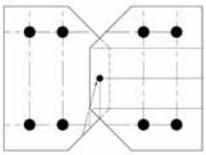
| MATERIAL | SIDE RAIL HEIGHT | CAT. NO. |
|---|---|---|
| Stainless Steel 316 (16 Guage) | 6" | NM-XSS-8036* |
| | 4" | NM-XSS-4034* |
| | 3" | NM-XSS-4033* |

** Hardware suffix needed to complete part number*

### Vertical Adjustable Splice Plates

These plates provide for changes in elevation that do not conform to standard vertical fittings.

Furnished in pairs.



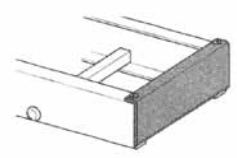
| MATERIAL | SIDE RAIL HEIGHT | CAT. NO. |
|---|---|---|
| Stainless Steel 316 (16 Guage) | 6" | NM-XSS-8026* |
| | 4" | NM-XSS-4024* |
| | 3" | NM-XSS-4023* |

** Hardware suffix needed to complete part number*

### Blind End Plate

This plate forms a closure for any tray that dead ends.

Furnished as one plate.



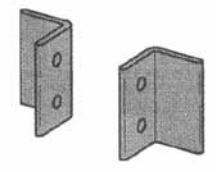
| MATERIAL | HEIGHT | CAT. NO. |
|---|---|---|
| Stainless Steel | 6" | NM-XBE*1086W** |
| | 4" | NM-XBE*1084W** |
| | 3" | NM-XBE*1083W** |

** Material suffix: P=Polyester, V= Vinylester, S=Stainless Steel*
*** Harware suffix needed to complete part number*
*W = tray width*

### Tray To Box Splice Plates

These plates are used to attach the end of a tray run to a distribution box or control center.

Furnished in pairs.



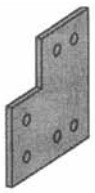
| MATERIAL | HEIGHT | CAT. NO. |
|---|---|---|
| Stainless Steel | 6" | NM-XSS8056* |
| | 4" | NM-XSS4054* |
| | 3" | NM-XSS4053* |

** Hardware suffix needed to complete part number*

### Step Down Plates

These splice plates provide for changes in side rail heights.

Furnished in pairs.



| MATERIAL | HEIGHT | CAT. NO. |
|---|---|---|
| Stainless Steel 316 (16 Guage) | 6" to 3" | NM-XSS-8063* |
| | 6" to 4" | NM-XSS-8064* |
| | 4" to 3" | NM-XSS-4043* |

** Hardware suffix needed to complete part number*

*All splice plate hardware is ⅜". Splice plates shown represent splices for 6" side rail height. Number of holes may vary with other side rail heights.*



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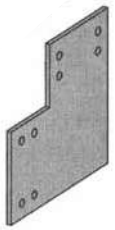
## Non-Metallic Tray

# Accessories

### Vertical Splice Plates

#### 90°

These splice plates provide for changes in elevation.
Furnished in pairs.

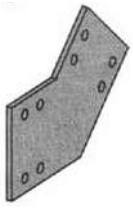


| MATERIAL | SIDE RAIL HEIGHT | CAT. NO. |
|---|---|---|
| Stainless Steel 316 (16 Guage) | 6" | NM-XSS-8906V* |
| | 4" | NM-XSS-4904V* |
| | 3" | NM-XSS-4903V* |

** Hardware suffix needed to complete part number*

#### 45°

These splice plates provide for changes in elevation.
Furnished in pairs.

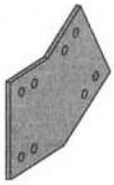


| MATERIAL | SIDE RAIL HEIGHT | CAT. NO. |
|---|---|---|
| Stainless Steel 316 (16 Guage) | 6" | NM-XSS-8456V* |
| | 4" | NM-XSS-4454V* |
| | 3" | NM-XSS-4453V* |

** Hardware suffix needed to complete part number*

#### 30°

These splice plates provide for changes in elevation.
Furnished in pairs.



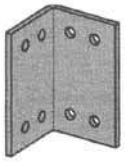
| MATERIAL | SIDE RAIL HEIGHT | CAT. NO. |
|---|---|---|
| Stainless Steel 316 (16 Guage) | 6" | NM-XSS-8306V* |
| | 4" | NM-XSS-4304V* |
| | 3" | NM-XSS-4303V* |

** Hardware suffix needed to complete part number*

### Horizontal Splice Plates

#### 90°

These splice plates provide for changes in the horizontal direction.
Furnished in pairs.



| MATERIAL | SIDE RAIL HEIGHT | CAT. NO. |
|---|---|---|
| Stainless Steel 316 (16 Guage) | 6" | NM-XSS-8906H* |
| | 4" | NM-XSS-4904H* |
| | 3" | NM-XSS-4903H* |

** Hardware suffix needed to complete part number*

#### 45°

These splice plates provide for changes in the horizontal direction.
Furnished in pairs.

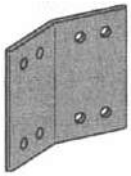


| MATERIAL | SIDE RAIL HEIGHT | CAT. NO. |
|---|---|---|
| Stainless Steel 316 (16 Guage) | 6" | NM-XSS-8456H* |
| | 4" | NM-XSS-4454H* |
| | 3" | NM-XSS-4453H* |

** Hardware suffix needed to complete part number*

#### 30°

These splice plates provide for changes in the horizontal direction.
Furnished in pairs.



| MATERIAL | SIDE RAIL HEIGHT | CAT. NO. |
|---|---|---|
| Stainless Steel 316 (16 Guage) | 6" | NM-XSS-8306H* |
| | 4" | NM-XSS-4304H* |
| | 3" | NM-XSS-4303H* |

** Hardware suffix needed to complete part number*

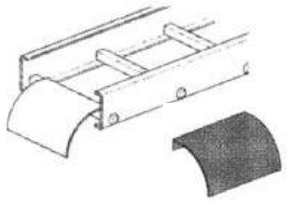
*All splice plate hardware is ⅜". Splice plates shown represent splices for 6" side rail height. Number of holes may vary with other side rail heights.*

## Non-Metallic Tray

# Accessories

### Ladder Drop-out

Specially-designed Ladder Drop-Outs provide a rounded surface with adequate radius to protect cable as it exits from the tray, preventingdamage to insulation.

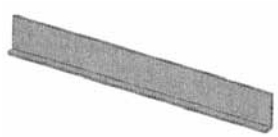


| MATERIAL | HEIGHT | CAT. NO. |
|---|---|---|
| Polyester Resin | 6" to 36" | NM-XF-1104-W |

*Supplied with a 4" radius.*
*W = tray width*

### Barriers

Furnished with #10 x ¾ self-tapping stainless steel screws.



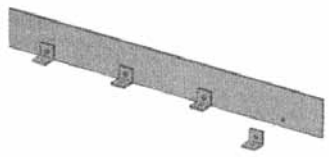
| MATERIAL | SIDE RAIL HEIGHT | CAT. NO. |
|---|---|---|
| Polyester Resin | 6" | NM-BS06P-120 |
| | 4" | NM-BS04P-120 |
| | 3" | NM-BS03P-120 |
| Vinylester Resin | 6" | NM-BS06V-120 |
| | 4" | NM-BS04V-120 |
| | 3" | NM-BS03V-120 |

### Flexible Horizontal Barrier Kit

One Kit allows up to 38" radius position of the barrier. For larger than 38" radius barrier position, two kits are required.

**Kit Contents**

- (1) 72" Straight Barrier
- (4) XF-9002 Barrier Strip Clips
- (8) Thermoplastic Drive Rivets
- (4) #10 x ¾" Stainless Steel Self-Tapping Screws
- Assembly required — directions included

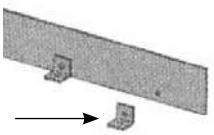


| MATERIAL | SIDE RAIL HEIGHT | LOADING DEPTH 'H' | CAT. NO. |
|---|---|---|---|
| Polyester Resin | 6" | 4 11/16 | NM-BS06P-90HBFL |
| | 4" | 2 11/16 | NM-BS04P-90HBFL |
| | 3" | 1¾ | NM-BS03P-90HBFL |
| Vinylester Resin | 6" | 4 11/16 | NM-BS06V-90HBFL |
| | 4" | 2 11/16 | NM-BS04V-90HBFL |
| | 3" | 1¾ | NM-BS03V-90HBFL |

### Barrier Mounting Angle Clips with Fasteners

**1 pack contains**

- (4) angle clips and fasteners
- (2) thermoplastic drive rivets
- (1) #10 x ¾" stainless steel self-tapping screw



| MATERIAL | CAT. NO. |
|---|---|
| Polyester Resin | NM-PK-BAC |



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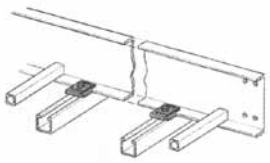
## Non-Metallic Tray

# Accessories

### Clamp/Guide

Combination hold-down clamp and guide.
Designed for ⅜" hardware — not included.

Furnished in pairs.



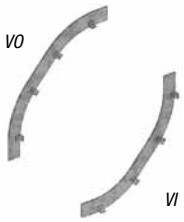
| MATERIAL | CAT. NO. |
|---|---|
| Polyester Resin | NM-XFP-1208 |

### Vertical Barriers

Barriers for vertical fitting.

Please add angle (X) and radius (†) to catalogue number.

Furnished with #10 x ¾" self-tapping stainless steel screws.




| MATERIAL | SIDE RAIL HEIGHT | CAT. NO. |
|---|---|---|
| Polyester Resin | 6" | NM-BS06P(X)VI/VO(†) |
| | 4" | NM-BS06P(X)VI/VO(†) |
| | 3" | NM-BS06P(X)VI/VO(†) |
| Vinylester Resin | 6" | NM-BS06V(X)VI/VO(†) |
| | 4" | NM-BS06V(X)VI/VO(†) |
| | 3" | NM-BS06V(X)VI/VO(†) |

*VI = Inside vertical*
*VO = Outside vertical*

### Spray Sealant

Spray acrylic to reseal fiberglass after field modifications.




| DESCRIPTION | CAT. NO. |
|---|---|
| 12 fl. oz. can | NM-CLEAR-1215 |

### Resin Seal Kit

To reseal fiberglass after field modifications.
Vinylester Resin

**Kit Contents**

- Resin
- Catalyst
- Stir stick and applicator




| DESCRIPTION | CAT. NO. |
|---|---|
| ½ pint | NM-RSK-05 |
| 1 pint | NM-RSK-10 |

# Non-Metallic Tray

## Covers For Straight Sections



Material thickness: ⅛"

Standard cover length: 120" (10')

Standard mounting hardware: (10 each) #10 x ½" stainless, self-tapping screws provided with each section

**Covers Selection Guide**

**NM - FC P 12 120**

| Non-Metallic | Cover Type | Material | Tray Width | Length |
|---|---|---|---|---|
| | **FC** = Flat<br>**PC** = Peaked | **P** = Polyester<br>**V** = Vinylester | **6"–36"** | **120" (10 ft.)** |

***Note**: Peaked covers available for straight sections only.*

## Covers For Fittings

Material thickness: ⅛"

Standard mounting hardware: (10 each) #10 x ½" stainless, self-tapping screws provided with each section

**Covers Selection Guide**

**NM - FC P 12 HB 90 24**

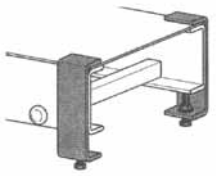
| Non-Metallic | Cover Type | Material | Width | Fitting Designation | Angle | Radius |
|---|---|---|---|---|---|---|
| | **FC** = Flat | **P** = Polyester<br>**V** = Vinylester | **6"–36"** | **HB**<br>**IV/OV**<br>**HT**<br>**HX** | **30**<br>**45**<br>**60**<br>**90** | **12**<br>**24**<br>**36** |

***Note**: Peaked covers not available.*
*Other fitting covers are available. Please consult your sales office.*

## Standard Cover Clamp

Recommended for indoor applications. Available in both Polyester and Vinylester Resin.

Cover clamp available for flat covers only.

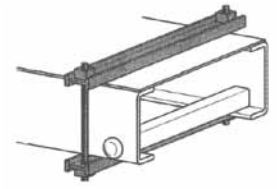


| MATERIAL | SIDE RAIL HEIGHT | CAT. NO. |
|---|---|---|
| Polyester Resin | 6" | NM-XCC-P-9016 |
| | 4" | NM-XCC-P-9014 |
| | 3" | NM-XCC-P-9013 |
| Vinylester Resin | 6" | NM-XCC-V-9016 |
| | 4" | NM-XCC-V-9014 |
| | 3" | NM-XCC-V-9013 |

## Heavy-Duty Cover Clamp

Recommended for outdoor service.

Heavy-duty cover clamp available for flat covers only. Available in both Polyester and Vinylester Resin.



| MATERIAL | SIDE RAIL HEIGHT | CAT. NO. |
|---|---|---|
| Polyester Resin | 6" | NM-XWC-P-W*-9064 |
| | 4" | NM-XWC-P-W*-9044 |
| | 3" | NM-XWC-P-W*-9034 |
| Vinylester Resin | 6" | NM-XWC-C-W*-9064 |
| | 4" | NM-XWC-C-W*-9044 |
| | 3" | NM-XWC-C-W*-9034 |

** W = tray width*

## Thermoplastic Drive Rivet

Shipped in packages of 25 pieces.



| MATERIAL | CAT. NO. |
|---|---|
| Thermoplastic | TPDR |

*Raised cover clamps available. Please consult your sales offices.*



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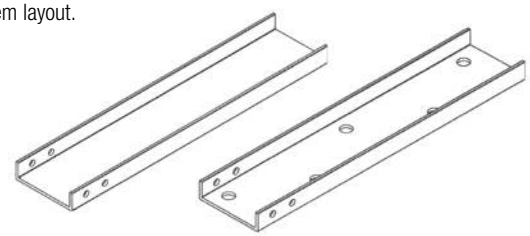
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## Non-Metallic Tray

# Fiberglass Cable Channel Straight Sections

Thomas & Betts offers non-metallic cable channel in solid or ventilated straight sections. Horizontal and vertical solid bottom fittings are also available to complete your system layout.





### Straight Section Catalog Selector

**NM - FCC V P 04 120**

| Non-Metallic | Series | Bottom Type | Material | Width | Length |
|---|---|---|---|---|---|
| | Fiberglass Cable Channel | **V** = Ventilated<br>**N** = Nonventilated | **P** = Polyester Resin<br>**V** = Vinylester Resin | **02 =** 2"<br>**03 =** 3"<br>**04 =** 4"<br>**06 =** 6"<br>**08 =** 8" | **120 =** 120" (10 ft.)<br>**240 =** 240" (20 ft.) |

*Example: NM-FCCVP04-120 for Polyester Resin Cable Channel, 4" wide ventilated bottom, 120" (10 ft.) length*

### Specifications

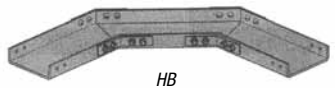
| VENTILATED | | | | | NONVENTILATED | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WIDTH IN. | HEIGHT IN. | LENGTH FT. | POLYESTER | VINYLESTER | WIDTH IN. | HEIGHT IN. | LENGTH FT. | POLYESTER | VINYLESTER |
| 2 | 1 | 10 | NM-FCCVP-02-120 | NM-FCCVV-02-120 | 2 | 1 | 10 | NM-FCCNP-02-120 | NM-FCCNV-02-120 |
| | 1 | 20 | NM-FCCVP-02-240 | NM-FCCVV-02-24 | | 1 | 20 | NM-FCCNP-02-240 | NM-FCCNV-02-240 |
| 3 | 1 | 10 | NM-FCCVP-03-120 | NM-FCCVV-03-120 | 3 | 1 | 10 | NM-FCCNP-03-120 | NM-FCCNV-03-120 |
| | 1 | 20 | NM-FCCVP-03-240 | NM-FCCVV-03-240 | | 1 | 20 | NM-FCCNP-03-240 | NM-FCCNV-03-240 |
| 4 | 1⅛ | 10 | NM-FCCVP-04-120 | NM-FCCVV-04-120 | 4 | 1⅛ | 10 | NM-FCCNP-04-120 | NM-FCCNV-04-120 |
| | 1⅛ | 20 | NM-FCCVP-04-240 | NM-FCCVV-04-240 | | 1⅛ | 20 | NM-FCCNP-04-240 | NM-FCCNV-04-240 |
| 6 | 1⅝ | 10 | NM-FCCVP-06-120 | NM-FCCVV-06-120 | 6 | 1⅝ | 10 | NM-FCCNP-06-120 | NM-FCCNV-06-120 |
| | 1⅝ | 20 | NM-FCCVP-06-240 | NM-FCCVV-06-240 | | 1⅝ | 20 | NM-FCCNP-06-240 | NM-FCCNV-06-240 |
| 8 | 2³⁄₁₆ | 10 | NM-FCCVP-08-120 | NM-FCCVV-08-120 | 8 | 2³⁄₁₆ | 10 | NM-FCCNP-08-120 | NM-FCCNV-09-120 |
| | 2³⁄₁₆ | 20 | NM-FCCVP-08-240 | NM-FCCVV-08-240 | | 2³⁄₁₆ | 20 | NM-FCCNP-08-240 | NM-FCCNV-08-240 |

*Splice plates NOT included. See following page for types of splice plates available.*
*Covers are available. Please consult your sales office.*

## Non-Metallic Tray

# Cable Channel Fittings

### Horizontal Bends

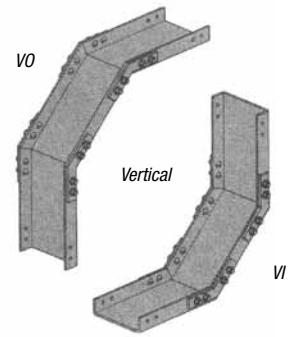


HB
Horizontal
Bend

| ANGLE | WIDTH | CAT. NO. |
|---|---|---|
| 90 | 3" | NM-FCCNP-03-90HB 12 |
| | 4" | NM-FCCNP-04-90HB 12 |
| | 6" | NM-FCCNP-06-90HB 12 |
| | 8" | NM-FCCNP-08-90HB 12 |
| 45 | 3" | NM-FCCNP-03-45HB 12 |
| | 4" | NM-FCCNP-04-45HB 12 |
| | 6" | NM-FCCNP-06-45HB 12 |
| | 8" | NM-FCCNP-08-45HB 12 |

*One pair of splice plates with SS6 hardware included.*
*For vinylester resin, use "V" instead of "P" in catalog number.*
*Example: FCCNV-04-90HB12*

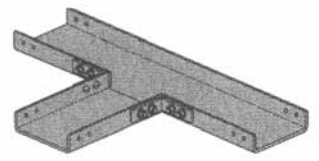
### Vertical Bends




| ANGLE | WIDTH | CAT. NO. |
|---|---|---|
| 90 | 3" | NM-FCCNP-03-90V* 12 |
| | 4" | NM-FCCNP-04-90V* 12 |
| | 6" | NM-FCCNP-06-90V* 12 |
| | 8" | NM-FCCNP-08-90V* 12 |
| 45 | 3" | NM-FCCNP-03-45V* 12 |
| | 4" | NM-FCCNP-04-45V* 12 |
| | 6" | NM-FCCNP-06-45V* 12 |
| | 8" | NM-FCCNP-08-45V* 12 |

*One pair of splice plates with SS6 hardware included.*
*For vinylester resin, use "V" instead of "P" in catalog number.*
*Example: FCCNV-04-90VI12*

### Horizontal Tees

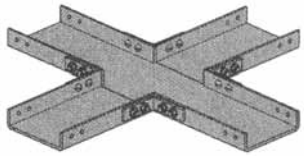


HT

| WIDTH IN. | CAT. NO. |
|---|---|
| 3 | NM-FCCNP-03-HT12 |
| 4 | NM-FCCNP-04-HT12 |
| 6 | NM-FCCNP-06-HT12 |
| 8 | NM-FCCNP-08-HT12 |

*Two pairs of splice plates included.*
*For vinylester resin, use "V" instead of "P" in catalog number.*
*Example: FCCNV-04-HT12*

### Horizontal Crosses



HX

| WIDTH IN. | CAT. NO. |
|---|---|
| 3 | NM-FCCNP-03-HX12 |
| 4 | NM-FCCNP-04-HX12 |
| 6 | NM-FCCNP-06-HX12 |
| 8 | NM-FCCNP-08-HX12 |

*Three pairs of splice plates included.*
*For vinylester resin, use "V" instead of "P" in catalog number.*
*Example: FCCNV-04-HX12*

*Covers available. Please contact your sales office.*



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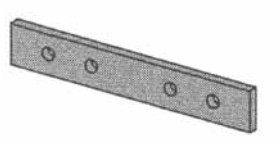
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## Non-Metallic Tray

# Cable Channel Splice Plates

*Standard hardware is ¼" Stainless Steel 316.*

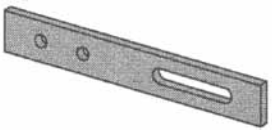
### Standard Splice Plates



| MATERIAL | CAT. NO. |
|---|---|
| Stainless Steel | NM-XSS-1001-SS6 |
| Polyester Resin | NM-XFP-1001-SS6 |
| Vinylester Resin | NM-XFV-1001-SS6 |

*Supplied in pairs*

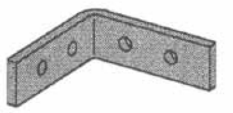
### Expansion Splice Plates



| MATERIAL | CAT. NO. |
|---|---|
| Stainless Steel | NM-XSS-1011-SS6 |
| Polyester Resin | NM-XFP-1011-SS6 |
| Vinylester Resin | NM-XFV-1011-SS6 |

*Supplied in pairs*

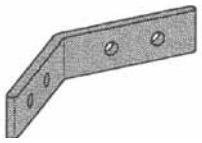
### Horizontal 90° Splice Plates



| MATERIAL | CAT. NO. |
|---|---|
| Stainless Steel | NM-XSS-190IH-SS6 |
| Polyester Resin | NM-XFP-190IH-SS6 |
| Vinylester Resin | NM-XFV-190IH-SS6 |

*Supplied in pairs*

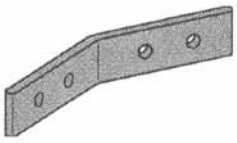
### Horizontal 45° Splice Plates



| MATERIAL | CAT. NO. |
|---|---|
| Stainless Steel | NM-XSS-145IH-SS6 |
| Polyester Resin | NM-XFP-145IH-SS6 |
| Vinylester Resin | NM-XFV-145IH-SS6 |

*Supplied in pairs*

### Horizontal 30° Splice Plates

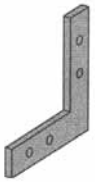


| MATERIAL | CAT. NO. |
|---|---|
| Stainless Steel | NM-XSS-130IH-SS6 |
| Polyester Resin | NM-XFP-130IH-SS6 |
| Vinylester Resin | NM-XFV-130IH-SS6 |

*Supplied in pairs*

# Cable Channel Splice Plates

### Vertical 90° Splice Plates



| MATERIAL | CAT. NO. |
|---|---|
| Stainless Steel | NM-XSS-190IV-SS6 |
| Polyester Resin | NM-XFP-190IV-SS6 |
| Vinylester Resin | NM-XFV-190IV-SS6 |

*Supplied in pairs*

### Vertical 45° Splice Plates



| MATERIAL | CAT. NO. |
|---|---|
| Stainless Steel | NM-XSS-145IV-SS6 |
| Polyester Resin | NM-XFP-145IV-SS6 |
| Vinylester Resin | NM-XFV-145IV-SS6 |

*Supplied in pairs*

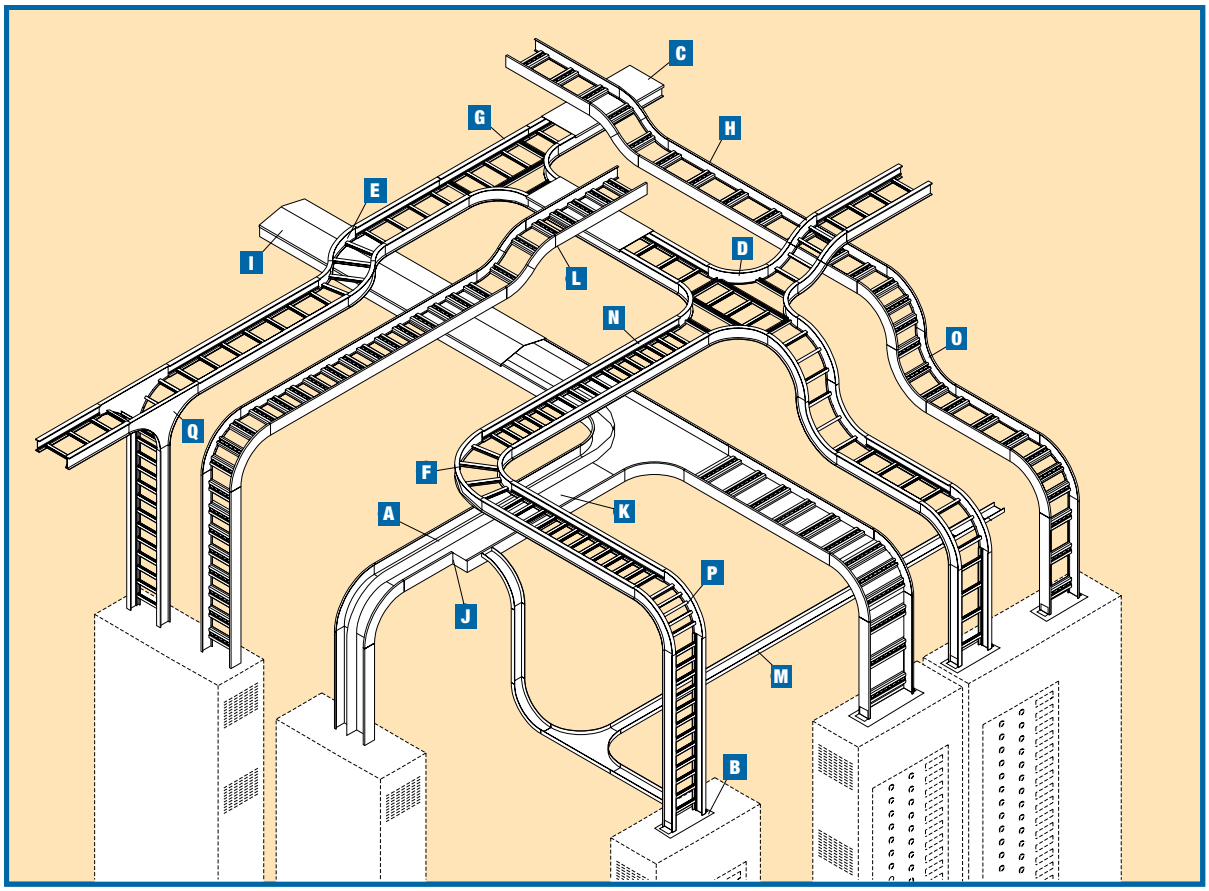
### Vertical 30° Splice Plates



| MATERIAL | CAT. NO. |
|---|---|
| Stainless Steel | NM-XSS-130IV-SS6 |
| Polyester Resin | NM-XFP-130IV-SS6 |
| Vinylester Resin | NM-XFV-130IV-SS6 |

*Supplied in pairs*

# Sample Plant Layout




## Application

**Commercial**

- Schools
- Hospitals
- Office Buildings
- Airports
- Casinos
- Stadiums

**Industrial**

- Petro-Chemical Plants
- Automotive Plants
- Paper Plants
- Food Processing
- Power Plants
- Refineries
- Manufacturing
- Mining

## Key

**A** Barrier Strip
**B** Box Connector
**C** Flat Cover
**D** Horizontal Cross
**E** Horizontal 45°
**F** Horizontal 90°
**G** Horizontal Tee
**H** Ladder Tray
**I** Peaked Cover
**J** Right Reducer
**K** Solid Tray
**L** Splice Connector
**M** Solid Channel Tray
**N** Ventilated Tray
**O** Vertical 90° Inside
**P** Vertical 90° Outside
**Q** Vertical Tee



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# Glossary of Terms

**Accessories:**

Devices which are used to supplement the function of straight sections and fittings, and include such items as dropouts, covers, conduit adapters, hold-down devices and dividers.

**Cable Tray Connector:**

A device that joins cable tray straight sections or fittings, or both. The basic types of connectors are:

1. Rigid
2. Expansion
3. Adjustable
4. Reducer

**Cable Tray Fitting:**

A device that is used to change the direction, elevation or size of a cable tray system.

**Cable Support:**

A device that provides adequate means for supporting cable tray sections or fittings, or both. The basic types of cable tray supports are:

1. Cantilever bracket
2. Trapeze
3. Individual and suspension

**Channel Cable Tray**

A prefabricated metal structure consisting of a one-piece ventilated bottom or solid bottom channel section, or both, not exceeding six inches in width.

**Ladder Cable Tray**

A prefabricated metal structure consisting of two longitudinal side rails connected by individual transverse members.

**Solid Bottom Cable Tray:**

A prefabricated metal structure consisting of a bottom with no openings within integral or separate longitudinal side rails.

**One Piece/Unit Cable Tray:**

A prefabricated metal structure consisting of a one-piece solid or ventilated bottom.

**Horizontal Cross:**

A cable tray fitting that is suitable for joining cable trays in four directions at 90-degree intervals in the same plane.

**Horizontal Bend:**

A cable tray fitting that changes the direction in the same plane.



**Horizontal Tee:**

A cable tray fitting that is suitable for joining cable trays in three directions at 90-degree intervals in the same plane.

**Metallic Cable Tray System:**

An assembly of cable tray straight section, fitting, and accessories that forms a rigid structural system to support cables.

**Reducer:**

A cable tray fitting that is suitable for joining cable trays of different widths in the same plane. A straight reducer has two symmetrical offset sides. A right-hand reducer, when viewed from the large end, has a straight side on the right. A left-hand reducer, when viewed from the large end, has a straight side on the left.

**Straight Section:**

A length of cable tray that has no change in direction or size.

**Ventilated Bottom:**

A cable tray bottom having openings sufficient for the passage of air and utilizing 75 percent or less of the plan area of the surface to support cables.

**Vertical Bend:**

A cable tray fitting that changes direction to a different plane. An inside vertical elbow changes direction upward from the horizontal plane. An outside vertical elbow changes direction downward from the horizontal plane.

# Technical Information

## Cable Tray Selection Process

T&B has developed a seven-step process to help you select a cable tray system:

1. Select material and finish
2. Select the tray load class
3. Select the tray type
4. Select the tray size
5. Select the fittings
6. Consider deflection
7. Electrical grounding capacity

**Each step is described in detail below. For many applications, however, you may also have to take the following into account:**

- Weight of the installation, which affects the cost of the support structure and the ease of installation.
- Corrosion resistance of the material is one of the most important selection criteria. Cable tray materials may not respond the same way in different environments. Chemicals or combinations of chemicals have corrosion effects on some materials that can be compounded by temperature or even the speed at which the corrosive elements contact the cable tray. For example, some grades of stainless steel may be resistant to salt water at high flow rates (perfect for heat exchangers) while exhibiting some corrosion pitting in standing salt water. For more information, see **pages B-431–B-432**.
- Galvanic effect can cause corrosion even if the cable tray material is resistant to its chemical environment. Dissimilar metals in contact (e.g., aluminum tray on steel supports or bare copper bonding conductor in aluminum tray) in the presence of an electrolyte are susceptible to galvanic effect. If there is a hazard of galvanic corrosion, it may be possible to isolate the tray system from other metals instead of using a more expensive type of tray that would resist corrosion in a given application.
- Melting point and flammability rating are primarily concerns for non-metallic tray. Local building codes may restrict the use of a given product if certain performance levels are not met. Check with the appropriate inspection authorities before specifying the product.
- Relative cost varies dramatically, including material costs that float with the commodity index. For example, stainless steel prices may vary significantly according to daily changes in the market.
- Thermal expansion must also be taken into account on a long cable run, especially in areas where temperature variation is extreme. Expansion connectors may be required if the temperature differential is 25° F or greater. See **page B-433** for expansion plate spacing and gap settings. Two bonding jumpers are required for every pair of splice plates for grounding continuity.

## Selection Steps:

### 1. Select Material and Finish

The most suitable material and finish for your application will depend on cost, the potential for corrosion and electrical considerations. T&B offers cable tray systems fabricated from corrosion-resistant steel, stainless steel and aluminum alloys along with corrosion-resistant finishes, including zinc, PVC and epoxy. Special paint is also available. For more information, see the "Material Descriptions" section on **page B-429**.

### 2. Select the Tray Class/Load Capacity (Loading)

The standard classes of cable trays, as related to their maximum design loads and to the associated design support spacing based on a simple beam span requirement, shall be designated in accordance with the Load/Span table (right). Please note the load ratings are those most commonly used. Other load ratings are acceptable.

Costs vary between different load classes. Since labor and coupling costs are similar for a given length of tray, the heavier classes are more cost-effective on a load length basis. The designer should therefore specify the lightest class of tray compatible with the weight requirements of the cable tray.

**Cable Loads:** The cable load is the total weight, expressed in (kg/m), of all the cables that will be placed in the cable tray.

**Snow Loads:** The additional design load from snowfall should be determined using the building codes which apply for each installation.

**Ice Loads:** The additional load design due to the ice is determined by the following formula:

$Wi = W \times Ti \times Di / 144$

**Where:** Wi = ice load (lb./linear foot)
W = width of the tray (inches)
Ti = maximum ice thickness (inches)
Di = 57 lb./ft.$^3$ ice density

Ice thickness will vary depending on installation location. A value of ½ inch can be used as a conservative standard.

**Wind Loads:** The additional loading to be considered is the effect of the impact pressure normal to the side rail.This loading is determined by the following formula:

$Wp = 0.00256 \times V^2 \times H/12$

**Where:** Wp = loading due to the wind (lb./linear foot)
V = wind velocity (mph)
H = Height of the side rail (inches)

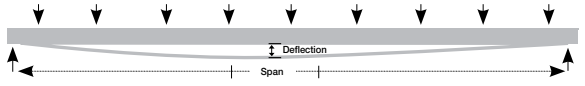
**Concentrated Loads:** A concentrated static load is not included in the table below. Some user applications may require that a given concentrated static load be imposed over and above the working load.

Such a concentrated static load represents a static weight applied on the centerline of the tray at midspan. When so specified, the concentrated static load may be converted to an equivalent uniform load (We) in kilograms/meter (pounds/linear foot), using the following formula, and added to the static weight of cable in the tray:

$$We = \frac{2 \times \text{concentrated static load, kg (lb.)}}{\text{Span length, m (ft.)}}$$

**Load/Span Class Designation**

| KG/M | LB./FT. | SPAN, M (FT.) 2.4 (8) | 3.0 (10) | 3.7 (12) | 4.9 (16) | 6.0 (20) |
|---|---|---|---|---|---|---|
| 37 | 25 | — | A | — | — | — |
| 67 | 45 | — | — | — | — | D |
| 74 | 50 | 8A | – | 12A | 16A | 20A |
| 97 | 65 | — | C | — | — | — |
| 112 | 75 | 8B | – | 12B | 16B | E or 20B |
| 149 | 100 | 8C | – | 12C | 16C | 20C |
| 179 | 120 | — | D | — | — | — |
| 299 | 200 | — | E | — | — | — |




***Note:*** *8A/B/C, 12A/B/C, 16A/B/C and 20A/B/C are the traditional NEMA designations. A, C, D and E are the conventional CSA designations.*



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# Technical Information

### 3. Select the Tray Type

Cable tray is available with three styles of bottom:

**Ladder Cable Tray** is a prefabricated structure consisting of two longitudinal siderails connected by individual transverse members.

**Ventilated Cable Tray** is a prefabricated structure consisting of a ventilated bottom within integral or separate longitudinal siderails, with no openings exceeding 4 in. in a longitudinal direction.

**Solid Bottom Cable Tray** is a prefabricated structure without openings in the bottom.

Ladder tray is most often used because of its cost-effectiveness. The designer has a choice of four nominal rung spacings: 6, 9, 12 and 18 inches. The greatest rung spacing compatible with an adequate cable-bearing surface area should be selected. Heavy power cables often require greater cable bearing area due to the possibility of creep in the jacket material of the cable. If this is a concern, consult the cable manufacturer. This condition may require the use of ventilated tray, which also offers additional mechanical protection for the cables.

Local building codes may require totally enclosed cable tray systems under certain conditions. The designer should verify these before specifying the type of tray to be used.

### 4. Select the Tray Size

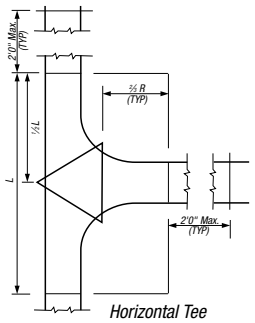
The width or height of a cable tray is a function of the number, size, spacing and weight of the cables in the tray. Available nominal widths are 6, 9, 12, 18, 24, 30 and 36 inches.

When specifying width, it is important to remember that the load rating does not change as the width increases. Even with six times the volume, a 36-in.-wide tray cannot hold any more weight than a 6-in.-wide tray. If the load rating of the tray permits, cable can be piled deeper in the tray. Most tray classes are available in a nominal 3⅝, 4, 5, 6 and 7 inches (8-inch height also available as a special — see Appendix). Cable ties or other spacing devices may be used to maintain the required air space between cables.

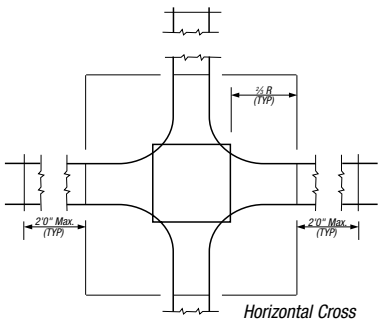
### 5. Select the Fittings

Fittings are used to change the size or direction of the cable tray. The most important decision to be made in fitting design concerns radius. The radius of the bend, whether horizontal or vertical, can be 12, 24, 36 or 48 in., or even greater on a custom basis. The selection requires a compromise with the considerations being available space, minimum bending radius of cables, ease of cable pulling and cost. The typical radius is 24 in. Fittings are also available for 30°, 45°, 60° and 90° angles. When a standard angle will not work, field fittings or adjustable elbows can be used. It may be necessary to add supports to the tray at these points. Refer to NEMA VE2 Installation Guidelines for suggested support locations. Note that fittings are not subject to NEMA/CSA load ratings.

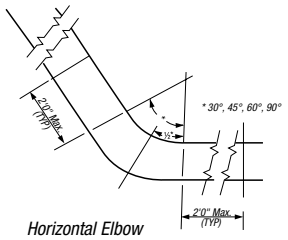
## Support Locations for Fittings



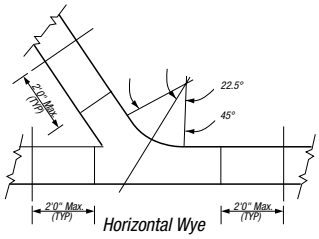
Horizontal Tee



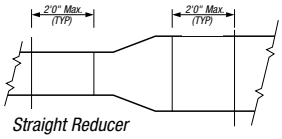
Horizontal Cross



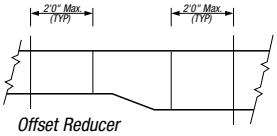
Horizontal Elbow



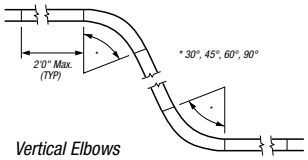
Horizontal Wye



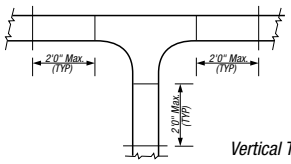
Straight Reducer



Offset Reducer



Vertical Elbows



Vertical Tee

# Technical Information

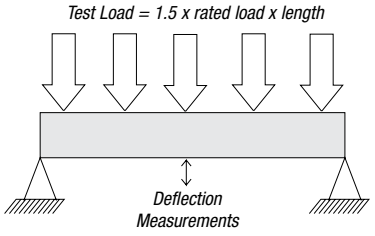
### 6. Consider Deflection

Deflection of the cable tray affects the appearance of an installation, but it is not a structural issue. In the case of non-metallic cable tray, deflection may be affected by elevated temperatures.

The NEMA/CSA load test is a simple beam, uniformly distributed load test (see illustration, **right**). This type of test was initially selected because:

- It was easiest to test.
- It represents the worst-case beam condition compared to continuous or fixed configurations. When consulting the manufacturer's catalog for deflection information, the designer must verify whether the data shown represents simple or continuous beam deflection. If continuous beam deflection is shown, the calculation factor should be given.

NEMA/CSA has one criterion for acceptance under their load test: the ability to support 150% of the rated load.




### Simple vs. Continuous Beam Deflection

Theoretical maximum deflection for a simple beam, uniformly distributed load may be calculated as:

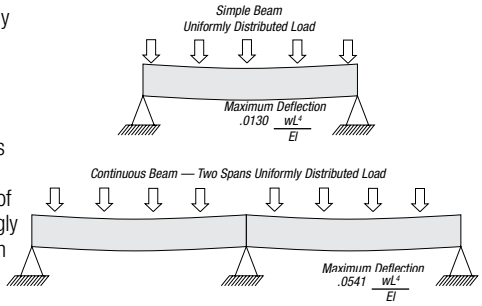
$$.0130 \frac{w L^4}{E I}$$

**Where:** w = Load in lb./ft.
L = Length in Inches
E = Modulus of Elasticity
I = Moment of Inertia

The maximum deflection calculation for a continuous beam of two spans with a uniformly distributed load is:

$$.00541 \frac{w L^4}{E I}$$

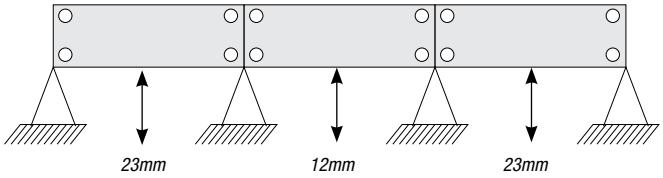
A continuous beam of two spans therefore has a theoretical maximum deflection of only 42% of its simple beam deflection. As the number of spans increases, the beam behaves increasingly like a fixed beam, and the maximum deflection continues to decrease. As this occurs, the system's load-carrying capability increases.



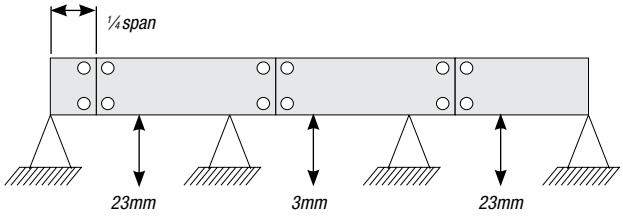

### Location of Couplings

Since different bending moments are created in each span, there is no simple factor to approximate deflection as the number of spans increases. It is possible to calculate these deflections at any given point by using second integration of the basic differential equation for beams. Testing shows that the center span of a three-tray continous beam can deflect less than 10 % of its simple beam deflection.

**Couplers at Supports — Not Recommended**




**Couplers at ¼" Span from Supports — Ideal Layout**




The support span should not be greater than the straight section length, to ensure no more than one splice is located between supports.

**Location of Couplers.** The location of the coupler dramatically affects the deflection of a cable tray system under equal loading conditions. Testing indicates that the maximum deflection of the center span of a three-span tray run can decrease four times if the couplers are moved from one-quarter span to above the supports. This can be a major concern for designers considering modular systems for tray and pipe racks.



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## Technical Information

# Materials and Finishes

### Materials

Most cable tray systems are fabricated from a corrosion-resistant metal (low-carbon steel, stainless steel or an aluminum alloy) or from a metal with a corrosion-resistant finish (zinc or epoxy). The choice of material for any particular installation depends on the installation environment (corrosion and electrical considerations) and cost.

### Aluminum

Cable trays fabricated of extruded aluminum are often used for their high strength-to-weight ratio, superior resistance to certain corrosive environments, and ease of installation. They also offer the advantages of being lightweight (approximately 50% that of a steel tray) and maintenance free, and since aluminum cable trays are non-magnetic, electrical losses are reduced to a minimum.

T&B cable tray products are formed from the 6063 series alloys which by design are copper-free alloys for marine applications. These alloys contain silicon and magnesium in appropriate proportions to form magnesium silicide, allowing them to be heat treated. These magnesium-silicon alloys possess good formability and structural properties, as well as excellent corrosion resistance.

The unusual resistance to corrosion, including weathering, exhibited by aluminum is due to the self-healing aluminum-oxide film that protects the surface. Aluminum's resistance to chemicals in the application environment should be tested before installation.

### Steel

T&B steel cable trays are fabricated from structural quality steels using a continuous roll-formed process. Forming and extrusions increase the mechanical strength.

The main benefits of steel cable tray are its high strength and low cost. Disadvantages include high weight, low electrical conductivity and relatively poor corrosion resistance.

The rate of corrosion will vary depending on many factors such as the environment, coating or protection applied and the composition of the steel. T&B offers finishes and coatings to improve the corrosion resistance of steel. These include pre-galvanized, hot-dip galvanized (after fabrication), epoxy and special paints.

### Stainless Steel

Stainless steel offers high yield strength and high creep strength at high ambient temperatures.

T&B stainless steel cable tray is roll-formed from AISI Type 316 stainless steel.

Stainless steel is resistant to dyestuffs, organic chemicals and inorganic chemicals at elevated temperatures. Higher levels of chromium and nickel and a reduced level of carbon serve to increase corrosion resistance and facilitate welding. Type 316 includes molybdenum to increase high temperature strength and improve corrosion resistance, especially to chloride and sulfuric acid. Carbon content is reduced to facilitate welding.

### Galvanized Coatings

The most widely used coating for cable tray is galvanizing. It is cost-effective, protects against a wide variety of environmental chemicals and is self-healing if an area becomes unprotected through cuts or scratches.

Steel is coated with zinc through electrolysis by dipping steel into a bath of zinc salts. A combination of carbonates, hydroxides and zinc oxides forms a protective film to protect the zinc itself. Resistance to corrosion is directly related to the thickness of the coating and the harshness of the environment.

### Pre-Galvanized

Pre-galvanized, also known as mill-galvanized or hot-dip mill-galvanized, is produced in a rolling mill by passing steel coils through molten zinc. These coils are then slit to size and fabricated.

Areas not normally coated during fabrication, such as cuts and welds, are protected by neighboring zinc, which works as a sacrificial anode. During welding, a small area directly affected by heat is also left bare, but the same self-healing process occurs.

G90 requires a coating of .90 ounces of zinc per square foot of steel, or .32 ounces per square foot on each side of the metal sheet. In accordance with A653/A653M-06a, pre-galvanized steel is not generally recommended for outdoor use or in industrial environments.

### Hot-Dip Galvanized

After the steel cable tray has been manufactured and assembled, the entire tray is immersed in a bath of molten zinc, resulting in a coating of all surfaces, as well as all edges, holes and welds.

Coating thickness is determined by the length of time each part is immersed in the bath and the speed of removal. Hot-dip galvanizing after fabrication creates a much thicker coating than the pre-galvanized process, a minimum of 3.0 ounces per square foot of steel or 1.50 ounces per square foot on each side of the sheet (according to ASTMA123, grade 65).

The process is recommended for cable tray used in most outdoor environments and many harsh industrial environment applications.

### Other Coatings

Epoxy and special paint coatings are available on request.

# Technical Information

## Corrosion

Corrosion of metal occurs naturally when the metal is exposed to chemical or electrochemical attack. The atoms on the exposed surface of the metal come into contact with a substance, leading to deterioration of the metal through a chemical or electrochemical reaction. The corroding medium can be a liquid, gas or solid.

Although all metals are susceptible to corrosion, they corrode in different ways and at various speeds. Pure aluminum, bronze, brass, most stainless steels and zinc corrode relatively slowly, but some aluminum alloys, structural grades of iron and steel and the 400 series of stainless steels corrode quickly unless protected.

Various types of metal corrosion are categorized by its appearance or the method of acceleration:

- Chemical corrosion occurs through dissolution of the metal by reaction with a corrosive medium
- Electrochemical corrosion involves chemical dissolution
- Galvanic corrosion is accelerated by a difference in potential between metals that are in contact
- Pitting corrosion is accelerated by a difference in the concentration of an ion or another dissolved substance
- Crevice corrosion is accelerated by oxygen concentration or ion cell formation
- Erosion corrosion is accelerated by a flow of liquid or gas
- Intergranular corrosion occurs at grain (or crystal) boundaries

## Electrochemical Corrosion

Electrochemical corrosion is caused by an electrical current flow between two dissimilar metals, or if a difference of potential exists, between two areas of the same metal surface.

The energy flow occurs only in the presence of an electrolyte, a moist conductor that contains ions, which carry an electric charge. Solutions of acids, alkalies and salts contain ions, making water — especially salt water — an excellent electrolyte.

## Galvanic Corrosion

Galvanic corrosion results from the electrochemical reaction that occurs in the presence of an electrolyte when two dissimilar metals are in contact. The strength of the reaction — and the extent of the corrosion — depend on a number of factors, including the conductivity of the electrolyte and potential difference of the metals.

The metal with less resistance becomes anodic and more subject to corrosion, while the more resistant becomes cathodic.

The Galvanic Series Table, developed through laboratory tests on industrial metal alloys in sea water (a powerful electrolyte), lists metals according to their relative resistance to galvanic corrosion. Those less resistant to galvanic corrosion (anodic) are at the top, and those more resistant (cathodic) are at the bottom.

The metals grouped together are subject to only slight galvanic effect when in contact, and metals at the top will suffer galvanic corrosion when in contact with metals at the bottom (in the presence of an electrolyte). The farther apart two metals are on the table, the greater the potential corrosion.

## Galvanic Series Table

| ***Anodic End*** | |
|---|---|
| Magnesium | Type 304 stainless steel (active) |
| Magnesium alloys | Type 316 stainless steel (active) |
| Zinc | Lead |
| Galvanized steel | Tin |
| Naval brass (C46400) | |
| Aluminum 5052H | Muntz metal (C28000) |
| Aluminum 3004 | Manganese bronze (C67500) |
| Aluminum 3003 | |
| Aluminum 1100 | Nickel (active) |
| Aluminum 6053 | Inconel (active) |
| Alclad aluminum alloys | |
| Aluminum bronze (C61400) | Cartridge brass (C26000) |
| Cadmium | Admiralty metal (C44300) |
| Copper (C11000) | |
| Aluminum 2017 | Red brass (C23000) |
| Aluminum 2024 | |
| | Silicon bronze (C 65100) |
| Low-carbon steel | Copper nickel, 30% (C71500) |
| Wrought iron | |
| Cast iron | Nickel (passive) |
| Monel | Inconel (passive) |
| Ni-resist | |
| Type 304 stainless steel (passive) | Gold |
| Type 410 stainless steel (passive) | |
| Type 316 stainless steel (active) | Platinum |
| 50Pb-50Sn solder | |
| Silver | |

***Cathodic End***

## Pitting

Pitting corrosion is localized and is identified by a cavity with a depth equal to or greater than the cavity's surface diameter. Pits may have different sizes and depths and most often appear randomly distributed. Aluminum and stainless steels in chloride environments are especially susceptible to pitting.

Pitting begins when surface defects, foreign particles or other variations in the metal lead to fixation of anodic (corroded) and cathodic (protected) sites on the metal surface. Acidic metal chlorides, which form and accumulate in the pit as a result of anodes attracting chloride ions, accelerate the pitting process over time. The nature of pitting often makes it difficult to estimate damage.

## Crevice Corrosion

Crevice corrosion is a specialized form of pitting that particularly attacks metals or alloys protected by oxide films or passive layers. It results from a relative lack of oxygen in a crevice, with the metal in the crevice becoming anodic to the metal outside. For the crevice to corrode, it must be large enough to admit the electrolyte, but small enough to suffer oxygen depletion.

## Erosion Corrosion

While erosion is a purely mechanical process, erosion corrosion combines mechanical erosion with chemical or electrochemical reaction. The process is accelerated by the generally rapid flow of liquid or gas over an eroded metal surface, removing dissolved ions and solid particles. As a result, the metal surface develops grooves, gullies, waves, rounded holes and valleys.

Erosion corrosion can damage most metals, especially soft ones like aluminum that are susceptible to mechanical wear, and those that depend for protection on a passive surface film, which can be eroded. Resulting damage can also be enhanced by particles or gas bubbles in a suspended state.



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## Intergranular Corrosion

Intergranular corrosion occurs between the crystals (or grains) that formed when the metal solidified. The composition of the areas between the crystals differs from that of the crystals themselves, and these boundary areas can become subject to intergranular corrosion. Weld areas of austenitic stainless steels are often affected by this form of corrosion, and the heat-treatable aluminum alloys are also susceptible.

## Corrosion Resistance Guide

The following table has been compiled as a guide for selecting appropriate cable trays for various industrial environments. The information can only be used as a guide because corrosion processes are dictated by the unique circumstances of any particular assembly. Corrosion is significantly affected by trace impurities which, at times, can become concentrated through wet/dry cycles in locations that are prone to condensation and evaporation. It is not uncommon to find aggressive mists created from contaminant species, notably from sulfur or halogen sources.

*Temperature* greatly influences corrosion, sometimes increasing the rate of metal loss (a rule-of-thumb guide is that a 30° C change in temperature results in a 10X change in corrosion rate). Sometimes corrosion attack slows down at higher temperatures because oxygen levels in aqueous solutions are lowered as temperatures increase. If an environment completely dries out, then there can be no corrosion.

*Stress-associated corrosion* might occur when assemblies are poorly installed and/or fabricated, e.g., on-site welding or mechanical fastening. Premature failure can result from corrosion fatigue, which can occur in any environment; stress corrosion cracking, which occurs in the presence of a specific chemical when the metal is under a tensile stress, which may be residual or applied (e.g., from poor fabrication or welding); fretting, where two adjacent surfaces (under load) are subjected to an oscillatory motion across the mating surfaces.

*Design* plays a significant role in exacerbating corrosion. Good design should minimize the risk of stress concentrations within a structure. Examples include sharp profiles, abrupt section changes and threaded screws. These measures are particularly important for metals that are prone to stress corrosion cracking in specific media.

Non-draining locations create liquid traps; local metal-to-metal (or metal-to-non-metal) contact points (e.g., mechanical assemblies [bolts] with washers or spacers) permit crevice corrosion and/or galvanic corrosion to occur. Areas that are poorly maintained (e.g., surfaces are not regularly or properly washed and stubborn deposits remain on the metal surface) are particularly prone to localized corrosion damage due to different levels of oxygen under and adjacent to the location in question (differential aeration). Resulting damage from these situations is in the form of small holes (pits). In each of the examples just quoted there is a restricted supply of oxygen. Thus, metals (e.g., aluminum, stainless steels, zinc) that rely on oxygen to form protective corrosion films (oxides, hydroxides, carbonates, etc.,) may be prone to localized pitting and/or crevice corrosion.

A further example of localized corrosion occurs when dissimilar metals contact each other in the presence of a corrodent, i.e., galvanic corrosion. Each metal will corrode but the one that is most active (anode) can be more corroded especially when there is a large surrounding area of the less active (cathodic) metal. It is wise to avoid small anodic areas. Some examples include steel bolts (small area of anodic metal) in stainless steel plate (large area of cathodic metal); steel bolts in copper plate (the steel corrodes). There can be environmental influences. For example when a fluid that contains active metallic species comes in contact with aluminum (copper picked up from aqueous solutions conveyed in copper pipe), the aluminum corrodes. A further dramatic example is provided when trace quantities of mercury contact aluminum — the aluminum corrodes very rapidly. These are examples of deposit corrosion.

## Key to Symbols in Tables

The following symbols are used throughout the Chemical Species tables in order to provide an indication about the suitability of a potential candidate material for a specific chemical environment.

***Note**: These tables should be regarded only as guides to anticipated performance because of possible contributions from temperature, pollutant (contaminant) species, etc. Further details are given elsewhere.*

| Symbols | |
|---|---|
| **++** | First choice; very low corrosion rate, typically <5 mpy, or <.005 inch/year, (1 mil = 1/1000 inch) |
| **+** | Good choice; low corrosion rate, typically <20 mpy, or <.02 ipy |
| **-** | Can use; corrosion rate up to 50 mpy (.05 ipy); some limitations may apply |
| **X** | Not recommended |
| **(-)** | Brackets indicate probable limitations, e.g., at higher temperatures, [symbol "T"]; at higher concentrations, [symbol "C"]; due to pitting, [symbol "P"]; due to local grain boundary attack in the metal/intergranular corrosion, [symbol "I"]; or, due to stress corrosion cracking, [symbol "S"] |
| **nd** | No available data |

## Chemical Resistance

| CHEMICAL | ALUMINUM | HDG/STEEL | 316SS |
|---|---|---|---|
| Acetaldehyde | ++ | + | ++ |
| Acetic acid (aerated) | (+) T,C | X | (++) T |
| Acetic acid (not aerated) | (+) T,C | X | (++) T |
| Acetone | ++ | ++ | ++ |
| Acetylene | ++ | nd | ++ |
| Allyl alcohol | + | nd | ++ |
| Aluminum chloride (dry) | + | nd | (+) T,P |
| Aluminum chloride (wet) | X | X | (-) P |
| Aluminum sulfate (satd.) | X | nd | + |
| Ammonia (anhydrous) | ++ | ++ | ++ |
| Ammonia (gas) | - | + | (+) T |
| Ammonium acetate | + | nd | + |
| Ammonium bicarbonate | - | nd | (+) T |
| Ammonium carbonate (satd.) | + | X | + |
| Ammonium chloride (28%) | X | X | (+) P,S |
| Ammonium chloride (50%) | X | X | X |
| Ammonium hydroxide | + | + | (++) C |
| Ammonium nitrate | + | X | (++) S |
| Ammonium phosphate (40%) | X | nd | + |
| Ammonium sulfate (to 30%) | X | - | + |
| Amyl acetate | ++ | ++ | ++ |
| Asphalt | ++ | + | + |
| Beer | ++ | X | ++ |
| Benzene (benzol) | ++ | + | (+) P |
| Benzoic acid | + | nd | + |
| Benzol (see benzene) | | | |
| Boric acid (boracic acid) | ++ | nd | (++) T,P |
| Bromine (wet) | X | X | X |
| Butadiene (butylene) | + | + | + |
| Butyl alcohol (butanol) | ++ | ++ | ++ |
| Butyric acid | + | X | + |
| Cadmium sulfate | + | nd | ++ |
| Calcium carbonate | - | nd | + |

## Technical Information



### Chemical Resistance *(continued)*

| CHEMICAL | ALUMINUM | HDG/STEEL | 316SS |
|---|---|---|---|
| Calcium chloride (satd.) | + | X | (+) S |
| Calcium hydroxide (satd.) | X | nd | + |
| Calcium hypochlorite (satd.) | X | X | (-) P |
| Carbon dioxide (wet) | ++ | + | + |
| Carbon disulfide (bisulfide) | ++ | + | ++ |
| Carbon tetrachloride | X | + | (++) P, S |
| Carbolic acid (see phenol) | | | |
| Carbonic acid (see carbon dioxide) | | | |
| Caustic potash (see potassium hydroxide) | | | |
| Caustic soda (see sodium hydroxide) | | | |
| Chlorine gas (wet) | X | ++ | (-) P, S |
| Chloroform | (+) dry | + | (+) T, S |
| Chromic acid | + | nd | (+) P |
| Citric acid (dilute) | (+) T, C | X | (++) P |
| Copper chloride | X | X | (-) P |
| Copper nitrate | X | nd | ++ |
| Copper sulfate | X | - | + |
| Cresol | + | + | + |
| Crude oil | ++ | ++ | ++ |
| Diethylamine | + | ++ | ++ |
| Dimethyl ketone (see acetone) | | | |
| Ethyl acetate | (++) dry | ++ | + |
| Ethyl alcohol (ethanol) | ++ | ++ | ++ |
| Ethylene dichloride | (-) dry | ++ | (+) P, S |
| Ethylene glycol (glycol) | ++ | ++ | ++ |
| Ferric chloride | X | X | X |
| Ferric nitrate (10%) | X | nd | + |
| Ferrous sulfate | + | nd | (+) P |
| Formaldehyde (methanal) | (+) P | ++ | (++) T, C |
| Fluorine gas (moist) | X | X | X |
| Formalin (see formaldehyde) | | | |
| Formic acid (methanoic acid, 10%) | (+) T | X | (+) P, C |
| Furfural (furfuraldehyde) | + | nd | + |
| Furol (see furfural) | | | |
| Gelatin | ++ | + | ++ |
| Glycerine (glycerol) | ++ | ++ | ++ |
| Hexamine (80%) | ++ | nd | ++ |
| Hydrobromic acid | X | X | X |
| Hydrochloric acid (muriatic acid) | X | X | X |
| Hydrocyanic acid (dilute) | + | nd | + |
| Hydrocyanic acid (conc.) | X | nd | + |
| Hydrofluoric acid | X | X | X |
| Hydrogen chloride gas (dry) | X | X | (++) S |
| Hydrogen chloride gas (wet) | X | X | + |
| Hydrogen fluoride | (-) T | nd | + |
| Hydrogen peroxide (to 40%) | ++ | nd | + |
| Hydrogen sulfide (wet) | (+) P | nd | (+) P, S |
| Hypo (see sodium thiosulfate) | | | |
| Hypochlorous acid | X | X | X |
| Iodine solution (satd.) | X | X | X |
| Lactic acid | (+) T | nd | (+) P, I |
| Latex | ++ | - | ++ |
| Lithium chloride (to 30%) | X | nd | ++ |
| Linseed oil | + | nd | ++ |
| Magnesium chloride (50%) | X | X | (+) P, S |
| Magnesium hydroxide | + | nd | ++ |
| Magnesium sulfate | + | X | + |
| Maleic acid (maleinic acid, 20%) | + | nd | + |
| Methyl alcohol (methanol) | ++ | ++ | ++ |
| Methyl ethyl ketone | + | ++ | + |
| Milk | ++ | X | ++ |

| CHEMICAL | ALUMINUM | HDG/STEEL | 316SS |
|---|---|---|---|
| Molasses | + | nd | ++ |
| Naptha | + | + | + |
| Natural fats | ++ | ++ | ++ |
| Nickel chloride | X | nd | (+) P, S |
| Nickel sulfate | X | nd | + |
| Nitric acid | X | X | (++) I |
| Oleic acid | (++) T | nd | ++ |
| Oxalic acid (dilute) | - | nd | + |
| Oxalic acid (satd.) | (+) T | X | X |
| Paraformaldehyde (to 30%) | + | nd | ++ |
| Perchloroethylene | + | X | (++) P |
| Phenol (carbolic acid) | + | + | ++ |
| Phosphoric acid (dilute) | X | X | ++ |
| Phosphoric acid (50%) | X | X | (++) I |
| Picric acid | ++ | nd | + |
| Potassium bicarbonate (30%) | X | nd | ++ |
| Potassium carbonate | X | nd | ++ |
| Potassium chloride (to 25%) | X | X | (++) P |
| Potassium dichromate (30%) | (++) T | X | ++ |
| Potassium hydroxide | X | nd | (+) S |
| Potassium nitrate | ++ | ++ | + |
| Potassium sulfate | ++ | ++ | ++ |
| Propionic acid (propanoic acid) | (+) T | X | (+) T |
| Propyl alcohol (propane) | ++ | ++ | ++ |
| Prussic acid (see hydrocyanic acid) | | | |
| Pyridine | + | nd | ++ |
| Soaps | + | - | + |
| Sodium bicarbonate (20%) | + | nd | ++ |
| Sodium bisulfate | X | X | (+) T |
| Sodium bisulfite | X | X | + |
| Sodium chloride (to 30%) | X | X | (+) P, S |
| Sodium cyanide | X | nd | (+) T |
| Sodium hydroxide (10–30%) | X | X | (+) S |
| Sodium hydroxide (50%) | X | X | (++) S |
| Sodium hydroxide (conc.) | X | X | ++ |
| Sodium hypochlorite (conc.) | X | + | (-) P, S |
| Sodium nitrate | ++ | X | ++ |
| Sodium peroxide (10%) | + | nd | + |
| Sodium silicate | ++ | nd | ++ |
| Sodium sulfate | (++) 30% | X | ++ |
| Sodium sulfide (to 50%) | X | nd | (+) T |
| Sodium thiosulfate | + | nd | ++ |
| Steam | (+) P | ++ | ++ |
| Stearic acid | + | nd | ++ |
| Sorbital (hexahydric alcohol) | ++ | + | ++ |
| Sulfur dioxide (dry) | + | + | ++ |
| Sulfur dioxide (wet) | X | X | (+) T |
| Sulfuric acid (to 80%) | X | X | X |
| Sulfuric acid (80–90%) | X | X | (-) I |
| Sulfuric acid (98%) | X | X | (+) I |
| Tannic acid (tannin) | X | X | + |
| Tartaric acid (to 50%) | (+) T | nd | ++ |
| Toluene (Toluol; methyl benzene) | ++ | ++ | ++ |
| Trichloroethylene | (++) T | + | (+) P |
| Turpentine | + | ++ | ++ |
| Water (acid, mine) | X | - | (++) P |
| Water (potable) | + | + | ++ |
| Water (sea) | + | + | ++ |
| Xylene | ++ | nd | ++ |
| Zinc chloride (dilute) | ++ | nd | (++) P, S |



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# Electrical Grounding Capacity/Thermal Expansion and Contraction



## 7. Electrical Grounding Capacity

The National Electrical Code®, Section 392.60 allows cable tray to be used as an equipment grounding conductor. All T&B standard cable trays are classified by UL per NEC® Table 392.60(A) based on their cross sectional area.

The corresponding cross-sectional area for each siderail design (2-siderails) is listed on the label. This cable tray label is attached to each straight section that is UL classified. Fittings are not subject to CSA or UL.

*See **pages B-377–B-379** for grounding and bonding products.*

*For more information on grounding and bonding cable tray, refer to section 4.7 of the NEMA VE 2 Cable Tray installation guidelines.*

**NEC Table 392.60(A) Metal Area Requirements for Cable Trays Used as Equipment Grounding Conductors**

| Maximum Fuse Ampere Rating, Circuit Breaker Ampere Trip Setting or Circuit Breaker Protective Relay Ampere Trip Setting for Ground Fault Protection of any Cable Circuit in the Cable Tray System | Minimum Cross-Sectional Area of Metal in Square Inches* | |
|---|---|---|
| | Steel Cable Trays | Aluminum Cable Trays |
| 60 | .20 | .20 |
| 100 | .40 | .20 |
| 200 | .70 | .20 |
| 400 | 1.00 | .40 |
| 600 | 1.50 ** | .40 |
| 1000 | — | .60 |
| 1200 | — | 1.00 |
| 1600 | — | 1.50 |
| 2000 | — | 2.00 ** |

***For SI units**: One square inch = 645 square millimeters.*

** Total cross-sectional area of both side rails for ladder or trough-type cable trays, or the minimum cross-sectional area of metal in channel-type cable trays or cable trays of one-piece construction.*

*** Steel cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 600 amperes. Aluminum cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 2000 amperes.*

*For larger ampere ratings, an additional grounding conductor must be used.*

## Thermal Expansion and Contraction

A cable tray system may be affected by thermal expansion and contraction, which must be taken into account during installation. To determine the number of expansion splice plates you need, decide the length of the straight cable tray runs and the total difference between the minimum winter and maximum summer temperatures. To function properly, expansion splice plates require accurate gap settings between trays. To find the gap, see **Table 2**.

## Plot Your Gap Setting

- Locate the lowest metal temperature on low temperature line
- Locate the highest metal temperature on high temperature line
- Connect these two points
- Locate installation temperature and plot to high/low line; drop plot to gap setting

The support nearest the midpoint between expansion splice plates should be anchored, allowing the tray longitudinal movement in both directions. All other support location should be secured by expansion guides (see **Table 3**).

When a cable tray system is used as an equipment grounding conductor, it is important to use bonding jumpers at all expansion connections to keep the electrical circuit continuous.

**Table 1**

**Maximum Distance Between Expansion Joints (For 1" Movement)**

| TEMPERATURE DIFFERENTIAL | | STEEL | | ALUMINUM | |
|---|---|---|---|---|---|
| °C | °F | M | FT. | M | FT. |
| 14 | 25 | 156 | 512 | 79 | 260 |
| 28 | 50 | 78 | 256 | 40 | 130 |
| 42 | 75 | 52 | 171 | 27 | 87 |
| 56 | 100 | 39 | 128 | 20 | 65 |
| 70 | 125 | 31 | 102 | 16 | 52 |
| 83 | 150 | 26 | 85 | 13 | 43 |
| 97 | 175 | 22 | 73 | 11 | 37 |

***Note**: Every pair of expansion splice plates requires two bonding jumpers for grounding continuity.*

**Table 2**

**Gap Setting of Expansion Splice Plate**

**1" (25.4) Gap Maximum**

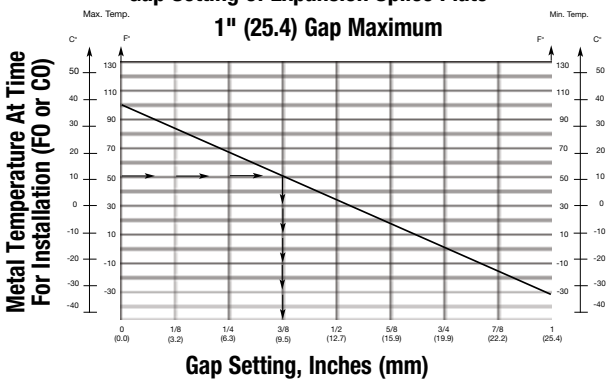
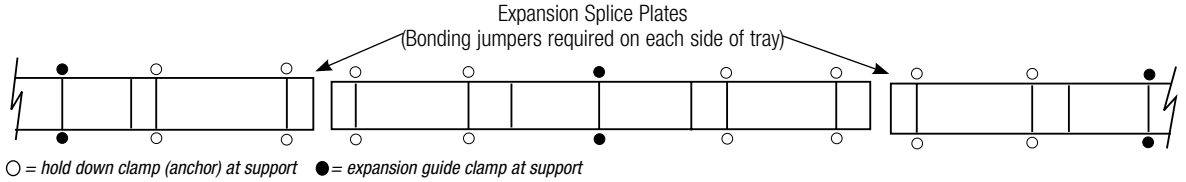



**Table 3**

**Typical Cable Tray Installation**




○ = *hold down clamp (anchor) at support* ● = *expansion guide clamp at support*

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

# Technical Information

## Structural Design

An installed cable tray system functions as a beam under a uniformly distributed load. The four basic beam configurations found in cable installations are simple, continuous, cantilever and fixed. Each is attached to the cable tray support in a different way.

## Simple Beam

A straight section of cable tray supported at both ends but not fastened functions as a simple beam. Under a load, the tray will exhibit deflection. The load-carrying capacity of a cable tray unit should be based on simple beam loading, since this type of loading occurs at run ends, offsets, etc., in any tray system. The NEMA/CSA Load Test is a simple beam, uniformly distributed load test. It represents the worst-case beam condition compared to continuous or fixed configurations. The only criterion for NEMA/CSA acceptance is the ability to support 150% of the rated load.

## Continuous Beam

Cable tray sections forming spans constitute a continuous beam configuration, the most common found in cable tray installations. This configuration exhibits characteristics of the simple beam and the fixed beam. For example, with loads applied to all spans at the same time, the ends spans function like simple beams, while the counterbalancing loads on either side of a support function like a fixed beam. As the number of spans increases, the continuous beam behaves increasingly like a fixed beam, and the maximum deflection continues to decrease. As this occurs, the system's load-carrying capability increases.

## Cantilever Beam

A cantilever beam has more to do with the cable tray supports than the tray. Attaching one end of a beam to a support while the other end remains unsupported, as when wall mounting a bracket, creates a cantilever beam configuration. Obviously, with one end unsupported, the load rating of a cantilever beam is significantly less than that of a simple beam.

## Fixed Beam

A fixed beam applies more to the cable tray supports than the tray itself, because both ends of a fixed beam are firmly attached to the supports. The rigid attachment prevents movement and increases load-bearing ability.

## Design Loadings

Basic cable trays are designed on the basis of maximum allowable stress for a certain section and material. The allowable cable load varies with the span, type and width of the tray.

## Splicing

A continuous system requires that side rails be spliced, and splice plates must be strong and easy to install. T&B Aluminum Snap-In Splice Plate allows hands-free installation of hardware for easier assembly. If practical, splices in a continuous span cable tray system should be installed at points of minimum stress. Unspliced straight sections should be used on all simple spans and on end spans of continuous span runs. Straight section lengths should be equal to or greater than the span length to ensure not more than one splice between supports. Examples of splicing configurations are shown on **page B-266**.

## Basic Design Stresses

Allowable working stresses are the basis for all structural design. Since they must be of such magnitude as to ensure the safety of the structure against failure, their selection is a matter of prime importance. In practice, a basic design stress is determined by dividing the strength of the material by a factor of safety. The determining factors in establishing a set of basic design stresses for a structure are therefore the mechanical properties of the materials and suitable factors of safety. Yield strength and ultimate strength are the mechanical properties most commonly considered to govern design. Values for these properties are readily obtainable. In determining the factor of safety, the designer must be guided by official technical standards and his or her own judgment and experience.

## Factors of Safety

Since a low value for the factor of safety results in economy of material, the designer seeks to establish a value as low as is practical, based on sound engineering judgment and experience. Consider these important criteria:

***The accuracy with which the loads to represent service conditions are selected and assumed.*** If there is much doubt concerning these loads, the basic design stress will have to be more conservative than under conditions where the loads are known with considerable accuracy.

***The accuracy with which the stresses in the members of a structure are calculated.*** Many approximations are used in structural design to estimate stress distribution. The choice of a factor of safety should be consistent with how accurate the analysis is. The more precise the method, the greater the allowable unit stress may be.

***The significance of the structure being designed.*** The designer must keep in mind the relative importance of the structure and appraise the possibility of its failure causing significant property damage or loss of life. In this respect, the significance of the design will govern the choice of a factor of safety to a considerable extent.

## Application of Design Stresses to Cable Tray Systems

A cable tray manufacturer must design standard products to accommodate the great variations encountered in applications. The factors affecting the selection of a suitable basic design stress necessarily result in more conservative stresses than might otherwise be required.

An engineer may consider that the manufacturer's basic design stresses are too conservative for a particular project and establish a new set of basic design stresses, selecting those safety factors that would result in a cable tray system best suited to meet the projected service conditions. With these stresses, the engineer can easily calculate an increase or decrease in the manufacturer's loading data, since the load is always in direct proportion to the stress.
The factors of safety determining maximum allowable stresses are:

- Aluminum Alloys
  a. For tension: the lower of ⅓ the minimum ultimate strength or ½ the minimum yield strength in tension.
  b. For compression: the lower of ⅓ the minimum ultimate strength or ⅖ the minimum yield strength in compression.
  c. For shear: the lower of ⅓ the minimum ultimate strength or ½ the minimum yield strength in shear.
- Hot-Rolled Steels
  a. For tension: the lower of ½ the minimum ultimate strength or the minimum yield point in tension times .61.
  b. For compression: the lower of ½ the minimum ultimate strength or the minimum yield point in compression times .61.
  c. For shear: maximum stress not to exceed a value of ⅖ the basic design stress for tension.

## Design Efficiency

A tray designed to perform its required function with the minimum weight (which facilitates installation) requires the material to be used in the most effective manner. The design requirements of side rails are different from those of rungs or ventilated bottom; fabricated tray allows the designer to use different shapes and thicknesses of metal to the best advantage. The strength of the side rail and rungs is increased by the proper use of metal in the high-strength heat-treated aluminum or continuously rolled cold-worked steel sections.

## Loading

Per NEMA VE1, cable tray is not designed to support personnel. Display warnings to prevent the use of cable tray as walkways.

## Cable Loads

The cable load is the total weight, expressed in kg/m or lb./ft., of all the cables placed in the cable tray.

## Seismic Loads

Cable tray systems can withstand stronger earthquakes than previously thought. The tray itself and the support material are highly ductile, and the cables moving within the tray tend to dissipate energy. Consult T&B if you have specific seismic specifications.



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# Technical Information

## Load Diagrams for Beams

### SIMPLE BEAMS

**Uniform Load**

w per unit of length, total load w

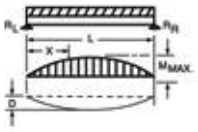
Reaction: $Rl = Rr = \frac{WL}{2} = \frac{W}{2}$

Moment at any point: $M = \frac{wX(L-X)}{2} = \frac{WX(L-X)}{2L}$

Maximum moment, at center: $Mmax = \frac{wL2}{8} = \frac{WL}{8}$

Maximum deflection: $D = \frac{5wL4}{384EI} = \frac{5WL3}{384EI}$

Maximum shear: $V = \frac{WL}{2}$



**Concentrated Load at Center**

Reaction: $Rl = Rr = \frac{P}{2}$

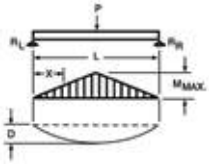
Moment at any point: $X < = \frac{L,}{2}$ $M = \frac{PX}{2}$

$X > = \frac{L,}{2}$ $M = \frac{P(L-X)}{2}$

Maximum moment, at center: $Mmax = \frac{PL}{4}$

Maximum deflection: $D = \frac{PL^3}{384EI}$

Maximum shear: $V = \frac{P}{2}$



**Concentrated Load at any Point**

Reaction: $RL = \frac{Pb,}{L}$ $Rr = \frac{Pa}{L}$

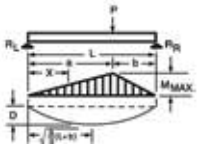
Moment at any point: $X <= a, M = RlX = \frac{PbX}{L}$

$X >= a, M = Rr(L-X) = \frac{Pa(L-X)}{L}$

Maximum moment: At $X = a$, $Mmax = \frac{Pab}{L}$

Maximum deflection: $D = \frac{Pab(L+b)3a(L+b)}{27EIL}$

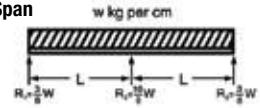
Maximum shear: $V = \frac{Pa}{L}$, when $a > b$

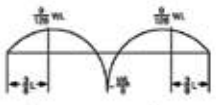


### CONTINUOUS BEAMS

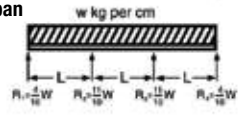
W = wL
R = Reaction, kg
L = Span Length, cm R1 = cw

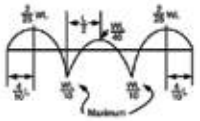
**Two Span** w kg per cm



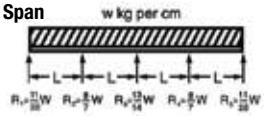


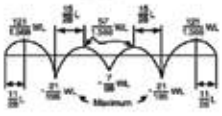
**Three Span** w kg per cm



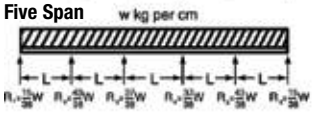


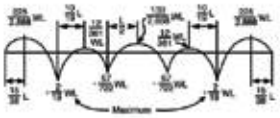
**Four Span** w kg per cm





**Five Span** w kg per cm





### CANTILEVER BEAMS

**Uniform Load**

w per unit of length: total load w

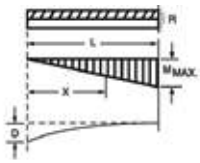
Reaction R = wL = W

Moment at any point: $M = \frac{WX^2}{2} = \frac{WX^2}{2L}$

Maximum moment: $Mmax = \frac{wL^2}{2} = \frac{WL}{2}$

Maximum deflection: $D = \frac{wL^4}{8EI} = \frac{WL^3}{8EI}$

Maximum shear: $V = wL$



Concentrated load at free end

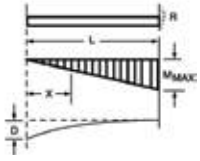
Reaction; R = P

Moment at any point: M = Px

Maximum moment, Mmax = PL

Maximum deflection, $D = \frac{PL^3}{3EI}$

Maximum shear, V = P



## General Loading Requirements and Maps (IEEE: Section 25 Loading for Grades B, C and D)

### General

1. It is necessary to assume the loadings that may be expected to occur on a line because of wind and ice during all seasons of the year. These weather loadings shall be the values of loading resulting from the application of Rules 250B or 250C. Where both rules apply, the required loading shall be the one that, when combined with the appropriate overload capacity factors, has the greater effect on strength requirements.
2. Where construction or maintenance loads exceed those imposed by Rule 250A1, which may occur more frequently in light loading areas, the assumed loadings shall be increased accordingly.
3. Loadings experienced in certain areas in each of the loading districts may be greater or may be less than those specified in these rules. In the absence of a detailed loading analysis, no reduction in the loadings specified therein shall be made without the approval of the administrative authority.

### Combined Ice and Wind Loading

Three general degrees of loading due to weather conditions are designated as heavy, medium and light loading. **Page B-438** shows the districts in which these loadings are normally applicable as well as the radial thickness of ice and the wind pressures to be used in calculating loading. Ice is assumed to weigh 57 lb./ft.$^2$ (913 kg/m$^3$).

### Extreme Wind Loading

If any portion of a structure or its supported facilities exceeds 60 ft. (18m) above ground or water level, the applicable horizontal wind speed shall be used to calculate horizontal wind pressures. These pressures shall be applied to the entire structure and supported facilities without ice loading. The following formulas shall be used to calculate wind pressures on cylindrical surfaces:

pressure in lb./ft.$^3$ = .00256 (v m/h)$^2$

pressure in pascals = .613 (v m/h)$^2$

**Page B-438** lists the conversions of velocities to pressures for typical wind speeds as calculated by the formulas listed above. If no portion of the structure or its supported facilities exceeds 60 ft. (18m) above ground or water level, the provisions of this rule are not required.

# Cable Tray Engineering Specification

### Cable Tray

- Cable tray shall be by one manufacturer and shall consist of straight sections, fittings and accessories per NEMA VE1-2006/CSA C22.2 No. 126.1-02. Cable tray must be listed by UL as equipment grounding conductor. There shall be no burrs, projections or sharp edges to damage the cable insulation.

### Material

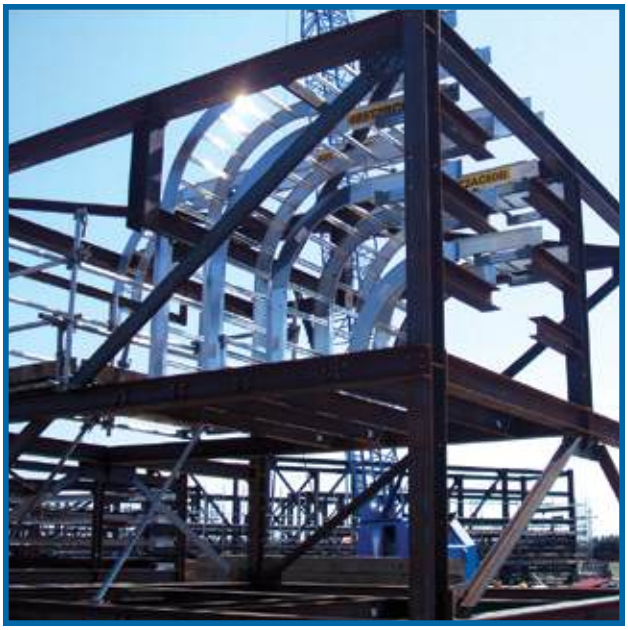
- Aluminum — All siderails, and rungs shall be of extruded aluminum type 6063-T6. Siderails shall be of I-beam construction.
- Pre-Galvanized Steel — All siderails and rungs shall be of steel conforming to the requirements of ASTM A653/A653M-06a with G90 coating thickness. Siderail shall be reinforced with flanges turned inward.
- Hot Dip Galvanized Steel — All siderails and rungs shall be made from steel conforming to the requirements of A1008/A1008M-07, SS grade 33, type 2 or A1011/A1011-06b SS, grade 33 and shall be hot dip galvanized after manufacture per ASTM A123 providing a minimum thickness of 1.50 oz per ft.2
- Stainless Steel — All cable tray and accessories shall be of type AISI 316 stainless steel.

### Tray Types

- Ladder — Ladder tray shall incorporate two siderails connected by lateral rungs. Rungs shall provide minimum 1" bearing surface and have slots perpendicular to the centerline of the rung on 1" centers for attachment of cable ties. Rungs shall also have an open slot to facilitate attachment of pipe straps and other accessories. Rungs shall be installed at 6", 9", 12" or 18" spacing. The rungs shall not be below the bottom of the siderail.
- Solid Bottom — Solid Bottom tray shall incorporate two siderails connected by rungs on 12" centers with a solid sheet applied below the rungs.
- Ventilated Trough — Ventilated trough tray shall incorporate two siderails connected by rungs at 4" spacing.

### Dimensions

- Siderail Height — Siderails heights shall be 3-⅝", 4", 5", 6", and 7" minimum loading depths shall be 2-⅝", 3", 4", 5", and 6".
- Length — All cable tray straight sections shall be supplied in 12', 24', 3m and 6m lengths.
- Width — Cable tray shall be supplied in 6", 9", 12", 18", 24", 30" and 36" widths as required.
- Radiused Fittings — For all fittings requiring a radius that radius shall be 12", 24", 36", and 48" and shall be measured to the nearest perpendicular surface.



### Accessories

- Covers and Accessories — Covers shall be supplied to protect tray cable where needed. Appropriate holddowns shall be supplied to properly attach the covers to the tray.
- Splice Plates — Aluminum splice plates shall be designed to snap into tray siderail and shall be supplied with four square neck carriage bolts and hex nuts for attachment. Steel splice plates shall be supplied with four square neck carriage bolts and hex nuts for attachment.

### Loading Capabilities

- Cable tray shall meet specified NEMA/CSA load ratings with safety factor of 1.5.

### Design and Manufacture

- Cable tray design shall be that of T&B Cable Tray Systems as manufactured by Thomas & Betts.



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# Technical Information

## Selection of Thomas & Betts Series of Cable Tray

***— Please refer to Table 2 for Aluminum and Table 3 for Steel***

### Table 1 Load/Span Class Designation

| LOAD | | SPAN, M (FT.) | | | | |
|---|---|---|---|---|---|---|
| KG/M | LB./FT. | 2.4 (8) | 3.0 (10) | 3.7 (12) | 4.9 (16) | 6.0 (20) |
| **37** | **25** | — | A | — | — | — |
| **67** | **45** | — | — | — | — | D |
| **74** | **50** | 8A | — | 12A | 16A | 20A |
| **97** | **65** | — | C | — | — | — |
| **112** | **75** | 8B | — | 12B | 16B | E or 20B |
| **149** | **100** | 8C | — | 12C | 16C | 20C |
| **179** | **120** | — | D | — | — | — |
| **299** | **200** | — | E | — | — | — |

***Note**: 8A/B/C, 12A/B/C, 16A/B/C and 20A/B/C are the traditional NEMA designations. A, C, D and E are the conventional CSA designations.*

### Table 2 Aluminum Load / Span Class Designation

| SIDE RAIL HEIGHT | SERIES | LOAD DEPTH (IN.) NOMINAL | NEMA CLASS | CSA CLASS |
|---|---|---|---|---|
| 4" | **AH04** | 3" | 8B | — |
| | **AH14** | | 12A | C/3m |
| | **AH24** | | 12B | D/3m |
| | **AH34** | | 12C | D/6m |
| | **AH44** | | 20A | E/3m |
| | **AH54** | | 20B | E/6m |
| 5" | **AH25** | 4" | 12C | D/6m |
| | **AH35** | | 20A | E/3m |
| | **AH45** | | 20B | E/6m |
| 6" | **AH06** | 5" | 12B | C/3m |
| | **AH16** | | 12C | D/6m |
| | **AH26** | | 20A | E/3m |
| | **AH36** | | 20B | E/6m |
| | **AH46** | | 20C | — |
| | **AH56** | | 20C | — |
| | **AH66** | | 20C | — |
| 7" | **AH27** | 6" | 20B | E/6m |
| | **AH37** | | 20C | — |

***Note**: See appendix for information on Aluminum "Heavy Load" bearing trays and spans beyond 6m.*

### Table 3 Steel Load/Span Class Designation

| SIDE RAIL HEIGHT | SERIES | LOAD DEPTH (IN.) NOMINAL | NEMA CLASS | CSA CLASS |
|---|---|---|---|---|
| 3⅝" | **SH13/SP13/SS13** | 2⅝" | **12A** | **C/3M** |
| 4" | **SH14/SP14/SS14** | 3" | **12C** | **D/3M** |
| | **SH34/SP34/SS34** | | **20A** | **D/6M** |
| 5" | **SH25/SP25/SS25** | 4" | **20A** | **D/6M** |
| | **SH45/SP45/SS45** | | **20B** | **E/6M** |
| | **SH55/SP55/*** | | **20C** | **—** |
| 6" | **SH16/SP16/SS16** | 5" | **20A** | **D/6M** |
| | **SH36/SP36/SS36** | | **20B** | **E/6M** |
| | **SH46/SP46/*** | | **20C** | **—** |
| 7" | **SH37/SP37/*** | 6" | **20C** | **—** |

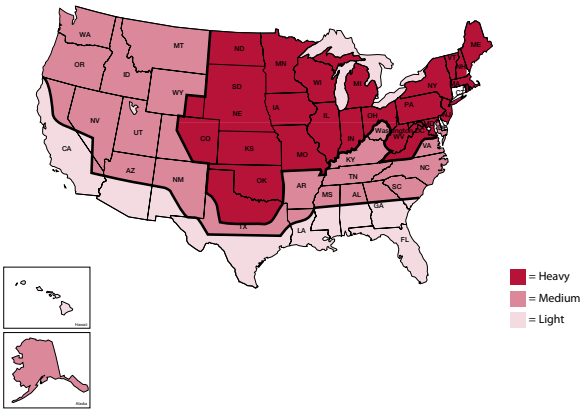
** Stainless Steel 316 available. Consult with T&B sales for further information.*

## Technical Information

# Loading for Grades B, C and D

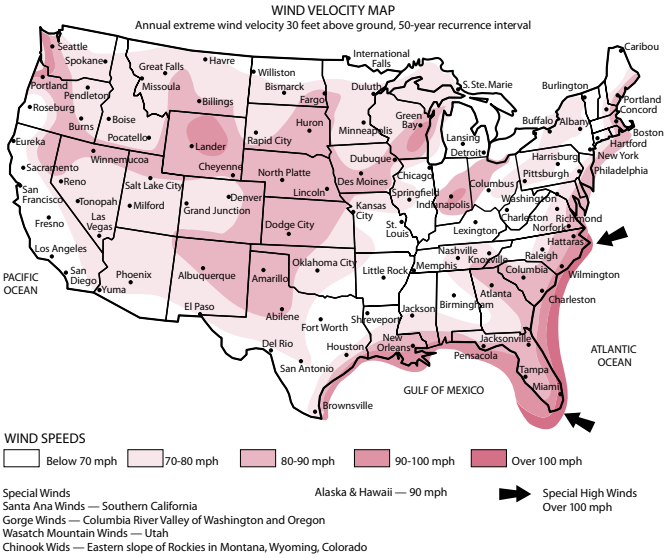
## US Installations

**Fig. 250-1USA: General Loading Map of USA with respect to loading of overhead lines**




***Note:*** *The localities are classified in the different loading districts according to the relative simultaneous prevalence of wind velocity and thickness of ice that accumulates on wires. Light loading is for places where little, if any, ice accumulates on wires.*

**Fig. 250-2USA: Basic Wind Speed (miles per hour)**




This map is reproduced by permission of the American Society of Civil Engineers.

***Note:*** *Wind velocity usually increases with height; therefore, experience may show that the wind pressures specified herein need to be further increased.*

## Canadian Installations

**Fig. 250-1CDN: General Loading Map of Canada with respect to loading of overhead lines**

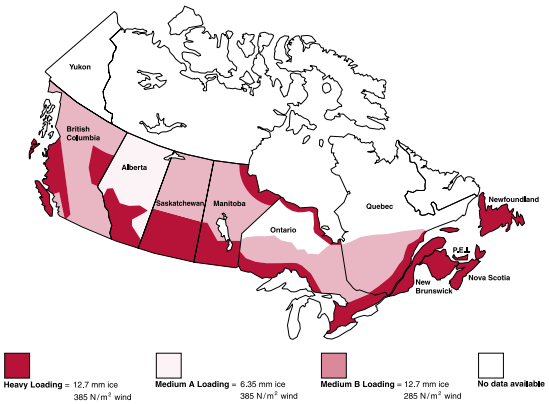



**Fig. 250-2CDN: Basic Wind Speed (miles per hour)**



***Note:*** *All maximum wind velocities are in miles per hour based on a 50-year mean recurrence interval (annual probability = 2%) at a height of 30 ft. (10 m) over smooth terrain.*

Wind map reproduced from ASCE 7-88 [52]. For Hawaii and Puerto Rico, the basic wind speeds are 80 mph and 95 mph, respectively.

***Note:*** *Wind velocity usually increases with height; therefore, experience may show that the wind pressures specified herein need to be further increased.*



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*Technical Information*

# Non-Metallic Cable Tray

**Typical Properties Of Pultruded Components**

Thomas & Betts Non-Metallic Cable Tray systems are manufactured from glass fiber-reinforced plastic shapes that meet ASTM E-84, Class 1 Flame Rating and self-extinguishing requirements of ASTM D-635. A surface veil is applied during pultrusion to ensure a resin-rich surface and ultraviolet resistance.

| PROPERTIES | TEST METHOD | UNIT/ VALUE | 3" & 4" CABLE TRAY, CABLE CHANNEL | | 6" CABLE TRAY | |
|---|---|---|---|---|---|---|
| | | | LONGITUDINAL | TRANSVERSE | LONGITUDINAL | TRANSVERSE |
| Tensile Strength | ASTM D638 | psi | 30,000 | 7,000 | 40,000 | 4,500 |
| Tensile Modulus | ASTM D638 | psi x $10^6$ | 2.5 | .8 | 3.2 | .6 |
| Flexural Strength | ASTM D790 | psi | 30,000 | 10,000 | 40,000 | 10,000 |
| Flexural Modulus | ASTM D790 | psi x $10^6$ | 1.6 | .8 | 2.1 | .8 |
| Izod Impact | ASTM D256 | ft-lbs/in | 28 | 4 | 28 | 4 |
| Compressive Strength | ASTM D695 | psi | 30,000 | 15,000 | 40,000 | 10,000 |
| Compressive Modulus | ASTM D695 | psi x $10^6$ | 2.5 | 1.0 | 3.2 | .7 |
| Barcol Hardness | ASTM D2583 | — | 45 | 45 | 45 | 45 |
| Shear Strength | ASTM D732 | psi | 5,500 | 5,500 | 5,500 | 5,500 |
| Density | ASTM D1505 | lbs/$in^3$ | .058–.62 | — | .072–.076 | — |
| Coefficient of Thermal Expansion | ASTM D696 | in/in/°F | 5.0 x $10^{-6}$ | — | 5.0 x $10^{-6}$ | — |
| Water Absorption | ASTM D570 | Max % | .5 | | .5 | — |
| Dielectic Strength | ASTM D149 | V/mil (vpm) | 200 | — | 200 | — |
| Flammability Classification | UL94 | V0 | — | — | — | — |
| Flame Spread | ASTM E-84 | 20 Max | — | — | — | — |

**Flame Rating Results**

| TEST | IGNITION | BURNING | RATING |
|---|---|---|---|
| Flame Resistance (FTMS 406-2023) | 75 seconds | 75 seconds | — |
| Intermittent Flame Test (HLT- 15) | — | — | 100 |
| Flammability Test (ASTM D635) | None | 0 second | — |

## Technical Information

# Corrosion Guide

The information shown in this corrosion guide is based on full immersion laboratory tests and data generated from resin manufacturers. It should be noted that in some of the environments listed, splashes and spills may result in a more corrosive situation than indicated due to the evaporation of water. Regular wash down is recommended in these situations.

All data represents the best available information and is believed to be correct. The data should not be construed as a warranty of performance for that product as presented in these tables. User tests should be performed to determine suitability of service if there is any doubt or concern.

Such variables as concentration, temperature, time of exposure and combined chemical effects of mixtures of chemicals make it impossible to specify the exact suitability of fiber-reinforced plastics in all environments. Thomas & Betts will be happy to supply material samples for testing. These recommendations should only be used as a guide and Thomas & Betts does not take responsibility for design or suitability of materials for service intended. In no event will Thomas & Betts be liable for any consequential or special damages for any defective material or workmanship including, without limitation, labor charges or other expenses or damage to property resulting from loss of materials or profits or increased expenses of operations.

### Non-Metallic Cable Tray

| | POLYESTER | | VINYLESTER | |
|---|---|---|---|---|
| CHEMICAL ENVIRONMENT | MAX WT. % | MAX OPER. TEMP °F | MAX WT. % | MAX OPER. TEMP °F |
| Acetic Acid | 10 | 190 | 10 | 210 |
| Acetic Acid | 50 | 125 | 50 | 180 |
| Acetone | N/R | N/R | 100 | 75 |
| Aluminum Chloride | SAT | 170 | SAT | 200 |
| Aluminum Hydroxide | SAT | 160 | SAT | 170 |
| Aluminum Nitrate | SAT | 150 | SAT | 170 |
| Aluminum Sulfate | SAT | 180 | SAT | 200 |
| Ammonium Chloride | SAT | 170 | SAT | 190 |
| Ammonium Hydroxide | 1 | 100 | 10 | 150 |
| Ammonium Hydroxide | 28 | N/R | 28 | 100 |
| Ammonium Carbonate | N/R | N/R | SAT | 150 |
| Ammonium Bicarbonate | 15 | 125 | SAT | 130 |
| Ammonium Nitrate | SAT | 160 | SAT | 190 |
| Ammonium Persultate | SAT | N/R | SAT | 150 |
| Ammonium Sulfate | SAT | 170 | SAT | 200 |
| Amyl Alcohol | ALL | N/R | ALL | 90 |
| Amyl Alcohol Vapor | — | 140 | — | 120 |
| Benzene | N/R | N/R | 100 | 140 |
| Benzene Sulfonic Acid | 25 | 110 | SAT | 200 |
| Benzoic Acid | SAT | 150 | SAT | 200 |
| Benzoyl Alcohol | 100 | N/R | 100 | N/R |
| Borax | | SAT | 170 | SAT |
| Calcium Carbonate | SAT | 170 | SAT | 200 |
| Calcium Chloride | SAT | 170 | SAT | 200 |
| Calcium Hydroxide | 25 | 70 | 25 | 165 |
| Calcium Nitrate | SAT | 180 | SAT | 200 |
| Calcium Sulfate | SAT | 180 | SAT | 200 |
| Carbon Disulfide | N/R | N/R | N/R | N/R |
| Carbonic Acid | SAT | 130 | SAT | 180 |
| Carbon Dioxide Gas | — | 200 | — | 200 |
| Carbon Monoxide Gas | — | 200 | — | 200 |
| Carbon Tetrachloride | N/R | N/R | 100 | 75 |
| Chlorine, Dry Gas | — | 140 | — | 170 |
| Chlorine, Wet Gas | — | N/R | — | 180 |
| Chlorine Water | SAT | 80 | SAT | 180 |

| | POLYESTER | | VINYLESTER | |
|---|---|---|---|---|
| CHEMICAL ENVIRONMENT | MAX WT. % | MAX OPER. TEMP °F | MAX WT. % | MAX OPER. TEMP °F |
| Chromic Acid | 5 | 70 | 10 | 120 |
| Citric Acid | SAT | 170 | SAT | 200 |
| Copper Chloride | SAT | 170 | SAT | 200 |
| Copper Cyanide | SAT | 170 | SAT | 200 |
| Copper Nitrate | SAT | 170 | SAT | 200 |
| Crude Oil, Sour | 100 | 170 | 100 | 200 |
| Cyclohexane | N/R | N/R | N/R | N/R |
| Cyclohexane, Vapor | ALL | 100 | ALL | 130 |
| Diesel Fuel | 100 | 160 | 100 | 180 |
| Diethyl Ether | N/R | N/R | N/R | N/R |
| Dimethyl Phthalate | N/R | N/R | N/R | N/R |
| Ethanol | 50 | 75 | 50 | 90 |
| Ethyl Acetate | N/R | N/R | N/R | N/R |
| Ethylene Chloride | N/R | N/R | N/R | N/R |
| Ethylene Glycol | 100 | 90 | 100 | 200 |
| Fatty Acids | SAT | 180 | SAT | 200 |
| Ferric Chloride | SAT | 170 | SAT | 200 |
| Ferric Nitrate | SAT | 170 | SAT | 200 |
| Ferric Sulfate | SAT | 170 | SAT | 200 |
| Ferrous Chloride | SAT | 170 | SAT | 200 |
| Fluoboric Acid | N/R | N/R | SAT | 165 |
| Fluosilicic Acid | N/R | N/R | SAT | 70 |
| Formaldehyde | 50 | 75 | 50 | 100 |
| Formic Acid | N/R | N/R | 50 | 100 |
| Gasoline | 100 | 80 | 100 | 150 |
| Glucose | 100 | 170 | 100 | 200 |
| Glycerine | 100 | 150 | 100 | 200 |
| Heptane | 100 | 110 | 100 | 200 |
| Hexane | 100 | 90 | 100 | 130 |
| Hydrobromic Acid | 50 | 120 | 50 | 120 |
| Hydrochloric Acid | 10 | 150 | 10 | 200 |
| Hydrochloric Acid | 20 | 140 | 20 | 190 |
| Hydrochloric Acid | 37 | 75 | 37 | 95 |
| Hydrochloric Acid | N/R | N/R | 15 | 80 |
| Hydrogen Bromide, Dry | 100 | 190 | 100 | 200 |

—: No Information Available
N/R: Not Recommended
SAT: Saturated Solution
FUM: Fumes



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# Corrosion Guide *(continued)*



## Non-Metallic Cable Tray

| CHEMICAL ENVIRONMENT | POLYESTER MAX WT. % | POLYESTER MAX OPER. TEMP °F | VINYLESTER MAX WT. % | VINYLESTER MAX OPER. TEMP °F |
|---|---|---|---|---|
| Hydrogen Bromide, Wet | 100 | 75 | 100 | 130 |
| Hydrogen Chloride | — | 120 | — | 200 |
| Hydrogen Peroxide | 5 | 100 | 30 | 100 |
| Hydrogen Sulfide, Dry | 100 | 170 | 100 | 210 |
| Hydrogen Sulfide, Wet | 100 | 170 | 100 | 210 |
| Hypochlorous Acid | 20 | 80 | 20 | 150 |
| Isopropyl Alcohol | N/R | N/R | 15 | 80 |
| Kerosene | 100 | 140 | 100 | 80 |
| Lactic Acid | SAT | 170 | SAT | 200 |
| Lead Acetate | SAT | 170 | SAT | 200 |
| Lead Chloride | SAT | 140 | SAT | 200 |
| Lead Nitrate | SAT | — | SAT | 200 |
| Linseed Oil | 100 | 150 | 100 | 190 |
| Lithium Chloride | SAT | 150 | SAT | 190 |
| Magnesium Carbonate | SAT | 140 | SAT | 170 |
| Magnesium Chloride | SAT | 170 | SAT | 200 |
| Magnesium Hydroxide | SAT | 150 | SAT | 190 |
| Magnesium Nitrate | SAT | 140 | SAT | 180 |
| Magnesium Sulfate | SAT | 170 | SAT | 190 |
| Mercuric Chloride | SAT | 150 | SAT | 190 |
| Mercurous Chloride | SAT | 140 | SAT | 180 |
| Methyl Ethyl ketone | N/R | N/R | N/R | N/R |
| Mineral Oils | 100 | 170 | 100 | 200 |
| Monochlorobenzene | N/R | N/R | N/R | N/R |
| Naphtha | 100 | 140 | 100 | 170 |
| Nickel Chloride | SAT | 170 | SAT | 200 |
| Nickel Nitrate | SAT | 170 | SAT | 200 |
| Nickel Sulfate | SAT | 170 | SAT | 200 |
| Nitric Acid | 5 | 140 | 5 | 150 |
| Nitric Acid | 20 | 70 | 20 | 100 |
| Oleic Acid | 100 | 170 | 100 | 90 |
| Oxalic Acid | ALL | 75 | ALL | 120 |
| Paper Mill Liquors | — | 100 | — | 120 |
| Perchlorethylene | 100 | N/R | 100 | N/R |
| Perchloric Acid | N/R | N/R | 10 | 150 |
| Perchloric Acid | N/R | N/R | 30 | 80 |
| Phosphoric Acid | 10 | 160 | 10 | 200 |
| Phosphoric Acid | 100 | 120 | 100 | 200 |
| Potassium Alum. Sulfate | SAT | 170 | SAT | 200 |
| Potassium Bicarbonate | 50 | 80 | 50 | 140 |
| Potassium Bichromate | SAT | 170 | SAT | 200 |
| Potassium Carbonate | 10 | N/R | 10 | 120 |
| Potassium Chloride | SAT | 170 | SAT | 200 |

| CHEMICAL ENVIRONMENT | POLYESTER MAX WT. % | POLYESTER MAX OPER. TEMP °F | VINYLESTER MAX WT. % | VINYLESTER MAX OPER. TEMP °F |
|---|---|---|---|---|
| Potassium Hydroxide | N/R | N/R | 25 | 150 |
| Potassium Nitrate | SAT | 170 | SAT | 200 |
| Potassium Permanganate | 100 | 80 | 100 | 210 |
| Potassium Sulfate | SAT | 170 | SAT | 200 |
| Propylene Glycol | ALL | 170 | ALL | 200 |
| Phthalic Acid | — | — | SAT | 200 |
| Sodium Acetate | SAT | 160 | SAT | 200 |
| Sodium Benzoate | SAT | 170 | SAT | 200 |
| Sodium Bicarbonate | SAT | 160 | SAT | 175 |
| Sodium Bisulfate | ALL | 170 | ALL | 200 |
| Sodium Bromide | ALL | 170 | ALL | 200 |
| Sodium Carbonate | 10 | 80 | 35 | 160 |
| Sodium Chloride | SAT | 170 | SAT | 200 |
| Sodium Cyanide | SAT | 170 | SAT | 200 |
| Sodium Hydroxide | N/R | N/R | 50 | 150 |
| Sodium Hydroxide | N/R | N/R | 25 | 80 |
| Sodium Hypochloride | N/R | N/R | 10 | 150 |
| Sodium Monophosphate | SAT | 170 | SAT | 200 |
| Sodium Nitrate | SAT | 170 | SAT | 200 |
| Sodium Sulfate | SAT | 170 | SAT | 200 |
| Sodium Thiosulfate | ALL | 100 | ALL | 120 |
| Stannic Chloride | SAT | 160 | SAT | 190 |
| Styrene | N/R | N/R | N/R | N/R |
| Sulfated Detergent | 0/50 | 170 | 0/50 | 200 |
| Sulfur Dioxide | 100 | 80 | 100 | 200 |
| Sulfur Trioxide | 100 | 80 | 100 | 200 |
| Sulfuric Acid | 93 | N/R | 93 | N/R |
| Sulfuric Acid | 50 | N/R | 50 | 180 |
| Sulfuric Acid | 25 | 75 | 25 | 190 |
| Sulfurous Acid | SAT | 80 | N/R | N/R |
| Tartaric Acid | SAT | 170 | SAT | 200 |
| Tetrachloroethylene | N/R | N/R | FUM | 75 |
| Toluene | N/R | N/R | N/R | N/R |
| Trisodium Phosphate | N/R | N/R | SAT | 175 |
| Urea | SAT | 130 | SAT | 140 |
| Vinegar | 100 | 170 | 100 | 200 |
| Water, Distilled | 100 | 170 | 100 | 190 |
| Water, Tap | 100 | 170 | 100 | 190 |
| Water, Sea | SAT | 170 | SAT | 190 |
| Xylene | N/R | N/R | N/R | N/R |
| Zinc Chloride | SAT | 170 | SAT | 200 |
| Zinc Nitrate | SAT | 170 | SAT | 200 |
| Zinc Sulfate | SAT | 170 | SAT | 200 |

—: No Information Available
N/R: Not Recommended
SAT: Saturated Solution
FUM: Fumes

# Non-Metallic Cable Tray CSA and NEMA Loading Classes

## Loading

### Select the Tray Class/Load Capacity

The standard classes of cable trays, as related to their maximum design loads and to the associated design support spacing based on a simple beam span requirement, shall be designated in accordance with Table 1.

Please note the load ratings in Table 1 are those most commonly used. Other load ratings are acceptable.

**Table 1 Load/Span Class Designations**

| LOAD | | SPAN, M (FT) | | | | |
|---|---|---|---|---|---|---|
| KG/M | (LB/FT) | 2.4 (8) | 3.0 (10) | 3.7 (12) | 4.9 (16) | 6.0 (20) |
| **37** | **(25)** | — | A | — | — | — |
| **67** | **(45)** | — | — | — | — | D |
| **74** | **(50)** | 8A | — | 12A | 16A | 20A |
| **97** | **(65)** | — | C | — | — | — |
| **112** | **(75)** | 8B | — | 12B | 16B | E or 20B |
| **149** | **(100)** | 8C | — | 12C | 16C | 20C |
| **179** | **(120)** | — | D | — | — | — |
| **299** | **(200)** | — | E | — | — | — |

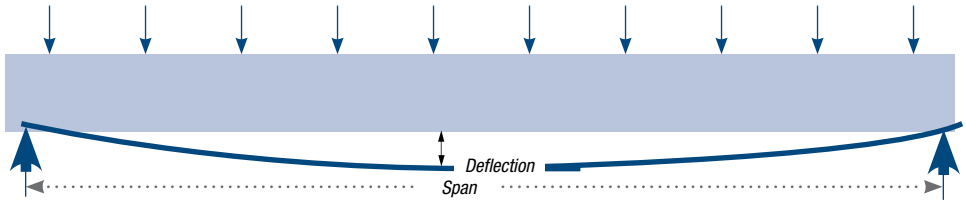



**Table 2 Conventional CSA Load Designations**

| DESIGNATION | KG/M (LB/FT) |
|---|---|
| **A** | 37 (25) |
| **C** | 97 (65) |
| **D** | 179 (120) |
| **E** | 299 (200) |

**Table 3 Traditional NEMA Designations**

| DESIGNATION | KG/M (LB/FT) | DESIGNATION | KG/M (LB/FT) | DESIGNATION | KG/M (LB/FT) | DESIGNATION | KG/M (LB/FT) |
|---|---|---|---|---|---|---|---|
| **8A** | 64 (50) | **12A** | 74 (50) | **16A** | 74 (50) | **20A** | 74 (50) |
| **8B** | 112 (75) | **12B** | 112 (75) | **16B** | 112 (75) | **20B** | 112 (75) |
| **8C** | 149 (100) | **12C** | 149 (100) | **16C** | 149 (100) | **20C** | 149 (100) |



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*Technical Information*

# Non-Metallic Cable Tray Loading



## Loading Capacity

Strength properties of reinforced plastics are reduced when continuously exposed to elevated temperatures. Working loads shall be reduced based on the following:

**Cable Loads** The cable load is the total weight, expressed in lb./ft., of all the cables that will be placed in the cable tray.

**Snow Loads** Depending on the area, snowfall could indicate an additional design load. If snowfall is a factor and the tray has a solid cover in outdoor installations, a minimum load of 5 lb. per square foot should be used.

**Ice Loads** If a cable tray system is subject to icing conditions, usually only the top surface or cover and the windward side will be coated with any significant amount. It is generally assumed that ice weighs 57 lb. per cubic foot.

**Wind Loads** All outdoor cable tray installations should factor in wind loads, especially the pressure exerted on siderails of ladder trays. There have also been instances of strong winds lifting covers off trays, which can be minimized with the use of wraparound cover clamps.

## Concentrated Loads

A concentrated static load is not included in Table 1 (page 8). Some user applications may require that a given concentrated static load be imposed over and above the working load.

Such a concentrated static load represents a static weight applied on the centerline of the tray at midspan. When so specified, the concentrated static load may be converted to an equivalent uniform load (We) in kilograms/metre (pounds/linear foot), using the following formula, and added to the static weight of cable in the tray:

$$W_e = \frac{2 \times (\text{concentrated static load, kg (lb.)})}{\text{Span length, m (ft.)}}$$

This combined load may be used to select a suitable load/span designation. If the combined load exceeds the working load shown on **pages B-388–B-392**, the manufacturer should be consulted.

## Effect Of Temperature

Strength properties of reinforced plastics are reduced when continuously exposed to elevated temperatures. Working loads shall be reduced based on the following:

| TEMPERATURE | | APPROXIMATE PERCENT OF STRENGTH |
|---|---|---|
| °C | (°F) | |
| 23.8 | (75) | 100 |
| 37.7 | (100) | 90 |
| 51.6 | (125) | 78 |
| 65.5 | (150) | 68 |
| 79.4 | (175) | 60 |
| 93.3 | (200) | 52 |

*NEMA Standard 8-10-1986*
*If unusual temperature conditions exist, the manufacturer should be consulted.*

## Technical Information

# Non-Metallic Cable Tray Thermal Contraction and Expansion

It is important that thermal contraction and expansion be considered when installing cable tray systems. The length of the straight cable tray runs and the temperature differential govern the number of expansion splice plates required (see Figure 1 below). The cable tray should be anchored at the support nearest to its midpoint between the expansion splice plates and secured by expansion guides at all other support locations (see Figure 2). The cable tray should be permitted longitudinal movement in both directions from that fixed point.

Accurate gap setting at the time of installation is necessary for the proper operation of the expansion splice plates. The following procedure should assist the installer in determining the correct gap: (see Figure 3)

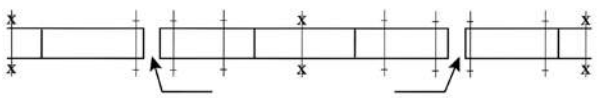
1. **Plot the highest expected tray temperature on the maximum temperature line.**
2. **Plot the lowest expected tray temperature on the minimum temperature.**
3. **Draw a line between the maximum and minimum points.**
4. **Plot the tray temperature at the time of installation to determine the gap setting.**

**Figure 1 — Expansion or Contraction for Various Temperature Differences**

| TEMPERATURE | | MAX. DISTANCE BETWEEN EXPANSION CONNECTOR* FOR 1" EXPANSION | | MAX. DISTANCE BETWEEN EXPANSION CONNECTOR FOR ⅝" EXPANSION | |
|---|---|---|---|---|---|
| °C | (°F) | METRES | (FEET) | METRES | (FEET) |
| -3,9 | (25) | 203,3 | (667) | 127,1 | (417) |
| 10,0 | (50) | 101,5 | (333) | 63,3 | (208) |
| 23,8 | (75) | 67,6 | (222) | 42,3 | (139) |
| 37,7 | (100) | 50,9 | (167) | 31,7 | (104) |
| 51,6 | (125) | 40,5 | (133) | 25,2 | (83) |
| 65,5 | (150) | 33,8 | (111) | 21,0 | (69) |
| 79,4 | (175) | 28,9 | (95) | 17,9 | (59) |

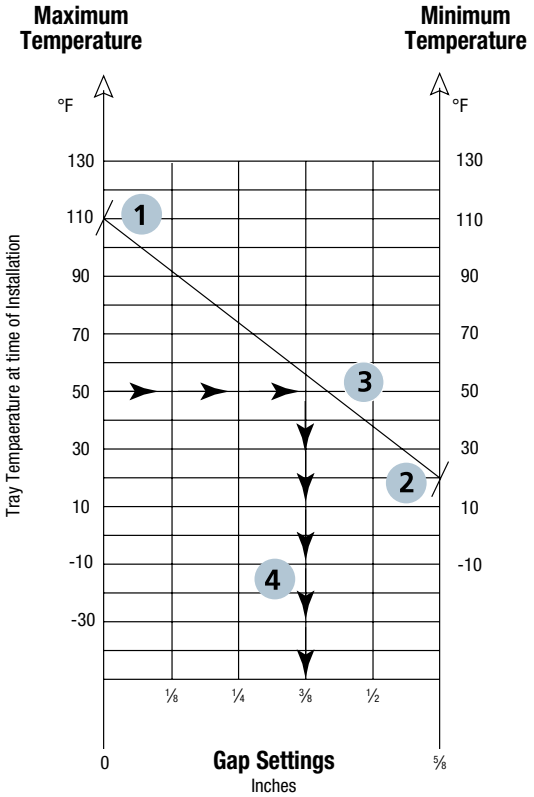
*Gap set and hold down/guide location, see installation instruction above.*
**1 slotted hole in each expansion connector allow 5/8 total expansion or contraction.*

**Figure 2 — Typical Cable Tray Installation**



X : Denotes hold-down clamp (anchor) at support.
- : Denotes expansion guide/clamp at support.

**Figure 3 — Proper Gap Settings**





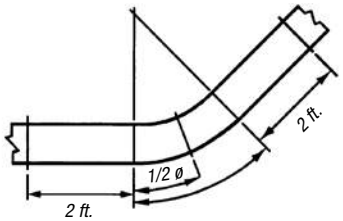

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# Non-Metallic Cable Tray Installation Guidelines

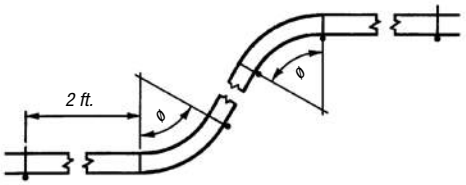
**Installation of Thomas & Betts Non-Metallic Cable Tray should be made in accordance with the standards set by NEMA VE2-2000 Publication and CSA Standards.**

- Always observe common safety practices when assembling tray and fittings. Installations generally require some field cutting. Dust created during fabrication presents no serious health hazard, but skin irritation may be experienced by some workers.
- Operators of saws and drills should wear masks, long-sleeve shirts or coveralls.
- Fabrication with Non-Metallic Cable Tray is relatively easy and comparable to working with wood. Ordinary hand tools may be used in most cases.
- Avoid excessive pressure when sawing or drilling. Too much force can rapidly dull tools and also produce excessive heat which softens the bonding resin in the Non-Metallic Cable Tray resulting in a ragged edge rather than a cleancut edge.
- Field cutting is simple and can be accomplished with a circular power saw with an abrasive cut-off wheel (masonry type) or hack saw (24 to 32 teeth per inch).
- Drill non-metallic as you would drill hardwood. Standard twist drills are more than adequate.
- Any surface that has been drilled, cut, sanded or otherwise broken, **must be sealed** with a compatible resin.
- Carbide tipped saw blades and drill bits are recommended when cutting large quantities.
- Support the Non-metallic Cable Tray material firmly during cutting operations to keep material from shifting which may cause chipping at the cut edge.
- Each tray section length should be equal to or greater than the support span.
- When possible, the splice should be located at quarter span.
- Fittings should be supported as per NEMA VE2-2000 Section 4.4.

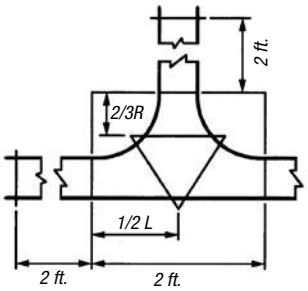
## Non-Metallic Cable Tray Support Locations For Fittings



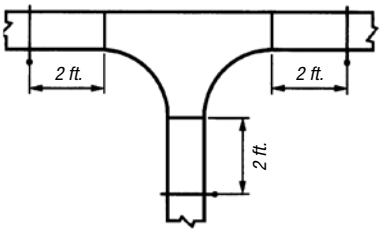
Horizontal Elbows



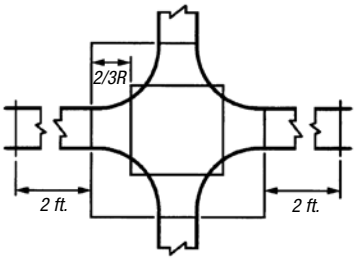
Vertical Elbows



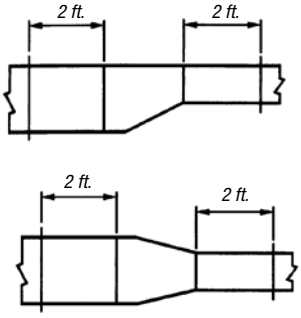
Horizontal Tee



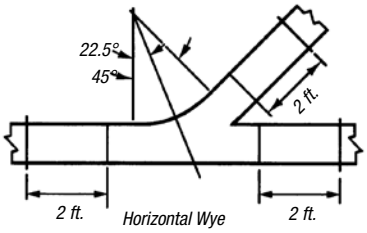
Horizontal Tee



Horizontal Cross



Horizontal Reducers



Horizontal Wye

*Note: ø = 30°, 45°, 60°, 90° (degree of fitting)*

# Non-Metallic Cable Tray Sample Recommended Specifications

**Cable Tray System**

- Cable Tray System shall be made of straight sections, fittings and accessories as defined in the latest CSA/NEMA standards publication.

**Cable Tray Design**

- Straight section structural elements; side rails, rungs and splice plates shall be pultruded from glass fiber reinforced polyester or vinylester resin.
- Pultruded shapes shall be constructed with a surface veil to ensure a resin-rich and ultraviolet resistant surface.
- Pultruded shapes shall meet ASTM E-84, Class 1 flame rating and self-extinguishing requirements of ASTM D-635.

**Construction**

- Straight section lengths will be 120 inches (10 ft.) or 240 inches (20 ft.) standard.
- Side rails will be inward “C” configuration and be predrilled to accept splice plates.
- Overall heights shall be 6", 4" or 3" respectively.
- Loading depths for cable tray systems shall be 5", 3" or 2" as per CSA/NEMA tolerances
- Loading classifications arid test specimens shall be per CSA/NEMA.

**Fittings**

- Molded fittings shall be formed with a minimum 3" tangent following the radius.
- 3" or 5" loading depth systems shall have 90° and 45° molded fittings in 12" or 24" radius.
- All fittings not included in above statement should be of mitered construction.
- Width (usable inside tray width) shall be 6", 9", 12", 18", 24", 30", 36".
- Outside width shall not exceed inside by more than a total of 2".
- Straight and expansion splice plates will be of stainless steel or fiberglass design with an eight-bolt pattern in 5" fill systems and four-bolt pattern in 3" and 2" fill systems.
- Dimension tolerances will be per CSA/NEMA.
- Cable tray must have integral connection between side rails and rungs consisting of non-metallic mechanical fasteners and adhesive bonding.

**Manufacture**

- All manufacturing practices will be in accordance with CSA/NEMA.
- Cable trays shall be by Thomas & Betts, or approved CSA/NEMA member.



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Ty-Rap®

# Ty-Rap® High-Performance Cable Ties, Tools & Accessories




**In this section...**



## Ty-Rap® High-Performance Cable Ties, Tools & Accessories


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Engineered-Performance Material Cable Ties..... C-5–C-11
Color Coding Cable Ties..... C-12
Identification Tags, Cable Ties and Accessories ..... C-13–C-14
Mounting Bases, Cable Ties and Accessories..... C-15–C-24
Safety, Reusable and Double-Loop Cable Ties ..... C-25
Messenger and Lashing Ties and Straps..... C-26–C-27
Deltec® Cable Tie and Support System ..... C-28–C-29
Ty-Rap® High-Performance Stainless Steel Cable Ties... C-30–C-43
Hook-and-Loop Fasteners..... C-44–C-45
Ty-Rap® Installation Tools..... C-46–C-50
Ty-Rap® Wire Management Clips, Clamps, Spiral Wrap and More..... C-51–C-60


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# Choose Genuine Ty-Rap® High-Performance Cable Ties for Quality, Performance and Innovation.

**The Original Cable Tie®**
*Invented in 1958*

**Oval, Low-Profile Head** gives a professional, quality look to wire bundling projects. The classic-shaped head is designed to prevent snags on uneven surfaces and is easier to pull through bulkheads. There are no sharp edges, so these ties are also easier on the installer's hands.

**"The Grip of Steel®" Non-Hydroscopic Stainless Steel Locking Device** ensures maximum performance, strength and life.



The **Turned-up Tail** makes the tie easier to pick up off a flat surface and provides the ability to orient the cable tie for easy assembly without looking down — perfect for blind or repetitive applications.

**Versatile Nylon 6.6 Material** provides high strength and a wide temperature range. Ty-Rap® High-Performance Cable Ties are also available in a wide range of other materials for a variety of extreme environments.

**No-Slip Tail** provides extra grip during tensioning.



**Smooth, Notchless Body** reduces stress concentration points under tension, making the tie stronger and increasing life expectancy, especially in changing environments.

**Ribbed and Stippled Body** grips the bundle and prevents slippage.



For a whole bundle of reasons, trust only Genuine **Ty-Rap® High-Performance Cable Ties** by Thomas & Betts in your next wiring installation.

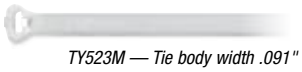


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# Ty-Rap® High-Performance Nylon Cable Ties

## Ty-Rap® 6.6 Nylon Cable Ties — Natural

- Suitable for air handling (plenum) applications



*TY523M — Tie body width .091"*



*TY524M — Tie body width .140"*



*TY525M — Tie body width .187"*



*TY5272M — Tie body width .270"*

*Select the best material for your application.*

*See **pages C-9–C-11** for a Material Selection Guide.*

| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | BODY WIDTH IN./MM | LENGTH IN./MM | MAX. WIRE BUNDLE DIA. IN./MM | MILITARY STANDARD PART NO. | TENSILE STRENGTH LBS./N | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| TY523M | TY23M | .09/2.29 | 3.62/91.95 | .63/16.00 | MS3367-4 | 18/80.07 | 100 | 1,000 |
| TY52315M | TYB2315M | .09/2.29 | 7.00/177.80 | 1.50/38.10 | — | 18/80.07 | 100 | 1,000 |
| TY5232M | TY232M | .09/2.29 | 8.00/203.20 | 2.00/50.80 | — | 18/80.07 | 100 | 1,000 |
| TY5234M | TY234M | .09/2.29 | 14.00/355.60 | 4.00/101.60 | — | 18/80.07 | 100 | 1,000 |
| TY524M | TY24M | .14/3.56 | 5.50/139.70 | 1.13/28.70 | MS3367-5 | 40/177.90 | 100 | 1,000 |
| TY5242M | TY242M | .14/3.56 | 8.19/208.03 | 2.00/50.80 | — | 40/177.90 | 100 | 1,000 |
| TY526M | TY26M | .14/3.56 | 11.10/281.94 | 3.00/76.20 | — | 30/133.40 | 100 | 1,000 |
| TY5244M | TY244M | .14/3.56 | 14.50/368.30 | 4.00/101.60 | — | 30/133.40 | 100 | 1,000 |
| TY525M | TY25M | .19/4.83 | 7.31/185.67 | 1.75/44.45 | MS3367-1 | 50/222.40 | 100 | 1,000 |
| TY5253M | TY253M | .19/4.83 | 11.60/294.64 | 3.00/76.20 | MS3367-7 | 50/222.40 | 100 | 1,000 |
| TY528M | TY28M | .19/4.83 | 14.20/360.68 | 4.00/101.60 | MS3367-2 | 50/222.40 | 100 | 1,000 |
| TY5272M† | TY272M† | .27/6.86 | 8.75/222.250 | 2.00/50.80 | — | 120/533.80 | 50 | 500 |
| TY527M† | TY27M† | .27/6.86 | 13.40/340.36 | 3.50/88.90 | MS3367-3 | 120/533.80 | 50 | 500 |
| TY5275M | TY275M | .27/6.86 | 18.00/457.20 | 5.00/127.00 | — | 120/533.80 | 50 | 500 |
| TY5277M | TY277M | .27/6.86 | 24.30/617.22 | 7.00/177.80 | — | 120/533.80 | 50 | 500 |
| TY529M | TY29M | .27/6.86 | 30.00/762.00 | 9.00/228.60 | MS3367-6 | 120/533.80 | 50 | 500 |
| TY53510M† | — | .32/8.13 | 35.00/889.00 | 10.00/254.00 | — | 175/778.40 | 50 | — |
| TY54513M† | — | .32/8.13 | 45.00/1,143.00 | 13.00/330.20 | — | 175/778.40 | 50 | — |

*Cable ties made from natural nylon 6.6 are excellent performers in most applications.*

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

† UL Recognized Models

- *UL® Listed Natural 6.6 Nylon Cable Ties are suitable for use in air handling spaces (plenums) in accordance with Section 300.22 (C) & (D) of the National Electrical Code®.*
- *UL File No. E49405*
- *Installation tools available on **pp. C-46–C-48**.*

## Air handling (plenum) and UV colors!

## Ty-Rap® UV-Resistant 6.6 Nylon Cable Ties — Color Assortment

- Suitable for air handling (plenum) applications

ULTRAVIOLET RESISTANT



| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | DESCRIPTION | LENGTH IN./MM | TENSILE STRENGTH LBS./N | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|
| TY525M-35 | TY25M-35 | Air Handling (plenum) Maroon | 7.31/185.67 | 50/222.40 | 100 | 1,000 |
| TY525M-CLRS | — | Multi-Colored, UV-Stabilized Nylon, (10 each of standard 10 colors)* | 7.31/185.67 | 50/222.40 | 100 | — |
| — | TY25M-X | Black, UV-Stabilized Nylon | 7.31/185.67 | 50/222.40 | — | 1,000 |
| — | TY25M-1 | Brown, UV-Stabilized Nylon | 7.31/185.67 | 50/222.40 | — | 1,000 |
| TY525M-2 | TY25M-2 | Red, UV-Stabilized Nylon | 7.31/185.67 | 50/222.40 | 100 | 1,000 |
| — | TY25M-3 | Orange, UV-Stabilized Nylon | 7.31/185.67 | 50/222.40 | — | 1,000 |
| — | TY25M-4 | Yellow, UV-Stabilized Nylon | 7.31/85.67 | 50/222.40 | — | 1,000 |
| TY525M-5 | TY25M-5 | Green, UV-Stabilized Nylon | 7.31/185.67 | 50/222.40 | 100 | 1,000 |
| TY525M-6 | TY25M-6 | Blue, UV-Stabilized Nylon | 7.31/185.67 | 50/222.40 | 100 | 1,000 |
| — | TY25M-7 | Purple, UV-Stabilized Nylon | 7.31/185.67 | 50/222.40 | — | 1,000 |
| — | TY25M-8 | Gray, UV-Stabilized Nylon | 7.31/185.67 | 50/222.40 | — | 1,000 |
| — | TY25M-9 | White, UV-Stabilized Nylon | 7.31/185.67 | 50/222.40 | — | 1,000 |
| — | TY25M-22 | Beige, UV-Stabilized Nylon | 7.31/185.67 | 50/222.40 | — | 1,000 |

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

*Suitable for use in air handling spaces in accordance with Section 300.22 (C) & (D) of the National Electrical Code®, except for TY25M-X (black).*

** 100 standard ties in black, brown, red, orange, yellow, green, blue, purple, gray and white (10 each)*

*Recommended tooling — ERG-50, WT1-TB*

### *How to Order Colored Ty-Rap® Cable Ties and Accessories*

| COLOR | SUFFIX NO. | COLOR | SUFFIX NO. | COLOR | SUFFIX NO. | COLOR | SUFFIX NO. | COLOR | SUFFIX NO. |
|---|---|---|---|---|---|---|---|---|---|
| Black | X | Orange | 3 | Blue | 6 | White | 9 | Fluor. Orange | 53 |
| Brown | 1 | Yellow | 4 | Purple | 7 | Beige | 22 | Fluor. Yellow | 54 |
| Red | 2 | Green | 5 | Gray | 8 | Maroon | 35 | Fluor. Green | 55 |
| | | | | | | | | Fluor. Pink | 59 |

***Note:** The base catalog number for Ty-Rap® cable ties is for natural (non-colored) nylon without the UV-stabilizing additive, which is not suitable for outdoor use. For colored UV-stabilized nylon Ty-Rap® cable ties, add the following suffix numbers to the base catalog numbers. For example, TY25M is natural (non-colored) nylon for indoor use only, while TY25M-2 is red UV-stabilized nylon for indoor or outdoor use. Consult customer service for ordering information.*

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*

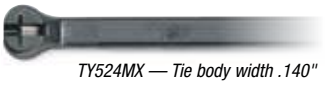
# Ty-Rap® High-Performance Nylon Cable Ties

## Ty-Rap® 6.6 Nylon Cable Ties — Weather-Resistant Black

ULTRAVIOLET RESISTANT



*TY523MX — Tie body width .091"*



*TY524MX — Tie body width .140"*



*TY525MX — Tie body width .187"*



*TY5272MX — Tie body width .270"*

| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | BODY WIDTH IN./MM | LENGTH IN./MM | MAX. WIRE BUNDLE DIA. IN./MM | MILITARY STANDARD PART NO. | TENSILE STRENGTH LBS./N | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| TY523MX | TY23MX | .09/2.29 | 3.62/91.95 | .63/16.00 | MS3367-4 | 18/80.07 | 100 | 1,000 |
| TY52315MX | TYB2315MX | .09/2.29 | 7.00/177.80 | 1.50/38.10 | — | 18/80.07 | 100 | 1,000 |
| TY5232MX | TY232MX | .09/2.29 | 8.00/203.20 | 2.00/50.80 | — | 18/80.07 | 100 | 1,000 |
| TY5234MX | TY234MX | .09/2.29 | 14.00/355.60 | 4.00/101.60 | — | 18/80.07 | 100 | 1,000 |
| TY524MX | TY24MX | .14/3.56 | 5.50/139.70 | 1.13/28.70 | MS3367-5 | 40/177.90 | 100 | 1,000 |
| TY5242MX | TY242MX | .14/3.56 | 8.19/208.03 | 2.00/50.80 | — | 40/177.90 | 100 | 1,000 |
| TY526MX | TY26MX | .14/3.56 | 11.10/281.94 | 3.00/76.20 | — | 30/133.40 | 100 | 1,000 |
| TY5244MX | TY244MX | .14/3.56 | 14.50/368.30 | 4.00/101.60 | — | 30/133.40 | 100 | 1,000 |
| TY525MX | TY25MX | .19/4.83 | 7.31/185.67 | 1.75/44.45 | MS3367-1 | 50/222.40 | 100 | 1,000 |
| TY5253MX | TY253MX | .19/4.83 | 11.60/294.64 | 3.00/76.20 | MS3367-7 | 50/222.40 | 100 | 1,000 |
| TY528MX | TY28MX | .19/4.83 | 14.20/360.68 | 4.00/101.60 | MS3367-2 | 50/222.40 | 100 | 1,000 |
| TY5272MX† | TY272MX† | .27/6.86 | 8.75/222.250 | 2.00/50.80 | — | 120/533.80 | 50 | 500 |
| TY527MX† | TY27MX† | .27/6.86 | 13.40/340.36 | 3.50/88.90 | MS3367-3 | 120/533.80 | 50 | 500 |
| TY5275MX | TY275MX | .27/6.86 | 18.00/457.20 | 5.00/127.00 | — | 120/533.80 | 50 | 500 |
| TY5277MX | TY277MX | .27/6.86 | 24.30/617.22 | 7.00/177.80 | — | 120/533.80 | 50 | 500 |
| TY529MX* | TY29MX* | .27/6.86 | 30.00/762.00 | 9.00/228.60 | MS3367-6 | 120/533.80 | 50 | 500 |
| TY53510MX† | — | .32/8.13 | 35.00/889.00 | 10.00/254.00 | — | 175/778.40 | 50 | — |
| TY54513MX† | — | .32/8.13 | 45.00/1,143.00 | 13.00/330.20 | — | 175/778.40 | 50 | — |

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

** For military compliance of weather-resistant black 120-lb. ties, replace suffix X with O (i.e., TY27M-0).*

*† Not Listed or Recognized Models.*

- *UL® File No. E49405*
- *Installation tools available on* ***pp. C-46–C-48****.*

# Increase efficiency!

## Ty-Rap Tote® Cable Tie Dispensers

*Attach to your belt or almost any other convenient location via a built-in belt clip and chrome steel loop.*

*Includes 100 genuine Ty-Rap® cable ties.*




*Quickly refill your Ty-Rap Tote® through the hook-and-loop-secured flap.*

*Easily remove the tie you need through the reinforced, diamond-shaped cut-out while the Ty-Rap Tote® securely holds the rest.*

*Keep cable ties clean and organized inside the durable, lightweight polyester exterior and tough vinyl interior.*




| STD PKG. CAT. NO. | DESCRIPTION | STD. PKG. QTY. |
|---|---|---|
| TY-TOTE-25 | Ty-Rap Tote® 8" Cable Tie Dispenser (includes 1 pkg. TY525M) | 1 |
| TY-TOTE-23 | Ty-Rap Tote® 4" Cable Tie Dispenser (includes 1 pkg. TY523M) | 1 |
| TY-TOTE-28 | Ty-Rap Tote® 11"–14" Cable Tie Dispenser (includes 1 pkg. TY528M) | 1 |

*Order only genuine Ty-Rap® Cable Ties to refill your dispenser!*



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## Engineered-Performance Material Cable Ties

# Safety and decontamination.

# Ty-Rap® Detectable Ties

Ty-Rap® Detectable Cable Ties are made from standard nylon or polypropylene, and incorporate a unique compound detectable by metal detectors and x-ray equipment. Their bright blue color makes them easy to spot. The polypropylene version is buoyant, making it ideal for use in liquid-processing areas.

With Ty-Rap® Detectable Cable Ties, you have all of the advantages of the original Ty-Rap® Cable Tie, including a smooth body with an infinitely adjustable design, high-performance stainless steel locking device for a perfect fit and superior holding power — plus the peace of mind of knowing the integrity of your product is uncompromised.

Ty-Rap® Detectable Cable Ties are a contamination solution for food and beverage processing plants and may aid companies in meeting the US Food and Drug Administration (FDA) Hazard Analysis of Critical Control Points (HACCP) safety standards and the European Union (EU) hygiene monitoring regulations.



*See **p. C-46–C-48** for cable tie installation tools.*

### Features

- Detectable by metal detectors set at minimum 1.5mm ferrous sphere
- Detectable by x-ray equipment
- Bright blue color allows easy visual detection, especially on white conveyor systems
- Buoyant Polypropylene version available for use in liquid-processing applications

### Typical Applications

- Food and beverage processing
- Pharmaceutical production
- Chemical and compounds manufacturing
- Tobacco processing
- Tire and airbag manufacturing
- Any other industry sensitive to contamination and using detection equipment




| STD. PKG. CAT. NO. | TIE LENGTH IN./MM | BODY WIDTH IN./MM | MAX. WIRE BUNDLE IN./MM | TENSILE STRENGTH LBS./N | BASE MATERIAL | STD. PKG. QTY. |
|---|---|---|---|---|---|---|
| ***Nylon 6.6*** | | | | | | |
| **TY523M-NDT** | 3.62/91.90 | .09/2.36 | .63/15.90 | 18/80 | Nylon | 100 |
| **TY524M-NDT** | 5.50/139.70 | .14/3.56 | 1.13/28.70 | 40/178 | Nylon | 100 |
| **TY525M-NDT** | 7.31/186.00 | .19/4.70 | 1.75/44.40 | 50/220 | Nylon | 100 |
| **TY527M-NDT** | 13.40/340.00 | .27/6.86 | 3.50/89.00 | 120/540 | Nylon | 50 |
| **TY528M-NDT** | 14.20/361.00 | .19/4.70 | 4.00/102.00 | 50/220 | Nylon | 100 |
| ***Polypropylene*** | | | | | | |
| **TY523M-PDT** | 3.62/91.90 | .09/2.36 | .63/15.90 | 18/80 | Polypropylene | 100 |
| **TY525M-PDT** | 7.31/186.00 | .19/4.70 | 1.75/44.40 | 30/135 | Polypropylene | 100 |
| **TY527M-PDT** | 13.40/340.00 | .27/6.86 | 3.50/89.00 | 60/267 | Polypropylene | 50 |
| **TY528M-PDT** | 14.20/361.00 | .19/4.75 | 4.00/102.00 | 30/135 | Polypropylene | 100 |

**Material —** Polyamide (Nylon 6.6) or Polypropylene, for use in temperatures ranging from -40° F to 185° F (-40° C to 85° C)

**Color —** Blue (for easy visual detection)

# Engineered-Performance Material Cable Ties

## Extra high temperatures!

### Ty-Rap® Extra High-Temperature 4.6 Nylon Ties



For use in temperatures ranging from -40° F to 302° F (-40° to 150° C).

**Color —** Natural (Olive)

- Non-hydroscopic stainless steel barb will not weaken or wear out after years of environmental stress
- Smooth, notchless body reduces stress, increasing life expectancy over standard notched, one-piece cable ties
- Quicker to install and less expensive than metallic fasteners, lacing cord or tape
- Ideal for Industrial applications including metal processing, paper mills, lighting and commercial construction markets with high temperature environments up to 302° F (150° C)
- Provides a smooth, low-profile look and unlimited tensioning range for a perfect fit
- Features an oval head on every original Ty-Rap® Cable Tie

| BULK PKG. CAT. NO. | LENGTH IN./MM | TENSILE STRENGTH LBS./N | BULK PKG. QTY. |
|---|---|---|---|
| TYHT23M | 3.62/91.95 | 18/80.07 | 1,000 |
| TYHT25M | 7.31/185.67 | 50/222.40 | 1,000 |
| TYHT27M | 13.40/340.36 | 120/533.80 | 500 |
| TYHT28M | 14.20/360.68 | 50/222.40 | 1,000 |

## Engineered to withstand high temperatures!

### Ty-Rap® Heat-Stabilized Natural 6.6 Nylon Ties



For use in temperatures ranging from -40° F to 221° F (-40° C to 105° C).

Material meets ASTM D4066 PA121.

**Color —** Green Tint

| BULK PKG. CAT. NO. | WIDTH IN./MM | BODY LENGTH IN./MM | MAX. WIRE BUNDLE DIA. IN./MM | TENSILE STRENGTH LBS./N | BULK PKG. QTY. |
|---|---|---|---|---|---|
| TYH23M | .09/2.29 | 3.62/91.95 | .63/16.00 | 18/80.07 | 1,000 |
| TYH232M | .09/2.29 | 8.00/203.20 | 2.00/50.80 | 18/80.07 | 1,000 |
| TYH24M | .14/3.56 | 5.50/139.70 | 1.13/28.70 | 40/177.90 | 1,000 |
| TYH242M | .14/3.56 | 8.19/208.03 | 2.00/50.80 | 40/177.90 | 1,000 |
| TYH26M | .14/3.56 | 11.10/281.94 | 3.00/76.20 | 30/135 | 1,000 |
| TYH25M | .18/4.57 | 7.31/185.67 | 1.75/44.45 | 50/222.40 | 1,000 |
| TYH253M | .18/4.57 | 11.40/289.56 | 3.00/76.20 | 50/222.40 | 1,000 |
| TYH28M | .18/4.57 | 14.20/360.68 | 4.00/101.60 | 50/222.40 | 1,000 |
| TYH27M | .27/6.86 | 13.20/335.28 | 3.50/88.90 | 120/533.80 | 500 |
| TYH272M | .27/6.86 | 8.75/222.25 | 2.00/50.80 | 120/533.80 | 500 |
| TYH29M | .30/7.62 | 30.00/762.00 | 9.00/228.60 | 120/533.80 | 500 |

## Perfect for outdoor applications!

### Ty-Rap® Heat-Stabilized/ UV-Resistant Black 6.6 Nylon Ties



For use in temperatures ranging from -40° F to 221° F -40° C to 105° C

**Color —** Black

- Non-hydroscopic stainless steel barb will not weaken or wear out after years of environmental stress
- Smooth, notchless body reduces stress, increasing life expectancy over standard notched, one-piece cable ties
- Ideal for Industrial applications including lawn/garden/farming equipment, recreation vehicles and heavy equipment
- Can be placed in environments requiring heat stabilization and UV resistance
- Provides a smooth, low-profile look and unlimited tensioning range for a perfect fit
- Features an oval head on every original Ty-Rap® Cable Tie
- Quicker to install and less expensive than metallic fasteners, lacing cord or tape

| BULK PKG. CAT. NO. | LENGTH IN./MM | TENSILE STRENGTH LBS./N | BULK PKG. QTY. |
|---|---|---|---|
| TY23MX-A | 3.62/91.95 | 18/80.07 | 1,000 |
| TY24MX-A | 5.50/139.70 | 40/177.90 | 1,000 |
| TY25MX-A | 7.31/185.67 | 50/222.40 | 1,000 |
| TY28MX-A | 14.20/360.68 | 50/222.40 | 1,000 |
| TY27MX-A | 13.40/340.36 | 120/533.80 | 500 |



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## *Engineered-Performance Material Cable Ties*

# Resists acids, salts and bases.

## Ty-Rap® Weather-Resistant Polypropylene Ties

- Excellent resistance to chemical exposure
- Greater UV resistance
- Buoyant – will float to the surface of most liquids

**Color —** Black

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C)



| BULK PKG. CAT. NO. | WIDTH IN./MM | BODY LENGTH IN./MM | MAX. WIRE BUNDLE DIA. IN./MM | TENSILE STR. LBS./N | BULK PKG. QTY. |
|---|---|---|---|---|---|
| TYP23MX | .09/2.29 | 3.62/91.95 | .63/16.00 | 18/80.07 | 1,000 |
| TYP25MX | .18/4.57 | 7.31/185.67 | 1.75/44.45 | 30/133.40 | 1,000 |
| TYP28MX | .18/4.57 | 14.20/360.68 | 4.00/101.60 | 30/133.40 | 1,000 |
| TYP27MX | .27/6.86 | 13.20/335.28 | 3.50/88.90 | 60266.90 | 500 |

# Long life in UV and chemical environments.

## Ty-Rap® Weather-Resistant Nylon 12 Ties

This material provides very good resistance to ultraviolet light and chemical exposure. Nylon 12 is a lower, moisture-absorbing material than 6.6 nylon, and the effect of water on properties is much less.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

**Color —** Black



| STD. CAT. NO. | BULK CAT. NO. | BODY WIDTH IN./MM | LENGTH IN./MM | MAX. WIRE BUNDLE DIA. IN./MM | TENSILE STRENGTH LBS./N | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|
| TYC525MX | TYC25MX | .18/4.57 | 7.31/185.67 | 1.75/44.45 | 35/155.70 | 100 | 1,000 |
| — | TYC28MX | .18/4.57 | 14.20/360.68 | 4.00/101.60 | 35/155.70 | — | 1,000 |
| — | TYC272MX | .27/6.86 | 8.00/203.20 | 2.00/50.80 | 85/378.10 | — | 500 |
| TYC527MX | TYC27MX | .27/6.86 | 13.20/335.28 | 3.50/88.90 | 85/378.10 | 50 | 500 |
| — | TYC29MX | .30/7.62 | 30.00/762.00 | 9.00/228.60 | 85/378.10 | — | 500 |

# Engineered-Performance Material Cable Ties

## Perfect for passenger areas!

### Ty-Rap® Flame-Retardant 6.6 Nylon Ties

- Meets the UL94V-0 flammability rating
- Low smoke

**Color —** White

For use in temperatures ranging from -4° F to 149° F (-20° C to 65° C).



| BULK CAT. NO. | BODY WIDTH IN./MM | LENGTH IN./MM | MAX WIRE BUNDLE DIA. IN./MM | MARKING PAD SIZE IN./MM W X H | TENSILE STRENGTH LBS./N | BULK PKG. QTY. |
|---|---|---|---|---|---|---|
| TY23MFR | .09/2.29 | 3.62/91.95 | .63/16.00 | N/A | 18/80.07 | 1,000 |
| TY232MFR | .09/2.29 | 8.00/203.20 | 2.00/50.80 | N/A | 18/80.07 | 1,000 |
| TY24MFR | .14/3.56 | 5.50/139.70 | 1.13/28.70 | N/A | 40/177.90 | 1,000 |
| TY25MFR | .18/4.57 | 7.31/185.67 | 1.75/44.45 | N/A | 50/222.40 | 1,000 |
| TY28MFR | .18/4.57 | 14.20/360.68 | 4.00/101.60 | N/A | 50/222.40 | 1,000 |
| TY272MFR† | .27/6.86 | 8.00/203.20 | 2.00/50.80 | N/A | 120/533.80 | 500 |
| TY27MFR | .27/6.86 | 13.20/335.28 | 3.50/88.90 | N/A | 120/533.80 | 500 |
| TY53MFR | .09/2.29 | 4.00/101.60 | .63/16.00 | .81 x .36/20.57 x 9.1 | 18/80.07 | 500 |
| TY153MFR | .10/2.54 | 4.35/110.49 | .63/16.00 | .78 x 1/19.81 x 14.00 | 18/80.07 | 500 |

*† Not UL® Recognized Model.*

## Withstand even the *toughest* environments!

### Ty-Rap® Radiation-Resistant Fluoropolymer Ties

- High radiation resistance — 2 x $10^8$ Rads
- Extremely chemical resistant
- Meets flammability rating UL94V-0
- Long application life expectancy

**Color —** Aqua

For use in temperatures ranging from -76° F to 338° F (-60° C to 170° C)




| STD. CAT. NO. | BULK CAT. NO. | BODY WIDTH IN./MM | LENGTH IN./MM | MAX. WIRE BUNDLE DIA. IN./MM | TENSILE STRENGTH LBS./N | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|
| TYZ523M* | TYZ23M* | .09/2.29 | 3.62/91.95 | .63/16.00 | 18/80.07 | 100 | 1,000 |
| TYZ525M | TYZ25M | .18/4.57 | 7.31/185.67 | 1.75/44.45 | 50/222.40 | 100 | 1,000 |
| TYZ528M | TYZ28M | .18/4.57 | 14.19/360.43 | 4.00/101.60 | 50/222.40 | 100 | 1,000 |
| TYZ527M | TYZ27M | .27/6.86 | 13.38/339.85 | 3.50/88.90 | 120/533.80 | 50 | 100 |

**UL Listed*

## Perfect for low smoke-generation applications.

### Ty-Rap® Low-Smoke Fluoropolymer Ties

- Made of tough fluoropolymer material
- Use in air-handling spaces
- UL94V-0 flammability rating
- Low-smoke density

**Color —** Maroon

For use in temperatures ranging from -50° F to 284° F (-45° C to 140° C)




| STD. CAT. NO. | BULK CAT. NO. | BODY WIDTH IN./MM | LENGTH IN./MM | MAX. WIRE BUNDLE DIA. IN./MM | TENSILE STRENGTH LBS./N | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|
| TYV523M | TYV23M | .09/2.29 | 3.62/91.95 | .63/16.00 | 18/80.07 | 100 | 1,000 |
| TYV525M | TYV25M | .18/4.57 | 7.31/185.67 | 1.75/44.45 | 50/222.40 | 100 | 1,000 |



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## Engineered-Performance Material Cable Ties

# Select the cable ties you need for special environments!

Thomas & Betts offers Ty-Rap® cable ties and accessories in a wide variety of materials, each suited for specific environments. The purpose of this document is to assist you in choosing the best material for your particular application. The effects of weathering, flame, chemicals, extreme temperatures, and radiation on the different materials are clearly presented in the following tables to simplify this process. Once you have determined the most suitable material, you can choose from the wide variety of Ty-Rap® cable ties, identification ties, mounting bases, lashing ties, etc., offered by Thomas & Betts.

### General — How to use Table 1:

Table 1 simplifies the material selection process by giving the relative performance ratings of the materials offered by Thomas & Betts. For example, if your application is in an extremely cold environment, four materials will answer your need: 1. Radiation-resistant fluoropolymer, 2. Low-smoke fluoropolymer, 3. Nylon 12, 4. Stainless steel. Then, cost may be your next most important criteria, so out of those four options, nylon 12 would be the most cost effective. However, if tensile strength is important, then stainless steel would be the better choice.

Refer to Tables 2 and 3 for more detailed information regarding physical properties of the materials and chemical resistance of the materials respectively.

It is extremely difficult to provide data on all the possible combinations or conditions that can occur. This information is based on data provided by the manufacturers of the specific materials listed and is provided only as a general guide. No specific recommendation is intended. As each application may differ, cable tie samples should be tested in the intended application by the user to determine suitability.

**Table 1 — Available Materials 5 = Most Suitable 1 = Least Suitable**

| | NATURAL 6.6 NYLON* | WEATHER-RESISTANT 6.6 NYLON | HEAT-STABILIZED NATURAL 6.6 NYLON | HEAT-STABILIZED UV 6.6 NYLON | EXTRA HIGH TEMP 4.6 NYLON | FLAME-RETARDANT 6.6 NYLON | WEATHER-RESISTANT NYLON 12 | WEATHER-RESISTANT POLY-PROPYLENE | LOW-SMOKE FLUORO-POLYMER | RADIATION-RESISTANT FLUORO-POLYMER | DELTEC® WEATHERABLE ACETEL | DETECTABLE NYLON* | STAINLESS STEEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ultraviolet Resistance | 1 | 4 | 1 | 4 | 1 | 1 | 4 | 4 | 5 | 5 | 4 | 1 | 5 |
| Radiation Resistance | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 1 | 1 | 5 |
| Low Temperature | 3 | 3 | 3 | 4 | 3 | 2 | 4 | 3 | 4 | 4 | 4 | 2 | 5 |
| High Temperature | 3 | 3 | 4 | 3 | 4 | 3 | 2 | 2 | 4 | 4 | 2 | 2 | 5 |
| Flammablity | 3 | 3 | 3 | 3 | 3 | 4 | 1 | 1 | 4 | 4 | 1 | 3 | 5 |
| Tensile Strength | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 2 | 3 | 5 |
| Relative Cost | Low | Low | Low | Low | Med | Med | Med | Low | High | High | High | Med | High |
| Chemical Resistance | SEE TABLE 3 (PAGES C-10–C-11) | | | | | | | | | | | | |

** Fungus inert*

### Flammability ratings for selecting Ty-Rap® cable ties

Flammability ratings of Ty-Rap® cable tie materials are shown in Table 2 on the following page. These tests for flammability of plastic material are intended to serve as a preliminary indication of acceptability with respect to flammability for particular applications.

### UL 94 vertical burn test procedures

Test specimens of the material, with dimensions 5" x ½", with the thickness intended for use in the end product, are tested in both the manufactured condition and in the aged state. The test requires that the specimen be supported in a vertical fixture and a precisely controlled flame applied for a 10-second period.

The flame is removed and the duration of flaming is noted. If the flame extinguishes, a second exposure to flame for 10 seconds is applied and duration of flaming is again noted. It is observed and recorded whether or not test specimens drip flaming particles that ignite a cotton swatch.

**Materials classed UL94V-0:**

A material classed V-0 shall:

**A.** Not have any specimens that burn with flaming combustion for more than 10 seconds after either application of the test flame.

**B.** Not have a total flaming combustion time exceeding 50 seconds for the 10 flame applications for each set of five specimens.

**C.** Not have any specimens that burn with flaming or glowing combustion up to the holding fixture.

**D.** Not have any specimens that drip flaming particles that ignite the dry absorbent surgical cotton located 12" below the test specimen.

**E.** Not have any specimens with glowing combustion that persists for more than 30 seconds after the second removal of the test flame.

**Materials classed UL94V-1:**

A material classed V-1 shall:

**A.** Not have any specimens that burn with flaming combustion for more than 30 seconds after either application of the test flame.

**B.** Not have a total flaming combustion time exceeding 250 seconds for the 10 flame applications for each set of five specimens.

**C.** Not have any specimens that burn with flaming or glowing combustion up to the holding fixture.

**D.** Not have any specimens that drip flaming particles that ignite the dry absorbent surgical cotton located 12" below the test specimen.

**E.** Not have any specimens with glowing combustion that persists for more than 60 seconds after the second removal of the test flame.

**Materials classed UL94V-2:**

A material classed V-2 shall:

**A.** Not have any specimens that burn with flaming combustion for more than 30 seconds after either application of the test flame.

**B.** Not have a total flaming combustion time exceeding 250 seconds for the 10 flame applications for each set of five specimens.

**C.** Not have any specimens that burn with flaming or glowing combustion up to the holding fixture.

**D.** Be permitted to have specimens that drip flaming particles that burn only briefly, some of which ignite the dry absorbent surgical cotton placed 12" below the test specimen.

**E.** Not have any specimens with glowing combustion that persists for more than 60 seconds after the second removal of the test flame.

# Engineered-Performance Material Cable Ties

## Table 2 — Physical Properties of Ty-Rap® Cable Tie Materials

| | NATURAL 6.6 NYLON | WEATHER-RESISTANT 6.6 NYLON | HEAT-STABILIZED NATURAL 6.6 NYLON | HEAT-STABILIZED UV 6.6 NYLON | EXTRA HIGH TEMP 4.6 NYLON | FLAME-RETARDANT 6.6 NYLON | WEATHER-RESISTANT NYLON 12 | WEATHER-RESISTANT POLY-PROPYLENE | LOW-SMOKE FLUORO-POLYMER | RADIATION-RESISTANT FLUORO-POLYMER | DELTEC® WEATHERABLE ACETAL | STAINLESS STEEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tensile Strength (Yield) @ 73° F (Dry-As-Molded)[1] [psi] | 12,000 | 12,000 | 12,000 | 11,500 | 14,500 | 11,000 | 7,500 | 4,600 | 6,600 | 6,700 | 10,000 | 90,000 |
| Flammability Rating | UL94V-2 | UL94V-2 | UL94V-2 | UL94V-2 | UL94V-2 | UL94V-0 | — | — | UL94V-0 | UL94V-0 | UL94HB | — |
| Radiation Resistance [rads] | $1 \times 10^5$ | $1 \times 10^5$ | $1 \times 10^5$ | $1 \times 10^5$ | $1 \times 10^5$ | $1 \times 10^5$ | $1 \times 10^5$ | $1 \times 10^5$ | $2 \times 10^6$ | $2 \times 10^8$ | $1 \times 10^6$ | $2 \times 10^8$ |
| Ultraviolet Light Resistance | Poor | Good | Poor | Good | Poor | Poor | Good | Good | Excellent | Excellent | Very Good | Excellent |
| Water Absorption ( 24 hrs.) [%] | 1.3 | 1.2 | 1.4 | .25 | 2.3 | 1.4 | .25 | .1 | <.1 | <.01 | .25 | None |
| Oxygen Index | 28 | 28 | 31 | 26 | 27 | 34 | — | — | 52 | 30 | 21 | — |
| Max. Continuous Use Temperature [F°/C°] | 185/85 | 185/85 | 221/105 | 221/105 | 302/150 | 185/85 | 176/80 | 194/90 | 284/140 | 302/150 | 194/90 | 1000/537 |
| Min. Continuous Use Temperature [F°/C°] | -40/-40 | -40/-40 | -40/-40 | -40/-40 | -40/-40 | -40/-40 | -40/-40 | -65/-65 | -50/-46 | -50/-46 | -85/-65 | -112/-80 |
| Color | Natural | Black | Green Tint | Black | Light Green | White | Black | Black | Maroon | Aqua | Black | Stainless |

*[1] ASTM D638-878 except stainless steel, which is ASTME8*

## Chemical Resistance

Table 3 shows the resistance of Ty-Rap® cable tie materials to various chemicals. The table is designed to help you determine the cable tie material best suited for a particular chemical environment.

### Table 3 — Resistance of Available Materials to Various Chemicals Temp 70° F

| REAGENTS | CONCENTRATION | STANDARD 6.6 NYLON AS USED IN TY SERIES | WEATHER-RESISTANT 6.6 NYLON AS USED IN TY X SERIES | HEAT-STABILIZED 6.6 NYLON AS USED IN TYH SERIES | FLAME-RETARDANT 6.6 NYLON AS USED IN TY FR SERIES | WEATHER-RESISTANT NYLON 12 AS USED IN TYC X SERIES | WEATHER-RESISTANT POLY-PROPYLENE AS USED IN TYP X SERIES | LOW-SMOKE FLUOROPOLYMER AS USED IN TYV SERIES | RADIATION-RESISTANT FLUOROPOLYMER AS USED IN TYZ SERIES | DELTEC® WEATHERABLE ACETAL AS USED IN TYD SERIES | STAINLESS STEEL AS USED IN TYS SERIES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic Acid | 40% | — | — | — | — | — | E | — | — | — | E |
| Acetaldehyde | 50% | S | S | S | S | — | — | — | — | — | — |
| Acetone | 100% | E | E | E | E | E | E | E | E | F | E |
| Aluminum Hydroxide | AQ | — | — | — | — | — | E | E | E | — | E |
| Ammonia | All | — | — | — | — | E | E | E | E | — | |
| Ammonium Carbonate | 5% | S | S | S | S | E | E | E | E | — | E |
| Ammonium Hydroxide | 10% | E | E | E | E | — | E | E | E | F | E |
| Ammonium Nitrate | — | — | — | — | — | E | E | E | E | — | E |
| Ammonium Sulfate | 10% | — | — | — | — | S | S | E | S | — | S |
| Barium Carbonate | All | — | — | — | — | E | E | E | E | — | E |
| Barium Chloride | 5% | NR | NR | NR | NR | E | E | | E | — | E |
| Barium Sulfate | 10% | E | E | E | E | E | E | | E | — | E |
| Barium Sulfide | 10% | S | S | S | S | E | E | | E | — | E |
| Benzene | 100% | E | E | E | E | E | S | E | E | F | E |
| Benzoic Acid | 100% | NR | NR | NR | NR | E | E | E | E | — | E |
| Butyric Acid | 50% | NR | NR | NR | NR | — | E | E | E | — | E |
| Calcium Carbonate | AQ | — | — | — | — | — | E | E | E | — | E |
| Calcium Hydroxide | 20% | — | — | — | — | — | E | F | E | E | E |
| Calcium Hydrochlorite | 2 | NR | NR | NR | NR | — | F | — | F | — | F |
| Calcium Sulfate | 2% | — | — | — | — | — | E | E | E | — | E |
| Carbon Tetrachloride | 100% | E | E | E | E | E | F | E | E | E | E |
| Chlorine (WET) | — | NR | NR | NR | NR | — | F | — | F | — | F |
| Chlorine (DRY) | — | NR | NR | NR | NR | — | NR | — | F | — | F |
| Chloroacetic Acid | 30% | NR | NR | NR | NR | — | — | — | F | — | F |
| Chloroform | 100% | — | — | — | — | F | F | E | E | — | E |
| Chromic Acid | 50% | NR | NR | NR | NR | — | F | S | F | — | F |
| Citric Acid | 50% | S | S | S | S | E | E | E | E | E | E |
| Copper Cyanide | 10% | — | — | — | — | — | E | E | E | — | E |
| Copper Nitrate | 50% | — | — | — | — | — | E | E | E | — | E |
| Cider | — | — | — | — | — | — | E | E | E | — | E |
| Dichloroethane | 100% | — | — | — | — | — | — | E | E | — | E |
| Diethyl Ether | 100% | — | — | — | — | E | E | E | E | S | E |
| Ethyl Alcohol | 100% | S | S | S | S | E | E | E | E | — | E |
| Ethyl Chloride | 100% | — | — | — | — | F | F | S | E | E | E |
| Ethylene Glycol | 100% | E | E | E | E | — | E | E | E | S | E |
| Ferric Hydroxide | All | — | — | — | — | — | E | E | E | — | E |
| Ferric Nitrate | 10% | — | — | — | — | — | E | E | E | — | E |
| Ferrous Sulfate | 10% | — | — | — | — | — | E | E | E | — | E |
| Fuel Oil | 100% | — | — | — | — | E | — | E | E | — | E |
| Furfural | 100% | — | — | — | — | — | F | E | E | — | E |
| Gallic Acid | AQ | — | — | — | — | — | — | E | E | — | E |
| Gasoline | 100% | E | E | E | E | — | S | E | E | — | E |
| Glycerine | 100% | — | — | — | — | E | E | E | — | — | E |
| Hydrocyanic Acid | All | — | — | — | — | — | E | E | E | — | E |
| Hydrogen Peroxide | 30% | NR | NR | NR | NR | S | E | E | E | F | E |
| Hydrogen Sulfide | Dry | NR | NR | NR | NR | E | E | E | E | — | E |



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# Engineered-Performance Material Cable Ties

**Table 3** ***(continued)***

| REAGENTS | CONCENTRATION | STANDARD 6.6 NYLON AS USED IN TY SERIES | WEATHER-RESISTANT 6.6 NYLON AS USED IN TY X SERIES | HEAT-STABILIZED 6.6 NYLON AS USED IN TYH SERIES | FLAME-RETARDANT 6.6 NYLON AS USED IN TY FR SERIES | WEATHER-RESISTANT NYLON 12 AS USED IN TYC X SERIES | WEATHER-RESISTANT POLY-PROPYLENE AS USED IN TYP X SERIES | LOW-SMOKE FLUOROPOLYMER AS USED IN TYV SERIES | RADIATION-RESISTANT FLUOROPOLYMER AS USED IN TYZ SERIES | DELTEC® WEATHERABLE ACETAL AS USED IN TYD SERIES | STAINLESS STEEL AS USED IN TYS SERIES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Iodoform | 100% | — | — | — | — | — | — | E | E | — | E |
| Isopropyl Alcohol | 100% | S | S | S | S | E | E | E | E | — | E |
| Jet Fuel | 100% | E | E | E | E | — | S | E | E | — | E |
| Lactic Acid | 10% | E | E | E | E | S | E | E | E | — | E |
| Lanolin | 10% | E | E | E | E | E | E | E | E | — | E |
| Lead Acetate | 5% | — | — | — | — | — | E | E | E | — | E |
| Linseed Oil | 10% | E | E | E | E | E | E | E | E | E | E |
| Magnesium Carbonate | All | — | — | — | — | E | E | E | E | — | E |
| Magnesium Chloride | 10% | F | F | F | F | F | F | — | F | — | F |
| Magnesium Nitrate | All | — | — | — | — | E | E | E | E | — | E |
| Malic Acid | AQ | — | — | — | — | — | E | E | E | — | E |
| Mercury | 100% | — | — | — | — | E | E | E | E | — | E |
| Methyl Alcohol | 100% | S | S | S | S | E | E | E | E | — | E |
| Methyl Chloride | 100% | — | — | — | — | — | S | S | E | — | E |
| Methyl Ethyl Ketone | 100% | — | — | — | — | E | E | E | E | F | E |
| Naptha | 100% | — | — | — | — | — | E | E | E | — | E |
| Nitric Acid | 30% | NR | NR | NR | NR | — | E | E | E | NR | E |
| Nitric Acid | 30–70% | NR | NR | NR | NR | — | F | S | S | NR | E |
| Nitrous Acid | 5% | — | — | — | — | — | F | E | E | — | E |
| Oleic Acid | 100% | — | — | — | — | — | E | E | E | S | E |
| Oxalic Acid | 10% | — | — | — | — | S | E | E | E | — | E |
| Paraffin | 100% | E | E | E | E | E | E | E | E | — | E |
| Petroleum Ether | 100% | — | — | — | — | E | F | E | E | — | E |
| Phenol | 90% | NR | NR | NR | NR | — | E | E | E | NR | E |
| Phosphoric Acid | 10% | NR | NR | NR | NR | — | E | E | E | — | E |
| Picric Acid | 1% | — | — | — | — | — | E | E | E | — | E |
| Potassium Bromide | AQ | — | — | — | — | — | S | — | S | — | S |
| Potassium Carbonate 1% | — | — | — | E | E | E | E | — | E | — | |
| Potassium Chlorate | AQ | — | — | — | — | S | E | E | E | — | E |
| Potassium Dichromate | 40% | NR | NR | NR | NR | F | E | E | E | — | E |
| Potassium Ferrocyanide | 25% | — | — | — | — | — | E | E | E | — | E |
| Potassium Hydroxide | 5% | S | S | S | S | — | E | E | E | — | E |
| Potassium Iodide | All | — | — | — | — | E | E | E | E | — | E |
| Potassium Nitrate | 50% | F | F | F | F | E | E | E | E | — | E |
| Potassium Permanganate | 5% | NR | NR | NR | NR | NR | E | E | E | S | E |
| Potassium Sulfate | 5% | — | — | — | — | E | E | E | E | — | E |
| Potassium Sulfide | AQ | — | — | — | — | — | E | E | E | — | E |
| Propyl Alcohol | 100% | E | E | E | E | — | E | E | E | — | E |
| Silver Nitrate | 10% | — | — | — | — | E | E | E | E | — | E |
| Sodium Acetate | 60% | E | E | E | E | — | E | E | E | — | E |
| Sodium Bicarbonate | All | E | E | E | E | E | E | E | E | — | E |
| Sodium Bisulfate | 10% | — | — | — | — | E | E | E | E | E | E |
| Sodium Borate | All | — | — | — | — | — | E | E | E | — | E |
| Sodium Carbonate | 5% | E | E | E | E | E | E | E | E | S | E |
| Sodium Chlorate | 25% | — | — | — | — | S | E | E | E | E | E |
| Sodium Chloride | 2% | E | E | E | E | E | E | E | E | S | E |
| Sodium Fluoride | 5% | — | — | — | — | — | F | — | F | — | F |
| Sodium Hydroxide | 10% | E | E | E | E | E | E | E | E | S | E |
| Sodium Hyposulfite | AQ | — | — | — | — | — | — | E | E | — | E |
| Sodium Nitrate | 5% | E | E | E | E | E | E | E | E | — | E |
| Sodium Nitrite | AQ | — | — | — | — | S | E | E | E | — | E |
| Sodium Perchlorate | 10% | — | — | — | — | — | — | E | E | — | E |
| Sodium Phosphate | 5% | — | — | — | — | E | E | E | E | — | E |
| Sodium Sulfate | 5% | S | E | S | E | E | E | E | E | — | E |
| Sodium Thiosulfate | 5% | — | — | — | — | S | S | — | S | S | S |
| Stearic Acid | 100% | — | — | — | — | F | E | E | E | — | E |
| Sulfur | 100% | — | — | — | — | E | E | E | E | — | E |
| Sulfur Dioxide | All | NR | NR | NR | NR | E | E | E | E | — | E |
| Sulfuric Acid | Conc. | NR | NR | NR | NR | — | S | E | E | NR | E |
| Sulfuric Acid | 5% | NR | NR | NR | NR | F | F | F | F | F | F |
| Tannic Acid | 10% | — | — | — | — | — | E | E | E | — | E |
| Tartaric Acid | 50% | — | — | — | — | E | E | E | E | E | E |
| Tetrahydrofuran | 100% | — | — | — | — | S | F | F | E | E | E |
| Toluene | 100% | E | E | E | E | E | F | E | E | F | F |
| Xylene | 100% | E | E | E | E | E | F | | E | — | E |
| Zinc Chloride | 70% | F | F | F | F | E | E | E | E | NR | E |
| Zinc Nitrate | AQ | — | — | — | — | E | E | E | E | — | E |
| Zinc Sulfate | AQ | — | — | — | — | E | E | E | E | — | E |

**Ratings: E**=Excellent **S**=Satisfactory **F**=Fair **NR**=Not Recommended (**AQ**=Aqueous)





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Thomas&Betts

## Color Coding Cable Ties

# Ty-Rap® Striped-Colored Cable Ties for Identification Telephone Cable Binder

Designed primarily for P.I.C. and station cable binder marking, these self-locking ties install without tools in less than 10 seconds. Compared to an installation time of 30–60 seconds using the twisted-wire method, the time saving is substantial. High-contrast color stripes extend to end of tail for instant, permanent identification of binder.



| STD. PKG. CAT. NO. | BULK. PKG. CAT. NO. | TIE COLOR | COLOR STRIPE | BODY WIDTH IN./MM | LENGTH IN./MM | TENSILE STRENGTH LBS./N | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| **696-40527-0C** | **696-40527-0** | Black | — | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-1-0C** | **696-40527-1-0** | Brown | Black | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-1-2C** | **696-40527-1-2** | Brown | Red | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-1-4C** | **696-40527-1-4** | Brown | Yellow | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-1-7C** | **696-40527-1-7** | Brown | Violet | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-1-9C** | **696-40527-1-9** | Brown | White | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-2C** | **696-40527-2** | Red | — | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-3-0C** | **696-40527-3-0** | Orange | Black | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-3-2C** | **696-40527-3-2** | Orange | Red | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-3-4C** | **696-40527-3-4** | Orange | Yellow | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-3-7C** | **696-40527-3-7** | Orange | Violet | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-3-9C** | **696-40527-3-9** | Orange | White | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-4C** | **696-40527-4** | Yellow | — | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-5-0C** | **696-40527-5-0** | Green | Black | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-5-2C** | **696-40527-5-2** | Green | Red | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-5-4C** | **696-40527-5-4** | Green | Yellow | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-5-7C** | **696-40527-5-7** | Green | Violet | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-5-9C** | **696-40527-5-9** | Green | White | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-6-0C** | **696-40527-6-0** | Blue | Black | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-6-2C** | **696-40527-6-2** | Blue | Red | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-6-4C** | **696-40527-6-4** | Blue | Yellow | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-6-7C** | **696-40527-6-7** | Blue | Violet | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-6-9C** | **696-40527-6-9** | Blue | White | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-8-0C** | **696-40527-8-0** | Slate | Black | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-8-2C** | **696-40527-8-2** | Slate | Red | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-8-4C** | **696-40527-8-4** | Slate | Yellow | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |
| **696-40527-8-9C** | **696-40527-8-9** | Slate | White | .09/2.29 | 3.62/91.95 | 18/80.07 | 50 | 1,000 |

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

# Ty-Rap® Striped-Colored Cable Tie Kits



| STD. PKG. CAT. NO. | DESCRIPTION | STD. PKG. |
|---|---|---|
| **650-40587** | Pouch only | 1 |
| **650-40587-1** | Pouch with Ty-Rap® cable tie assortment 1 bag each of 50 each (1,250 total) | 1 |
| **650-40587C** | Cloth pouch only | 1 |
| **650-40587CF** | Cloth pouch with 1 bag of 50 each Ty-Rap® cable ties (1,250 total) | 1 |
| **650-40587M** | Mini pouch only | 1 |
| **650-40587MF** | Mini pouch filled with assortment of Ty-Rap® cable ties (50 each) | 1 |



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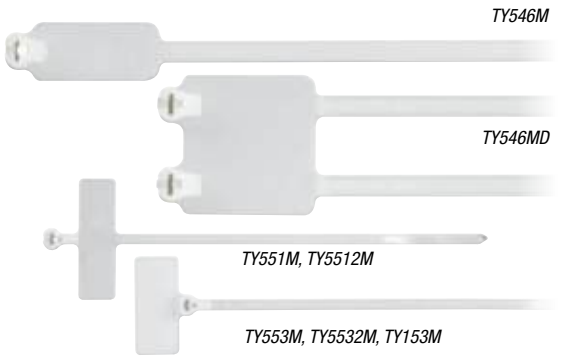
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# Keep your cables clearly identified!

## Ty-Rap® 6.6 Nylon Identification Ties

Self-locking Ty-Rap® identification ties are available in both single and multiple configurations. They can be marked with the special Thomas & Betts marking pen (see **page C-14**) that immediately produces a permanent legend, or they can be heat stamped. Because the ties serve the dual purpose of tying and identifying, you will achieve extra economies. They can be applied with the standard Ty-Rap® tying tools used for regular ties.




| STD CAT. NO. | BULK CAT. NO. | BODY WIDTH IN./MM | TOTAL LENGTH IN./MM | MAX. WIRE BUNDLE IN./MM | MILITARY STANDARD PART NO. | MARKING PAD SIZE IN./MM. W X H | TENSILE STRENGTH LBS./N | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **TY551M** | **TY51M** | .09/2.29 | 3.60/91.44 | .63/16.00 | MS3368-5 | 1 x .313 | 18/80.07 | 100 | 500 |
| **TY5512M** | **TY512M*** | .09/2.29 | 8.30/210.82 | 2.00/50.80 | — | 1 x .313 | 18/80.07 | 100 | 1,000 |
| **TY553M** | **TY53M** | .09/2.29 | 4.00/101.6 | .63/16.00 | — | .813 x .359 | 18/80.07 | 100 | 500 |
| **TY5532M** | **TY532M** | .09/2.29 | 8.40/213.36 | 2.00/50.80 | — | .813 x .359 | 18/80.07 | 100 | 1,000 |
| **—** | **TY153M** | .10/2.54 | 4.35/110.49 | .63/16.00 | — | .781 x 1 | 18/80.07 | — | 500 |
| **TY546M** | **TY46M** | .18/4.57 | 7.10/180.34 | 1.75/44.45 | MS3368-1 | .5 x .875 | 50/222.40 | 100 | 1,000 |
| **TY548M** | **TY48M*** | .19/4.83 | 14.20/360.68 | 4.00/101.6 | MS3368-2 | .5 x 2.125 | 50/222.40 | 100 | 1,000 |
| **TY546MD** | **TY46MD*** | .19/4.83 | 7.25/184.15 | 1.75/44.45 | MS3368-3 | 1.172 x 1 | 50/222.40 | 50 | 500 |
| **TY546MT** | **TY46MT*** | .19/4.83 | 7.25/184.15 | 1.75/44.45 | MS3368-4 | 1.210 x 1 | 50/222.40 | 100 | 500 |
| **TY546MF** | **TY46MF** | .19/4.83 | 7.25/184.15 | 1.75/44.45 | — | 2.48 x 1 | 50/222.40 | 50 | 250 |

**Nylon 6.6 UV weather-resistant version available (add suffix X).*

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

- *Natural nylon color*

## Custom Heat Stamping

Thomas & Betts Custom Heat Stamping provides an economical way to fasten and identify cable bundles. Mark nylon cable ties, identification cable ties, and identification plates to suit your application.




For heat stamping quotations, contact Technical Services at 888.862.3289.

- 1/16", 1/8", 3/16" characters available
- Standard type — Gothic Capitol
- Character sizes can be mixed from line to line on Identification cable ties
- Alphanumeric and sequential numbering available
- Six-digit sequential numbering available in 1/8" characters
- Eight-digit sequential numbering available in 1/16" and 3/16" characters
- Special logos and different type styles can be accommodated when camera-ready artwork is provided
- Minimum order quantity is 3,000 pieces per part number and message
- Lead time is 8–10 weeks

# Identification Tags, Cable Ties and Accessories

## Stay organized!

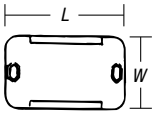
### Identification Tags

Ranging in length from 1.25" to 2.5", the identification plates are secured to the cable with Ty-Rap® ties. They are composed of .010"- and .015"-thick nylon 6.6, and have a surface that can be marked easily. Thomas & Betts offers custom heat stamping of your plates at the factory.

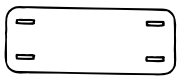


TC123-TB




TC223-TB



TC224-TB

| BULK CAT. NO. | WIDTH IN./MM | LENGTH IN./MM | THICKNESS IN./MM | MAX. CABLE BUNDLE DIA. IN./MM | # TIE SLOTS | BULK PKG. QTY. |
|---|---|---|---|---|---|---|
| **TC123-TB** | .75/19.05 | 1.25/31.75 | .01/.25 | .19/4.83 | 3 | 1,000 |
| **TC124-TB** | .75/19.05 | 1.50/38.10 | .01/.25 | .19/4.83 | 3 | 1,000 |
| **TC125-TB** | .75/19.05 | 1.75/44.45 | .01/.25 | .19/4.83 | 3 | 1,000 |
| **TC126-TB** | .75/19.05 | 2.00/50.80 | .01/.25 | .19/4.83 | 3 | 1,000 |
| **TC128-TB** | .75/19.05 | 2.50/63.50 | .01/.25 | .19/4.83 | 3 | 1,000 |
| **TC223-TB** | .75/19.05 | 1.28/32.51 | .02/.51 | .19/4.83 | 2 | 1,000 |
| **TC224-TB** | .75/19.05 | 1.50/38.10 | .02/.51 | .19/4.83 | 2 | 1,000 |
| **TC225-TB** | .75/19.05 | 1.75/44.45 | .02/.51 | .19/4.83 | 2 | 1,000 |
| **TC226-TB** | .75/19.05 | 2.00/50.80 | .02/.51 | .19/4.83 | 2 | 1,000 |
| **TC228-TB** | .75/19.05 | 2.50/63.50 | .02/.51 | .19/4.83 | 2 | 1,000 |

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

- *Natural nylon color*

## Mark and bundle simultaneously!

### Snap-On Identification Marker Tag




Snaps onto the head of a conventional cable tie to convert it to an identification tie.

- When snapped onto the tie head, the tag is conveniently held in place until it is permanently fastened
- Offers maximized inventory control because the I.D. tag will accommodate different tie lengths and materials
- Enables marking and bundling to be done in one operation
- The marking can be made with a Thomas & Betts permanent marking pen, Cat. No. WT163M-1
- The identification tags are sold separately and can be conveniently snapped on the cable ties at the assembly location just before being installed on the bundle
- Made of natural nylon 6.6

| STD. CAT. NO. | BULK CAT. NO. | DESCRIPTION | MARKING PAD SIZE W X H (IN./MM) | PKG. QTY. | PKG. QTY. |
|---|---|---|---|---|---|
| **TC523** | **TC23** | Snaps onto the heads of all miniature 18 lbs. (80.07 N) series cable ties | 1 x .35/25.40 x 889.00 | 100 | 1,000 |
| **TC524** | **TC24** | Snaps onto the heads of all intermediate 30 (133.40N) & 40 (177.90N) lbs. series cable ties | 1 x .50/25.40 x 500.00 | 100 | 1,000 |
| **TC525** | **TC25** | Snaps onto the heads of all standard 50 lbs. series cable ties | 1 x .50/25.40 x 500.00 | 100 | 1,000 |

- *Natural nylon color*

### Ty-Rap® Marking Pen



- Permanent ink for long life on nylon cable ties and tags
- Fine-point tip for easy cable tie and tag marking

| CAT. NO. | COLOR INK | STD. PKG. QTY. |
|---|---|---|
| **WT163M-1** | Black | 1 |



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# Mounting Bases, Cable Ties and Accessories



## Great for use with screws, nuts and bolts for secure fastening to surfaces.

### Ty-Rap® 6.6 Nylon Mounting Head Ties — Natural



TY533M



TYF535M

| STD. CAT. NO. | BULK CAT. NO. | BODY WIDTH IN./MM | LENGTH IN./MM | MAX. WIRE BUNDLE DIA. IN./MM | MOUNTING HOLE | TENSILE STRENGTH LBS./N | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| TY533M | TY33M | .09/2.29 | 4.00/101.60 | .63/16.00 | #4 | 18/80.07 | 100 | 1,000 |
| TY534M | TY34M | .14/3.56 | 6.00/152.40 | 1.13/28.70 | #8 | 40/177.90 | 100 | 1,000 |
| TY535M | TY35M | .18/4.57 | 7.80/198.12 | 1.75/44.45 | #10 | 50/222.40 | 100 | 1,000 |
| TY5354M | TY354M | .18/4.57 | 14.60/370.84 | 4.00/101.60 | #10 | 50/222.40 | 100 | 1,000 |
| — | TY635M | .19/4.83 | 7.80/198.12 | 1.77/44.96 | #6 | 50/222.40 | — | 1,000 |
| TYF535M | TYF35M | .19/4.83 | 7.24/183.90 | 1.77/44.96 | #6 | 50/222.40 | 100 | 1,000 |
| TY537M | TY37M | .30/7.62 | 13.90/353.06 | 3.50/88.90 | ¼" | 120/533.80 | 50 | 500 |

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

- *Natural nylon color*

### Ty-Rap® 6.6 Nylon Mounting Head Ties — Weather Resistant

The MX series cable ties are recommended for outdoor use. The addition of carbon black provides good ultraviolet resistance and prolongs the useful life of the cable tie.






| STD. CAT. NO. | BULK CAT. NO. | BODY WIDTH IN./MM | LENGTH IN./MM | MAX. WIRE BUNDLE DIA. IN./MM | MOUNTING HOLE | TENSILE STRENGTH LBS./N | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| TY533MX | TY33MX | .09/2.29 | 4.00/101.60 | .63/16.00 | #4 | 18/80.07 | 100 | 1,000 |
| TY534MX | TY34MX | .14/3.56 | 6.00/152.40 | 1.13/28.70 | #8 | 40/177.90 | 100 | 1,000 |
| TY535MX | TY35MX | .18/4.57 | 7.80/198.12 | 1.75/44.45 | #10 | 50/222.40 | 100 | 1,000 |
| TY5354MX | TY354MX | .18/4.57 | 14.60/370.84 | 4.00/101.60 | #10 | 50/222.40 | 100 | 1,000 |
| TY537MX | TY37MX | .30/7.62 | 13.90/353.06 | 3.50/88.90 | ¼" | 120/533.80 | 50 | 500 |

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

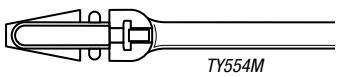
- *Black color*

### Ty-Rap® 6.6 Nylon Push-Mount Ties

For use in 3⁄16" and ¼" pre-drilled holes. Panel thickness .09" max. (TY554M)
Range .04–.156" (TY538M)



TY538M



TY554M

| STD. CAT. NO. | BULK CAT. NO. | BODY WIDTH IN./MM | LENGTH IN./MM | MAX. WIRE BUNDLE DIA. IN./MM | MOUNTING HOLE | TENSILE STRENGTH LBS./N | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| TY554M | TY33MX | .14/3.56 | 5.96/151.38 | 1.13/28.70 | 3⁄16" | 40/177.90 | 100 | 1,000 |
| TY538M | TY38M* | .18/4.57 | 7.80/198.12 | 1.75/44.45 | ¼" | 50/222.40 | 100 | 1,000 |

**Nylon 6.6 UV weather-resistant version available (TY38MX).*

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

- *Natural nylon color*

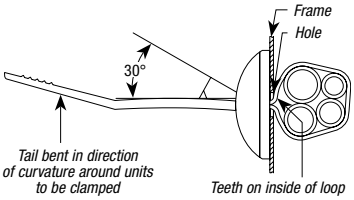
## Mounting Bases, Cable Ties and Accessories

# Convenient one-piece design!

## Ty-Rap® Tie for Panel and Chassis Mounting



- One-piece design, fast and convenient to use
- Clamping range of 1⁄16 to 2⅜ inches reduces your inventory — one clamp replaces many
- Visually attractive — head resembles rivet
- Locking grooves maintain tight grip
- Lowers your installed cost




| STD. CAT. NO. | BULK CAT. NO. | BODY WIDTH IN./MM | LENGTH IN./MM | MAX. WIRE BUNDLE DIA. IN./MM | HOLE SIZE IN./MM | STRENGTH LBS./N | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| TY541M | TY41M | .23/5.84 | 9.60/243.84 | 2.37/60.20 | .32–.68/8.13–17.27 | 65/289.10 | 50 | 1,000 |
| 650-41600 | — | .23/5.84 | 10.25/260.35 | 2.50/63.50 | .32–.68/8.13–17.27 | 65/289.10 | 500 | 1,000 |
| 696-41848 | — | .23/5.84 | 12.50/317.50 | 3.00/76.20 | .32–.68/8.13–17.27 | 65/289.10 | 500 | 1,000 |

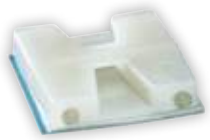
***Note:*** *Loop tie through hole in frame, around electrical, hydraulic, or air hoses to be clamped, and through head. Tighten and cut off with Ty-Rap tool. Visually looks like a rivet.*

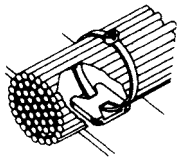
- *For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*
- *Black color*

# Choose from adhesive-backed, epoxy or screw mounting bases!

## Two-Way Adhesive Mounting Bases

- Available in a variety of materials for both indoor and outdoor use
- One-piece molding — no lost parts
- Adhesive-backed with pressure-sensitive adhesive tape (where applicable)





| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING METHOD | MAX. TIE WIDTH ACCOM. | LENGTH IN./MM | WIDTH IN./MM | MATERIAL | STD. PKG. QTY. | BULK PKG. |
|---|---|---|---|---|---|---|---|---|
| TC5342A | TC342A | SRA* Adhesive | .19 | 1.13/28.58 | 1.13/28.58 | Nylon 6.6 | 100 | 1,000 |
| — | TC342A-X | SRA* Adhesive | .19 | 1.13/28.58 | 1.13/28.58 | UV Black | — | 1,000 |
| — | TC342 | TC2PA† | .19 | 1.13/28.58 | 1.13/28.58 | Nylon 6.6 | — | 1,000 |
| — | TC342X | TC2PA† | .19 | 1.13/28.58 | 1.13/28.58 | UV Black | — | 1,000 |
| — | TC342A-FR | SRA* Adhesive | .19 | 1.13/28.58 | 1.13/28.58 | Flame-Retardant Nylon | — | 1,000 |
| — | TC342AH-TFR | Acrylic Adhesive | .19 | 1.13/28.58 | 1.13/28.58 | Black High-Temp Flame-Retardant Nylon | — | 1,000 |

*Temperature Rating: 32° F to 120° F (0° C to 48° C)* **Synthetic Rubber Adhesive* *†TC2PA Adhesive sold separately*

***Note:*** *See product expiration date on package. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.*



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# Select the four-way configuration you need!

## Four-Way Adhesive Mounting Base

- Eliminates errors in premounting the base with respect to its orientation to wire bundle direction
- For synthetic rubber adhesive (SRA), allow 15-minute setting time for maximum adhesion performance
- For acrylic adhesive, allow 24- to 72-hour setting time for maximum adhesion performance (acrylic-adhesive mounting bases may be re-positioned initially before the adhesive has set)

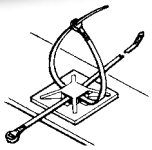


### Four-Way Mini Base



### Large Four-Way Base





| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING METHOD | MAX. TIE WIDTH ACCOM. | LENGTH IN./MM | WIDTH IN./MM | MATERIAL | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| ***4-Way Adhesive Mounting Base*** | | | | | | | | |
| **TC5345A** | **TC345A** | SRA* Adhesive | .19 | 1.13/28.58 | 1.13/28.58 | Nylon 6.6 | 100 | 1,000 |
| **—** | **TC345AFR** | SRA* Adhesive | .19 | 1.13/28.58 | 1.13/28.58 | Flame-Retardant Nylon | — | 1,000 |
| **TC5345AX** | **TC345AX** | SRA* Adhesive | .19 | 1.13/28.58 | 1.13/28.58 | UV Black | 100 | 1,000 |
| **TC5345AHTFR** | **—** | Acrylic Adhesive | .19 | 1.13/28.58 | 1.13/28.58 | Black High-Temp Flame-Retardant Nylon | 100 | 1,000 |
| **—** | **TC345** | TC2PA/Screws | .19 | 1.13/28.58 | 1.13/28.58 | Nylon 6.6 | — | 1,000 |
| ***4-Way Mini Base*** | | | | | | | | |
| **TC050X050A-C** | **TC050X050A** | SRA* Adhesive | .10 | .5/12.70 | .5/12.70 | Nylon 6.6 | 100 | 1,000 |
| **TC5344A** | **TC344A** | SRA* Adhesive | .14 | .75/19.05 | .750/19.05 | Nylon 6.6 | 100 | 1,000 |
| **TC5344AX** | **TC344AX** | SRA* Adhesive | .14 | .75/19.05 | .750/19.05 | UV Black | 100 | 1,000 |
| **TC5344** | **TC344** | Screw Mount | .14 | .75/19.05 | .750/19.05 | Nylon 6.6 | 100 | 1,000 |
| ***Large 4-Way Base*** | | | | | | | | |
| **TC150X150A-L** | **TC150150A** | SRA* Adhesive | .19 | 1.5/38.10 | .50/38.10 | Nylon 6.6 | 50 | 500 |
| **TC150X150AX-L** | **TC150X150AX** | SRA* Adhesive | .19 | 1.5/38.10 | .50/38.10 | UV Black | 50 | 500 |
| **—** | **TC200X200** | Screw Mount | .30 | 2.0/50.80 | 2.0/50.80 | Nylon 6.6 | 50 | 500 |
| **TC200X200A-L** | **TC200X200A** | SRA* Adhesive | .30 | 2.0/50.80 | 2.0/50.80 | Nylon 6.6 | 50 | 500 |
| **—** | **TC368** | Screw Mount | .75 | 2.0/50.80 | 2.0/50.80 | Nylon 6.6 | — | 500 |
| **—** | **TC368A** | SRA* Adhesive | .75 | 2.0/50.80 | 2.0/50.80 | Nylon 6.6 | — | 500 |

- *Storage/Service Temperature: 32° F to 120° F (0° C to 48° C)*
- *Application Temperature: 65° F to 100° F (18° C to 37° C)*
- *Surface Preparation: Surface should be cleaned with alcohol-based (IPA) cleaner before application*

**Synthetic Rubber Adhesive*

***Note:*** *See product expiration date on packages with adhesive. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.*

## Two-and Four-Way Adhesive Mounting Base



- 4-way base for cable ties up to .184" maximum width and a two-way base for ties up to .301" maximum width
- May also be mounted with #8 size screw (2 holes)

| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING METHOD | MAX. TIE WIDTH ACCOM. | LENGTH IN./MM | WIDTH IN./MM | MATERIAL | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| **TC5347A** | **TC347A** | SRA* Adhesive | .30 | 1.13/28.58 | 1.13/28.58 | Nylon 6.6 | 100 | 1,000 |
| **TC5347AX** | **—** | SRA* Adhesive | .30 | 1.13/28.58 | 1.13/28.58 | UV Black | 100 | — |
| **—** | **TC347** | TC2PA/Screws | .30 | 1.13/28.58 | 1.13/28.58 | Nylon 6.6 | — | 1,000 |
| **—** | **TC347FR** | TC2PA/Screws | .30 | 1.13/28.58 | 1.13/28.58 | Flame-Retardant | — | 1,000 |
| **—** | **TC347X** | TC2PA/Screws | .30 | 1.13/28.58 | 1.13/28.58 | UV Black | — | 1,000 |

*Temperature Rating: 32° F to 120° F (0° C to 48° C)* **Synthetic Rubber Adhesive*

***Note:*** *See product expiration date on packages with adhesive. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.*

# Mounting Bases, Cable Ties and Accessories

## Great for securing cables!

### One-Piece Mounting Clamp



- Provides a fast and convenient method of securing bundles
- Single-piece design offers reduced installation time and maximized inventory control
- Integral top cover incorporates a unique ratchet design that is fully adjustable and releasable
- Available in a pressure-sensitive adhesive or screw mount design

| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | BASE STYLE | MAXIMUM HEIGHT (IN.) | CLAMPING AREA MINIMUM IN./MM | CLAMPING AREA MAXIMUM IN./MM | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|
| TC5349A-TB | TC349A-TB | SRA* Adhesive | .57 | .18 x .24/4.57 x 6.10 | .035 x .24/.89 x 6.10 | 100 | 1,000 |
| TC5350A-TB | TC350A-TB | SRA* Adhesive | .89 | .20 x .59/5.08 x 14.99 | .45 x .59/11.43 x 14.99 | 100 | 1,000 |
| TC5350-TB | — | Screw Mount (#8) | .89 | .20 x .59/5.08 x 14.99 | .45 x .59/11.43 x 14.99 | 100 | 1,000 |

• *Natural nylon color.*

**Synthetic Rubber Adhesive*

*Product Base is .94" x .94" (23.88 x 23.88 mm)*

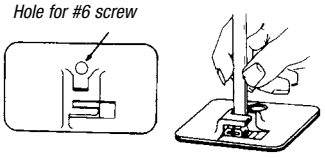
*For adhesive-back bases, temperature rating is 32° F to 120° F (0° C to 48° C)*

*For non-adhesive-back bases, temperature rating is -40° F to 185° F (-40° C to 85° C)*

***Note:*** *See product expiration date on packages with adhesive. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.*

## Simple to install!

### Snap-In Mounting Base for Preassembled Ties






| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING METHOD | MAX. TIE WIDTH ACCOM. | LENGTH IN./MM | WIDTH IN./MM | MATERIAL | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| TC5353A | TC353A | SRA* Adhesive | .190 | 2.00/50.80 | 1.00/25.40 | Nylon 6/6 | 25 | 500 |

• *Natural nylon color.*

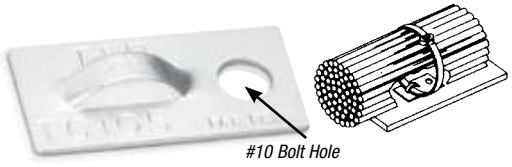
*Temperature Rating: 32° F to 120° F (0° C to 48° C).*

**Synthetic Rubber Adhesive.*

***Note:*** *See product expiration date on package. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.*

## Great for securing cables!

### Aluminum Mounting Plates




| STD. PKG. CAT. NO. | MOUNTING METHOD | WIDTH ACCOM. | MAX. TIE LENGTH ACCOM. | WIDTH IN./MM | MATERIAL | BULK PKG. QTY. |
|---|---|---|---|---|---|---|
| TC105 | TC2PA/Screws | .190 | 1.00/25.40 | .50/12.70 | Aluminum | 1,000 |
| TC824-TB | TC2PA | .190 | 1.38/34.93 | .38/.38 | Aluminum | 1,000 |
| 650-41349* | TC2PA/Screws | .190 | 1.38/34.93 | .38/.38 | Aluminum | 1,000 |
| 650-41863 | Adhesive | .190 | 1.38/34.93 | .38/.38 | Aluminum | 1,000 |

*Temperature Rating: 32° F to 150° F (0° C to 66° C).* **650-41349 has two holes for mounting.*

***Note:*** *See product expiration date on package. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.*

## Super strong adhesive!

### Mounting Base Adhesive




| STD. PKG CAT. NO. | DESCRIPTION | STD. PKG. QTY |
|---|---|---|
| TC2PA | Consists of one tube of adhesive and activator | 1 |

***Note:*** *See product expiration date on package. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.*



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# Mounting Bases, Cable Ties and Accessories

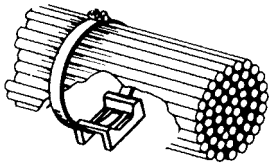


## Saddle Support Base

This mounting base provides a saddle for the wire run.
Ty-Rap® tie is threaded under bundle and tied in usual manner.
**Note:** For additional materials, see Technical Services.


TC5141


TC5142

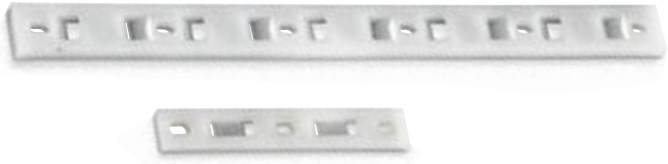


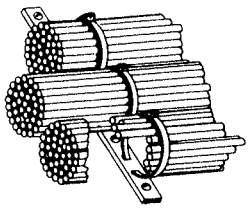
| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING METHOD | MAXIMUM TIE WIDTH ACCOM. | WIDTH IN./MM | LENGTH IN./MM | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|
| — | TC140 | #4 Pan Head | .091 | .344/8.74 | .563/14.30 | — | 500 |
| TC5141 | TC141*† | #6 Pan Head | .190 | .439/11.15 | .672/17.07 | 100 | 500 |
| TC5142 | TC142† | #10 Pan Head | .301 | .563/14.30 | .922/23.42 | 100 | 500 |

** Add suffix FR for flame-retardant material (TC141 only).* *†Add suffix X for UV Black material.*
*• Natural nylon color.*
*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

## Multiple-Bundle Mounting Strips

These nylon mounting strips for parallel installation of wire bundles can accommodate up to six closely spaced bundles.





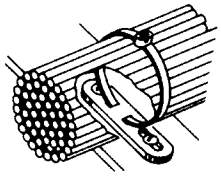
| STD. PKG. CAT. NO. | MAXIMUM MOUNTING METHOD | TIE WIDTH ACCOM. | WIDTH IN./MM | LENGTH IN./MM | CAPACITY (BUNDLES) | MIL. STD. PART NO. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|
| TC1101 | #6 Screws | .190 | .50/12.70 | 1.75/44.45 | 1 | MS3339-1 | 100 |
| TC1102 | #6 Screws | .190 | .50/12.70 | 3.00/76.20 | 2 | MS3339-2 | 100 |
| TC1103 | #6 Screws | .190 | .50/12.70 | 4.25/107.95 | 3 | MS3339-3 | 100 |
| TC1104 | #6 Screws | .190 | .50/12.70 | 5.50/139.70 | 4 | MS3339-4 | 100 |
| TC1105 | #6 Screws | .190 | .50/12.70 | 6.75/171.45 | 5 | MS3339-5 | 100 |
| TC1112 | #6 Screws | .301 | .63/15.88 | 9.60/243.84 | 6 | MS3339-11 | 100 |
| TC1113 | #6 Screws | .301 | .63/15.88 | 2.10/53.34 | 1 | MS3339-6 | 100 |
| TC1114 | #6 Screws | .301 | .63/15.88 | 3.60/91.44 | 2 | MS3339-7 | 100 |
| TC1115 | #6 Screws | .301 | .63/15.88 | 5.10/129.54 | 3 | MS3339-8 | 100 |
| TC1116 | #6 Screws | .301 | .63/15.88 | 6.60/167.64 | 4 | MS3339-9 | 100 |
| TC1117 | #6 Screws | .301 | .63/15.88 | 8.10/205.74 | 5 | MS3339-10 | 100 |

*• Natural nylon color.*
*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

## Provides a mounting range for bundles from ¼" through 4" in diameter!



## Single-Bundle Mounting Base



| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING METHOD | MAXIMUM TIE WIDTH ACCOM. IN./MM | WIDTH IN./MM | LENGTH IN./MM | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|
| — | TC101 | #10 Screws | .190/4.83 | .500/12.7 | 2.00/50.80 | — | 1,000 |
| TC503 | TC103 | ¼" Screws | .301/7.65 | .625/15.88 | 3.08/78.23 | 100 | 500 |

*The TC101 and TC103 nylon bases provide a mounting range for bundles from ¼" through 4" in diameter.*
*One mounting hole is slotted to permit adjustment of the bundle position up to the time of actual bundle installation.*

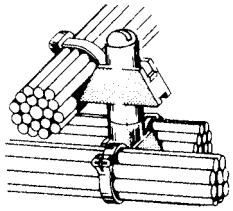
*• Natural nylon color.*
*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

# Mounting Bases, Cable Ties and Accessories

## Permits vertical stacking!

### Ty-Rap® Mounting Blocks





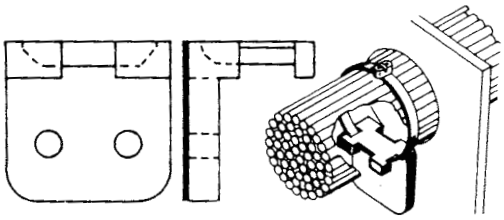
| BULK PKG. CAT. NO. | MOUNTING HOLE SIZE | TIE WIDTH ACCOM. | MAXIMUM WIDTH IN./MM | LENGTH IN./MM | BULK PKG. QTY. |
|---|---|---|---|---|---|
| TC115-TB | #10 | .190/4.83 | .47/11.91 | 1.00/25.40 | 1,000 |

*Mounting blocks permit vertical stacking and can be used in any direction.*
- *Natural nylon color.*

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

## Meets military specs as a support in bulkheads and walls!

### Right-Angle Bundle Support



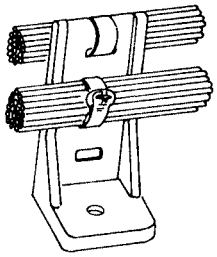
| BULK PKG. CAT. NO. | TIE WIDTH ACCOM. | MAXIMUM WIDTH IN./MM | LENGTH IN./MM | BULK PKG. QTY. |
|---|---|---|---|---|
| TC109 | .19/4.83 | .56/14.30 | .44/11.13 | 200 |
| TC106 | .30/7.62 | 1.00/25.40 | 1.00/25.40 | 1,000 |

*This style meets Military Specification requirements as a support at holes in bulkheads and walls. (MS3341)*
- *Natural nylon color.*

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

## Mount bundles on either side!

### Ty-Rap® Stand-Off Brackets





| STD. PKG. CAT. NO. | MAXIMUM TIE WIDTH ACCOM. | WIDTH IN./MM | LENGTH IN./MM | STD. PKG. QTY. |
|---|---|---|---|---|
| TC375 | .19/4.83 | .75/19.05 | 3.65/92.71 | 100 |
| TC375X (WEATHERABLE) | .19/4.83 | .75/19.05 | 3.65/92.71 | 100 |
| TC376 | .19/4.83 | .67/17.01 | 1.75/44.45 | 100 |

*These brackets permit bundles to be mounted on either side. They also serve as means to raise bundles off the surface.*
- *Natural nylon color.*

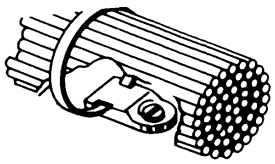
*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*
*Weatherable nylon is black.*

## Ideal for high-density packaging!

### Low-Profile Two-Way Miniature Mounting Bases

- Simply slip Ty-Rap® cable tie under slot in fastened mount, and attach bundle





| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING METHOD | MAXIMUM TIE WIDTH ACCOM. | WIDTH IN./MM | LENGTH IN./MM | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|
| TC502 | TC102 | #8 screw | .19 | .50/12.70 | .75/19.05 | 100 | 1,000 |
| — | TC104 | #5 screw | .09 | .32/8.03 | .41/10.31 | — | 1,000 |
| — | TC804-TB | #2 screw | .09 | .32/8.03 | .40/10.31 | — | 1,000 |
| — | TC112-TB | #8 screw | .19 | .38/9.53 | .75/19.05 | — | 1,000 |
| — | TC812-TB | #10 screw | .19 | .38/9.53 | .75/19.05 | — | 1,000 |
| — | TC814-TB | #5 screw | .19 | .38/9.53 | .75/19.05 | — | 1,000 |

*Threaded insert permits screw to come from outside of mounting surface.*
- *Natural nylon color.*

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*



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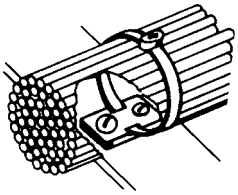
# Mounting Bases, Cable Ties and Accessories



## Installs in-line with the wire bundle!

### In-Line Mounting Base





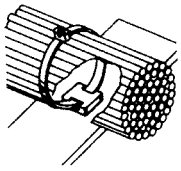
| BULK CAT. NO. | MOUNTING METHOD | WIDTH ACCOM. IN./MM | MAX. TIE WIDTH IN./MM | LENGTH IN./MM | BULK PKG. QTY. |
|---|---|---|---|---|---|
| TC815-TB | #10 screws | .30/7.62 | .75/19.05 | 1.13/28.58 | 500 |

*A standard 2-hole base that installs in-line with the wire bundle that conceals it.*
- *Natural nylon color.*

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

### Miniature Base





| BULK PKG. CAT. NO. | MOUNTING METHOD | MAX. TIE WIDTH ACCOM. | LENGTH IN./MM | WIDTH IN./MM | MATERIAL | BULK PKG. QTY. |
|---|---|---|---|---|---|---|
| TC817-TB | TC2PA | .19 | .44/11.10 | .44/11.10 | Nylon 6/6 | 1,000 |

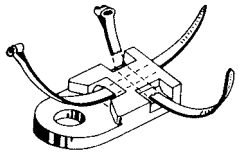
- *Natural nylon color.*

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

## Handles ties installed in either direction!

### Low-Profile Four-Way Mounting Base





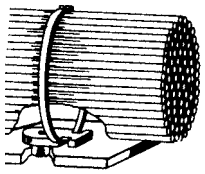
| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING METHOD | MAXIMUM TIE WIDTH ACCOM. | WIDTH IN./MM | LENGTH IN. | STD. PKG. | BULK PKG. |
|---|---|---|---|---|---|---|---|
| — | TC826-TB* | #8 screw | .19 | .50/12.70 | 1/25.40 | — | 1,000 |
| TC5828 | TC828-TB* | #8 screw | .19 | .39/9.91 | .88/22.23 | 100 | 1,000 |

*The TC826-TB mounting base can be used to tie bundles running parallel or perpendicular to length of base.*
*The TC828-TB mounting plate also handles ties installed in either direction and is somewhat smaller than TC826.*
**Natural nylon color is standard. Replace TB with 0 suffix for black color.*
*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

## Firmly locks into position when projecting pin is pushed into the mounting hole.

### Self-Riveting Base



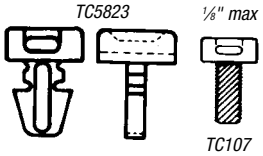


| BULK PKG. CAT. NO. | MOUNTING HOLE PKG. SIZE | MAX. TIE WIDTH ACCOM. | WIDTH IN./MM | LENGTH IN./MM | MATERIAL | BULK PKG. QTY. |
|---|---|---|---|---|---|---|
| TC116-TB | .146 | .190 | .5/12.7 | .75/19.05 | Nylon 6.6 (Red) | 1,000 |
| TC116-0 | .146 | .190 | .5/12.7 | .75/19.05 | Nylon 6.6 (Black) | 1,000 |
| TC118-TB | .169 | .190 | .5/12.7 | .75/19.05 | Nylon 6.6 (Blue) | 1,000 |
| TC120 | .196 | .190 | .5/12.7 | .75/19.05 | Nylon 6.6 (Yellow) | 1,000 |

*Slip tie under base to attach bundle.*
*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

# Mounting Bases, Cable Ties and Accessories

## Push-In and Bolted Bases







| STD. PKG CAT NO. | STD. PKG CAT NO. | MOUNTING HOLE SIZE | MAXIMUM TIE WIDTH ACCOM. | WIDTH IN./MM | LENGTH IN./MM | STD. PKG. QTY | BULK PKG. QTY |
|---|---|---|---|---|---|---|---|
| **TC5823** | **TC823-TB** | ¼ | .190 | .44/11.13 | .63/15.88 | 100 | 1,000 |
| — | **TC107**† | #10-32 thd | .190 | .44/11.13 | .69/15.88 | — | 1,000 |

† *Not UL Recognized.*

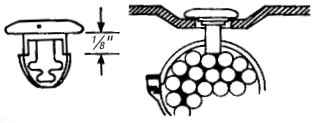
- *Natural nylon color.*

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

## Snap-In Mounting Base Cap

Snap-in, premountable base for securing wire bundles in cabinets maintains the attractive external appearance of the equipment housing — TC121 Snap-Cap.




*⅛" maximum panel thickness*

| BULK PKG. CAT. NO. | MOUNTING HOLE PKG. SIZE | MAX. TIE WIDTH ACCOM. | WIDTH IN./MM | LENGTH IN./MM | MATERIAL | BULK PKG.QTY. |
|---|---|---|---|---|---|---|
| **TC121-TB** | .250 | .190 | .445/11.30 | .415/10.54 | Nylon 6.6 | 1,000 |
| **TCH121**† | .250 | .190 | .445/11.30 | .415/10.54 | Nylon 6.6 Heat Stabilized | 1,000 |
| **TCH121-0**† | .250 | .190 | .445/11.30 | .415/10.54 | Nylon 6.6 Black Heat Stabilized | 1,000 |

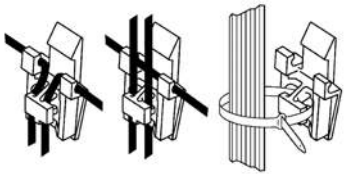
† *Not UL Recognized.*

- *Natural nylon color.*

*Nylon 6.6 for use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*
*Heat stabilized for use in temperatures ranging from -40° F to 221° F (-40° C to 105° C).*

## Weather resistant and transparent!

## Aluminum Siding Clip








| STD. PKG. CAT. NO. | WIRE ACCOMMODATION | STD. PKG. QTY. |
|---|---|---|
| **TC201** | ⅛" Diameter Wire (2-pair station wire) | 50 |

*Material:*

- *Transparent — Color and texture of siding shows through.*
- *Material — Weather-resistant grade polycarbonate.*
- *Designed to accommodate PITTSBURG INTERLOCK metal siding.*
- *Accommodates wires both vertically and/or horizontally.*
- *Provision for utilizing Ty-Rap® cable ties to secure large diameter bundles.*



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# Mounting Bases, Cable Ties and Accessories



## Designed for indoor or outdoor use and heavy-duty applications.

### Framing Channel Clamp



- Quick and easy to install on existing metal framing channel
- Installs with a push and twist
- Smooth design protects cable insulation
- Takes range of cable diameters

When fastening wire bundles, cables or hoses to framing channels, you can cut costs considerably by using the Ty-Rap® cable clamp. It's made of smooth, weather-resistant nylon and designed to protect cable insulation and hoses from wear or damage, which can occur with metal clamps. The clamp may be used for both indoor or outdoor applications. It quickly installs in the framing channel with a simple push and twist. It requires no screws, nuts or tools. The clamp fits all 1½" and 1⅝" channels regardless of channel depth.







| STD. PKG. CAT. NO. | CHANNEL SIZE (IN.) | MAXIMUM TIE WIDTH ACCOM. | STD. PKG. QTY. |
|---|---|---|---|
| TC5363X | 1½ & 1⅝ | .301/7.65 | 50 |

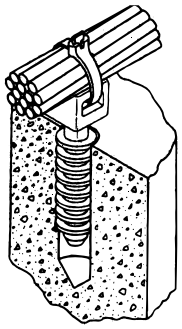
• *Made from high-impact weather-resistant black nylon*
*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

## Specially designed head is range-taking.

### Ty-Rap® Mounting Base for Masonry and Brick Surfaces



- Quick, easy installation without cumbersome adhesives or epoxies
- Provides a quick, easy and dependable means of attaching cable and wires to masonry surfaces
- Installs by tapping it into a drilled hole
- It's immediately ready to accept a cable tie and wire bundle — no tedious surface preparation; no waiting for adhesives to set
- Replaces a variety of anchors, clamps, screws and adhesives
- Designed for both indoor and outdoor applications
- Only two sizes to stock — reduces inventory



| STD. PKG. CAT. NO. | HOLE SIZE IN MASONARY | MAXIMUM TIE WIDTH ACCOM. | STD. PKG. QTY. |
|---|---|---|---|
| TC5358 | ¼ | .190/4.83 | 100 |
| TC5359 | ⅜ | .500/12.70 | 50 |

• *Made of a special impact and ultraviolet-resistant black nylon*
*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

## Weather resistant!

### Ty-Rap® Mounting Base for Lashing Tie

- For use with lashing ties up to .500" width (i.e. TY5409)
- High impact



WEATHER RESISTANT

| STD. PKG. CAT. NO. | MOUNTING METHOD | TIE WIDTH ACCOM. | MAXIMUM WIDTH IN./MM | LENGTH IN./MM | STD. PKG. QTY. |
|---|---|---|---|---|---|
| TC5355 | #8 screw | .500/12.70 | .750/19.05 | 1.750/44.45 | 25 |
| TC5356 | #10 screw | .500/12.70 | .750/19.05 | 1.750/44.45 | 25 |
| TC5357 | ¼" screw | .500/12.70 | .750/19.05 | 1.750/44.45 | 25 |

• *Black nylon construction*
*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

# A fast and simple harnessing method for neat, versatile wire management.

## Stud Mounting System

- Great for harnessing wires, cables and hoses to truck and trailer chassis
- Fast, easy installation, using standard ⅜" power drill and application tool or simply hammer on
- Unlimited harnessing flexibility using conventional T&B cable ties
- Custom drill bit quickly installs base to proper torque — won't crack or break mounting base due to being overtightened
- Unique 4-way multi-directional design
- 10-position harness capability
- Available for ⅜", ½", ⅝", and ¾" stud/bolt sizes
- Self-tapping thread design for reliable installation onto stud
- High pull-out strength of 500+ lbs.

**Thomas & Betts Stud Mount Fastening System** is a fast and simple harnessing method for neat, versatile, cord, cable, hose, and wire management. Using a custom drill bit for your ⅜" power drill, the Stud Mount base is quickly attached onto a threaded stud or bolt to the proper torque—every time. The innovative "X" design of the base reliably supports many types of cable or hose assemblies using a wide range of conventional T&B cable ties. Designed with 10 separate lashing positions, the Stud Mount offers unlimited wire harnessing arrangements. T&B's Stud Mount is available in four convenient stud bolt sizes.




The Stud Mount Cable Fastening System includes a range of bases and the custom drill bit that mounts all sizes.



During installation, the custom Stud Mount drill bit application tool ejects itself from mounting base, ensuring proper torque and preventing cracking or breaking of the mount from being overtightened.



Virtually unlimited harnessing flexibility is provided in the unique 10-position harness design of the Stud Mount base.

| BULK PKG. CAT. NO. | DESCRIPTION | STUD SIZE | MATERIAL | COLOR | BULK PKG. |
|---|---|---|---|---|---|
| **XMNY-375-0-D** | Mount Fastener | ⅜ | Nylon, UV Stabilized | Black | 500 |
| **XMNY-500-0-D** | Mount Fastener | ½ | Nylon, UV Stabilized | Black | 500 |
| **XMNY-625-0-D** | Mount Fastener | ⅝ | Nylon, UV Stabilized | Black | 500 |
| **XMNY-750-0-D** | Mount Fastener | ¾ | Nylon, UV Stabilized | Black | 500 |
| **WTXM** | Application Tool | — | Tool Steel | — | 1 |

- *Material: Impact-resistant weatherable black nylon*
  *For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*



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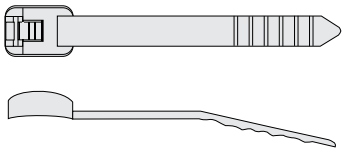
www.tnb.com

# Safety, Reusable and Double-Loop Cable Ties

## Ideal for precision bundling!

### Low-Profile All-Nylon 6.6 Ties

This fastener design from Thomas & Betts is ideal for use where clearance is a necessity and allows for easy pull-through in bulkheads and other tight spaces. Our contoured head eliminates snagging, and sharp edges are reduced by our safeguard walls.



- Low-profile, contoured head reduces clearance required for the bundle and enhances the appearance of your harness
- The safeguard wall eliminates exposure to sharp edges
- The saddleback fits snug against the contour of the wiring harness
- Sizes and colors available to accommodate varying requirements



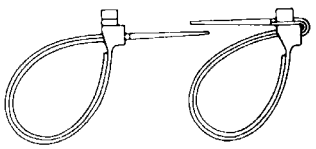
Low-profile contoured head compared with the profile of a common cable tie.

| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MATERIAL | BUNDLE RANGE DIA. IN./MM | TENSILE STRENGTH LBS./N | TIE LENGTH IN./MM | STRAP WIDTH IN./MM | STRAP THICK IN./MM | STD. PKG. QTY. | BULK. PKG. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| — | **SF100-18** | Natural | .13/3.3–1.00/25.4 | 18/80.07 | 4.65/118.11 | .095/2.41 | .04/1.09 | — | 1,000 |
| **SF100-18X-100** | **SF100-18X** | UV Black | .13/3.3–1.00/25.4 | 18/80.07 | 4.65/118.11 | .095/2.41 | .04/1.09 | 100 | 1,000 |
| — | **SF200-18** | Natural | .13/3.3–2.00/50.8 | 18/80.07 | 8.10/205.74 | .1/2.41 | .04/1.09 | — | 1,000 |
| — | **SF200-18X** | UV Black | .13/3.3–2.00/50.8 | 18/80.07 | 8.10/205.74 | .1/2.41 | .04/1.09 | — | 1,000 |
| — | **SF175-50** | Natural | .19/4.8–1.75/44.45 | 50/222.4 | 7.70/195.58 | .19/4.75 | .05/1.22 | — | 1,000 |
| — | **SF175-50X** | UV Black | .19/4.8–1.75/44.45 | 50/222.4 | 7.70/195.58 | .19/4.75 | .05/1.22 | — | 1,000 |
| — | **SF175-50FR** | Flame Retardant | .19/4.8–1.75/44.45 | 50/222.4 | 7.70/195.58 | .19/4.75 | .05/1.22 | — | 1,000 |
| — | **SF300-50X** | UV Black | .19/4.8–3.00/76.2 | 50/222.4 | 11.33/287.78 | .19/4.75 | .05/1.22 | — | 1,000 |
| — | **SF400-50** | Natural | .19/4.8–4.00/101.6 | 50/222.4 | 14.53/369.06 | .19/4.75 | .05/1.22 | — | 1,000 |
| — | **SF400-120X** | UV Black | .38/9.6–4.00/101.6 | 120/533.8 | 14.58/370.33 | .30/7.62 | .07/1.78 | — | 500 |

## Use these ties again and again!

### Ty-Rap® Reusable Ties





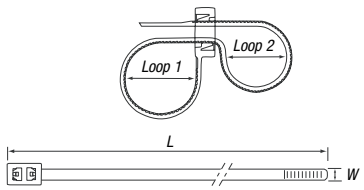
| STD. PKG. CAT. NO. | BODY WIDTH IN./MM | LENGTH IN./MM | BUNDLE DIA. IN./MM | TENSILE STRENGTH LBS./N | STD PKG. QTY. |
|---|---|---|---|---|---|
| **TYR505** | .18/4.57 | 7.50/190.50 | 1.75/1.75 | 50/222.40 | 100 |
| **TYR508** | .18/4.57 | 14.30/363.22 | 4.00/101.60 | 50/222.40 | 100 |

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*
- *Natural nylon color*

## Double Loop 6.6 Nylon Tie

**Advantages:**

- Enables parallel routing of two cable bundles with one single cable tie!
- Halogen- and silicone-free to meet your application needs
- Quick and easy pull-through increases productivity, reduces operator fatigue








| BULK PKG. CAT. NO. | LENGTH IN./MM | WIDTH IN./MM | BUNDLE DIAMETER RANGE | | TENSILE STRENGTH (LB/N) | INSTALLATION TOOLING FOR ALL SIZES | BULK PKG. |
|---|---|---|---|---|---|---|---|
| | | | LOOP 1 IN./MM | LOOP 2 IN./MM | | | |
| **TB-12-50RLDH** | 11.8/299.72 | .19/4.83 | .1/2.54–2.8/71.12 | .1/2.54–2.7/68.58 | 50/222.4 | ERG50 | 1,000 |

- *Natural nylon color*

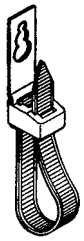
*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

# Messenger and Lashing Ties and Straps

## Resistant to UV light, chemicals, and lower in moisture absorption.

### Weather-Resistant Nylon 12 Messenger Hanger and Hanger Straps (Releasable)

Nylon 12 is a lower moisture-absorbing material than 6.6 nylon — making the effect of water on properties much less.



*Weather-Resistant, Nylon 12 Messenger Hanger Straps (releasable)*






| STD. PKG. CAT. NO. | BODY WIDTH IN./MM | LENGTH IN./MM | MAX. WIRE BUNDLE DIA. IN./MM | HOOK MATERIAL | TENSILE STRENGTH LBS./N | STD. PKG. QTY. |
|---|---|---|---|---|---|---|
| ***Weather-Resistant Nylon 12 Messenger Hanger Straps (Releasable)*** | | | | | | |
| **TYM5412X** | .5/12.7 | 12/304.8 | 3/76.2 | Bronze | 200/889.6 | 50 |
| **TYM5418X** | .5/12.7 | 18/457.2 | 5/127 | Bronze | 200/889.6 | 25 |
| **TYM5423X** | .5/12.7 | 24/609.6 | 7/177.8 | Bronze | 200/889.6 | 25 |
| **TYM5430X** | .5/12.7 | 30/762.0 | 9/228.6 | Bronze | 200/889.6 | 25 |
| **TYM5412X-S** | .5/12.7 | 12/304.8 | 3/76.2 | 304 Stainless Steel | 200/889.6 | 50 |
| **TYM5418X-S** | .5/12.7 | 18/457.2 | 5/127 | 304 Stainless Steel | 200/889.6 | 25 |
| **TYM5423X-S** | .5/12.7 | 24/609.6 | 7/177.8 | 304 Stainless Steel | 200/889.6 | 25 |
| **TYM5430X-S** | .5/12.7 | 30/762.0 | 9/228.6 | 304 Stainless Steel | 200/889.6 | 25 |
| **TYM5436X-S** | .5/12.7 | 36/914.4 | 11/279 | 304 Stainless Steel | 200/889.6 | 25 |
| ***Weather-Resistant Nylon 12 Hanger Strap (Releasable)*** | | | | | | |
| **TY54407X** | .5/12.7 | 6.36/151.54 | 2/50.8 | Steel | 200/889.6 | 50 |
| **TY54413X** | .5/12.7 | 13.75/349.25 | 4/101.6 | Steel | 200/889.6 | 25 |

*The recommended maximum continuous static loading for the nylon 12 straps is 25 lbs. per strap. For best results, suggested spacing is 15". It's the responsibility of the user to determine whether or not their application meets our recommendation. Hook will accommodate ½" dia. messenger wire.*

- *Color – Black* *For use in temperatures ranging from -40° F to 176° F (-40° C to 80° C).*

### Heavy-Duty Lashing Tie (Releasable)







- Heavy-duty and made of weather-resistant nylon
- For use in temperatures ranging from -40° F to 176° F (-40° C to 80° C)

| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | BODY WIDTH IN./MM | LENGTH IN./MM | MAX. WIRE BUNDLE DIA. IN./MM | TENSILE STRENGTH LBS./N | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|
| **TY5409** | **TY409** | .5/12.7 | 19/482.6 | 4.75/120.65 | 200/889.6 | 25 | 100 |



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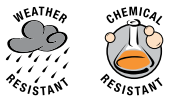
**Technical Services**
Tel: 888.862.3289

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## Messenger and Lashing Ties and Straps

# An absolute in chemical environments — and it floats!

## Weather-Resistant Polypropylene Lashing Ties with Releasable Heads

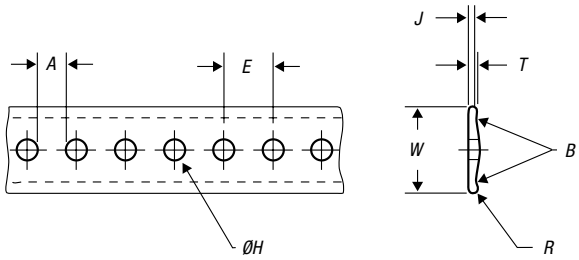



- Excellent chemical resistance
- Buoyant — will float on most surfaces
- Made of black weather-resistant polypropylene for outdoor use
- Locking heads made of UV-resistant nylon
- For use in temperatures ranging from -40° F to 176° F (-40° C to 80° C)



| STD. PKG. CAT. NO. | BODY WIDTH IN./MM | LENGTH IN./MM | MAX. WIRE BUNDLE DIA. IN./MM | TENSILE STRENGTH LBS./N | STD. PKG. QTY. |
|---|---|---|---|---|---|
| ***Weather-Resistant Polypropylene Lashing Tie (Releasable)*** | | | | | |
| **TY5418PX** | .5/12.7 | 18/457.2 | 5/127.0 | 150/667.2 | 25 |
| **TY5424PX** | .5/12.7 | 24/609.6 | 7/177.8 | 150/667.2 | 25 |
| **TY5442PX** | .5/12.7 | 42/1066.8 | 12/304.8 | 150/667.2 | 10 |
| **TY5460PX** | .5/12.7 | 60/1524 | 18/457.2 | 150/667.2 | 10 |
| ***Weather-Resistant Polypropylene Hanger Lashing Tie (Releasable)*** | | | | | |
| **TY53418PX** | | .5/12.7 | 18/457.2 | 5 | 25 |

## Weather-Resistant Polypropylene Strapping and Accessories




| STRAPPING CAT. NO. | MATERIAL | DIMENSIONS (IN.) A | B | E | H | J | R | T | W | STRAP-TITE BUCKLE | MOUNTING TAB | MACHINE SCREW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **S2NY-096-0-C** | Black Nylon | .091 ± .010 | .189 | .187 | .096 ± .003 | .023 ± .003 | .016 | .031 ± .003 | .284 ± .012 | — | — | #2 |
| **S4NY-167-0-C** | Black Nylon | .145 ± .020 | .189 | .312 | .167 ± .005 | .033 ± .003 | .022 | .045± .003 | .375 ± .010 | — | — | #8 |
| **S6NY-203-0-C** | Black Nylon | .187 ± .020 | .189 | .390 | .203 ± .005 | .045 ± .005 | .030 | .060 ± .005 | .490 ± .015 | B6NY-203-0-D | M6NY-265-0-D | #10 |

## Deltec® Cable Tie and Support System

# Designed to perform a minimum of 20 years outdoors down to -65° C.

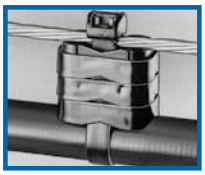
## The Deltec® Cable Tie and Support System



Lost-time accidents and downtime are often the result of using traditional metal bundling and support systems for high strength and harsh environment applications. Metal support systems can be both difficult and dangerous to install. They can also nick or cut through cable insulation. Insulation failures lead to dangerous and costly situations. There are few options outside of traditional metal for bundling and supporting cable that will withstand the harshest of environments and offer extended outdoor life.

In response to the demand for a better solution, Thomas & Betts engineers developed the Deltec® Cable Support System. The Deltec® System is safe and easy to install with a guaranteed weatherable life, even at temperatures as low as -85° F.

A three-piece, three-material engineered design provides the ideal solution for bundling in harsh outdoor environments. The Deltec® System combines the strength and rigidity of an injection-molded head with marine-grade copper barbs and a soft and pliable, stress-resistant, extruded body. The unique multi-piece design with separate head and strapping also allows installers to select and customize the strap length for any application. The Deltec® System provides the ultimate in cable support and management for your most demanding applications.







### Advantages of the Deltec® System Include:

- Designed to perform a minimum of 20 years outdoors
- Continuous use temperature: -85° F to 194° F (-65° C to 90° C)
- No sharp edges
- Perfect for coaxial, fiber optic and all other communication and electrical conducting cables
- Total flexibility in length when using reel
- Extruded body provides total flexibility in length from 10" to 5,000 feet
- Made in the USA
- Rodents and other pests won't eat it
- Strap and Body: Weatherable acetal; offers superior resistance to sunlight, moisture and salt environments
- Locking Device: Marine-grade corrosion-resistant copper alloy
- Installation Temperature Range: -30° F to 150° F (-34° C to 66° C)
- Minimum Tensile Strength: 250 lbs. (1,211 N)
- Continuous Load: 20 lbs. (9.07 kg)

## Extra security!

### Deltec® Cable Tie with Double-Locking Head

The recommended maximum continuous static loading for the Deltec® straps is 20 lbs. per strap. For best results, suggested spacing is 15". It's the responsibility of the user to determine whether or not their application meets our recommendation.

***Note:*** *Use WT3D Tool for tensioning and cutoff.*



### Specifications

- Strap and Body: Weatherable acetal; offers superior resistance to sunlight, moisture and salt environments
- Locking Device: Marine-grade corrosion-resistant copper alloy
- Installation Temperature Range: -30° F to 150° F (-34° C to 66° C)
- Continuous Use Temperature: -85° F to 194° F (-65° C to 90° C)
- Minimum Tensile Strength: 250 lbs. minimum (1,211 N)
- Service Life: Designed to last a minimum of 20 years outdoors
- Continuous Load: 20 lbs. (9.07 kg)
- Color: Black

| STD. PKG. CAT. NO. | BODY WIDTH IN./MM | LENGTH IN./MM | MAX BUNDLE DIA. IN./MM | TENSILE STRENGTH LBS./N | STD. PKG. QTY. |
|---|---|---|---|---|---|
| CSS-100 | .5/12.70 | 10/254.00 | 3/76.20 | 250/1,112 | 50 |
| CSS-135 | .5/12.70 | 13.5/342.90 | 3.5/88.90 | 250/1,112 | 50 |
| CSS-160 | .5/12.70 | 16/406.40 | 4/101.60 | 250/1,112 | 50 |
| CSS-270 | .5/12.70 | 27/685.80 | 8/203.20 | 250/1,112 | 25 |



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# Deltec® Cable Tie and Support System

## Cut to the length you need!

### Deltec® Strap Dispenser on Reels




| STD PKG. CAT. NO. | DESCRIPTION | TENSILE STRENGTH LBS./N | BODY WIDTH IN./MM | STD. PKG. QTY. |
|---|---|---|---|---|
| **CSS-50R** | 50' Reel of Strap | 250/1,112 | .50/12.70 | 1 |
| **696-41794** | 1,000' Reel of Strap | 250/1,112 | .50/12.70 | 1 |
| **696-41952** | 3,500' Reel of Strap | 250/1,112 | .50/12.70 | 1 |

## One spacer for any cable size!

### Modular Stackable Cable Spacers

- Stackable for any desired spacing
- Less inventory — one catalog number
- ½" high



| STD PKG. CAT. NO. | DESCRIPTION | STD. PKG. QTY. |
|---|---|---|
| **TCP5255** | Modular Stackable Spacer for Deltec® Straps | 25 |
| **TCP360** | For Coaxial Cable | 100 |

- *Made of weather-resistant polypropylene*
- *Color — Black*

## Heads for Deltec® strap!

### Locking Heads



| STD PKG. CAT. NO. | DESCRIPTION | STD. PKG. QTY. |
|---|---|---|
| **CSS-LH** | Heads only for Deltec® Strap | 25 |
| **696-41795** | Heads only for Deltec® Strap | 1,000 |

- *Made of weatherable acetal*
- *Color — Black*

## Secures cables to all types of surfaces.

### Deltec® Base and Hanger




| STD PKG. CAT. NO. | DESCRIPTION | STD. PKG. QTY. |
|---|---|---|
| **CSS-B** | Base for Deltec® Strap | 50 |
| **CSS-H** | Hanger for Deltec® Strap | 50 |

- *Made of zinc-plated steel*

## Install ties easily!

### Installation/Cutting Tool



| STD PKG. CAT. NO. | DESCRIPTION | RANGE | WT. EACH | STD. PKG. QTY. |
|---|---|---|---|---|
| **WT3D** | Installs self-locking Ty-Rap® cable ties, lashing ties and Deltec® System | .184 thru .500 | 8 oz. | 1 |

*Twist tool handle one-half turn to cut strapping.*

# Ty-Rap® High-Performance Stainless Steel Cable Ties

## Engineered Ty-Rap® Tough to Withstand the World's Harshest Environments!





Ty-Rap®

## Stainless Steel Cable Ties

**Ball-Lock Ties**
- Polyester-coated 316 grade (marine-grade) stainless steel
- Uncoated 302/304 grade stainless steel
- Uncoated 316 grade (marine-grade) stainless steel

**Roller-Locking Ties**
- Uncoated 302/304 grade stainless steel
- Uncoated 316 grade (marine-grade) stainless steel

**Dual-Lock Ties**
- Uncoated 304 grade stainless steel
- Also available in uncoated 316 grade stainless steel

**Re-Usable Ties**
- Nylon 11-coated 200/300 series stainless steel
- Also available in nylon 11-coated 316 grade stainless steel

**Free-End Clamps**
- Uncoated 201 grade stainless steel

**Multi-Lok Stainless Steel Self-Locking Ties**
- Nylon-coated 316 grade stainless steel
- Uncoated 316 grade stainless steel

**Stainless Steel Strap Ties**
- Uncoated 316 grade stainless steel



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**Technical Services**
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## Ty-Rap® High-Performance Stainless Steel Cable Ties

# Safe and easy to install! Designed for continuous exposure to salt spray, sunlight, petroleum and chemicals!

# Ty-Rap® Polyester-Coated Stainless Steel Ball-Lock Cable Ties



Stainless steel offers excellent strength, durability and corrosion-resistance properties. But to stand up to the harshest environments in the world, such as those found on offshore drilling rigs, petroleum refineries, shipyards and chemical processing plants, even stainless steel needs an added layer of protection. That's why Ty-Rap® has added coated ties to its line of stainless steel cable ties. These new ties offer the same easy-to-install, low-profile, secure ball-lock mechanism as standard Ty-Rap® stainless steel ball-lock ties, but they're fully coated with a layer of rugged polyester to seal out salt, moisture, chemicals and UV radiation. Put these Ty-Rap® tough ties to the test against the elements in your harshest applications!

- 316 grade (marine-grade) stainless steel construction for strength and durability
- Fully coated with polyester to resist corrosion, UV radiation, temperature extremes, chemicals, impact, abrasion and cracking
- Rolled wire versus traditional slot steel to ensure no sharp edges
- Low-smoke, halogen-free polyester coating offers added personnel safety
- Pointed tail enables fast, easy insertion
- Low-profile ball in wedge-shaped head locks tie securely in place
- Wide operating temperature range of -40˚ F to 302˚ F (-40˚ C to 150˚ C)
- Certifications/Standards: Lloyds Register, DNV, GL, CE, RoHS

| CAT. NO. | LENTH (IN/MM) | WIDTH (IN/MM) | MAX. BUNDLE DIA. (IN/MM) | TENSILE STRENGTH (IN/MM) | STD. PKG. QTY. |
|---|---|---|---|---|---|
| ***316 Grade Stainless Steel — Fully Polyester Coated*** | | | | | |
| **LS-4.6-200-C** | 7.9/201 | .18/4.6 | 2/51 | 100/444.8 | 100 |
| **LS-4.6-260-C** | 10.2/259 | .18/4.6 | 27/69 | 100/444.8 | 100 |
| **LS-4.6-360-C** | 14.3/362 | .18/4.6 | 4/102 | 100/444.8 | 100 |
| **LS-4.6-520-C** | 20.5/521 | .18/4.6 | 6/152 | 100/444.8 | 100 |
| **LS-4.6-680-C** | 26.8/679 | .18/4.6 | 8/203 | 100/444.8 | 100 |
| **LS-7.9-200-C** | 7.9/201 | .31/7.9 | 2/51 | 250/1112 | 50 |
| **LS-7.9-360-C** | 14.3/362 | .31/7.9 | 4/102 | 250/1112 | 50 |
| **LS-7.9-520-C** | 20.5/521 | .31/7.9 | 6/152 | 250/1112 | 50 |
| **LS-7.9-680-C** | 26.8/679 | .31/ 7.9 | 8/203 | 250/1112 | 50 |

## Ty-Rap® High-Performance Stainless Steel Cable Ties

# Safe and easy to install!
# Ty-Rap® Ball-Lock Stainless Steel Ties



These one-piece, self-locking stainless steel cable ties offer quick and easy installation — no crimping or folding required — and a strong, reliable lock. Choose among a variety of sizes and materials to meet all of your wire and cable bundling needs, even in the most extreme environments.

**Fast, easy installation**

- Self-locking — no time-consuming crimping or folding
- Stainless steel ball in low-profile, wedge-shaped head locks tie securely in place
- Angled tail enables fast, easy insertion
- Rounded edges and smooth surfaces protect installer's hands

**Two materials suit a variety of environments**

- 302/304 grade stainless steel for standard applications
- 316 grade (marine-grade) stainless steel for extra corrosion resistance

**Typical Applications**

- Offshore drilling
- Petrochemical processing
- Shipbuilding
- Food and beverage processing
- Pharmaceutical processing

**Specifications**

- Operating Temp. Range:
  -112° F to 1,000° F (-80° C to 538° C)

**Application Tool**

**DAS250 HAND TOOL**

(Adjustable tension, automatic cut-off)



| CAT. NO. | LENTH (IN/MM) | WIDTH (IN/MM) | MAX. BUNDLE DIA. (IN/MM) | TENSILE STRENGTH (IN/MM) | STD. PKG. QTY. |
|---|---|---|---|---|---|
| ***302/304 Grade Stainless Steel — Uncoated*** | | | | | |
| **LS-4.6-200A** | 7.9/201 | .18/4.6 | 2/51 | 100/444.8 | 100 |
| **LS-4.6-260A** | 10.2/259 | .18/4.6 | 2.9/69 | 100/444.8 | 100 |
| **LS-4.6-360A** | 14.2/360 | .18/4.6 | 4 /102 | 100/444.8 | 100 |
| **LS-4.6-520A** | 20.5/520 | .18/4.6 | 6/152 | 100/444.8 | 100 |
| **LS-4.6-680A** | 26.7/679 | .18/4.6 | 8/203 | 100/444.8 | 100 |
| **LS-4.6-840A** | 33.0/838 | .18/4.6 | 10/254 | 100/444.8 | 100 |
| **LS-7.9-200A** | 7.9/201 | .31/7.9 | 2/51 | 250/1112 | 50 |
| **LS-7.9-360A** | 14.2/360 | .31/7.9 | 4/102 | 250/1112 | 50 |
| **LS-7.9-520A** | 20.5/520 | .31/7.9 | 6/152 | 250/1112 | 50 |
| **LS-7.9-680A** | 26.7/679 | .31/7.9 | 8/203 | 250/1112 | 50 |
| **LS-7.9-840A** | 33.0/838 | .31/7.9 | 10/254 | 250/1112 | 50 |
| **LS-7.9-1010A** | 41.3/1050 | .31/7.9 | 12.5/318 | 250/1112 | 50 |
| ***316 Grade Stainless Steel — Uncoated*** | | | | | |
| **LS-4.6-200B** | 7.9/201 | .18/4.6 | 2/51 | 100/444.8 | 100 |
| **LS-4.6-260B** | 10.2/259 | .18/4.6 | 2.7/69 | 100/444.8 | 100 |
| **LS-4.6-360B** | 14.2/360 | .18/4.6 | 4 /102 | 100/444.8 | 100 |
| **LS-4.6-520B** | 20.5/520 | .18/4.6 | 6/152 | 100/444.8 | 100 |
| **LS-4.6-680B** | 26.7/679 | .18/4.6 | 8/203 | 100/444.8 | 100 |
| **LS-4.6-840B** | 33.0/838 | .18/4.6 | 10/254 | 100/444.8 | 100 |
| **LS-7.9-200B** | 7.9/201 | .31/7.9 | 2/51 | 250/1112 | 50 |
| **LS-7.9-360B** | 14.2/360 | .31/7.9 | 4/102 | 250/1112 | 50 |
| **LS-7.9-520B** | 20.5/520 | .31/7.9 | 6/152 | 250/1112 | 50 |
| **LS-7.9-680B** | 26.7/679 | .31/7.9 | 8/203 | 250/1112 | 50 |
| **LS-7.9-840B** | 33.0/838 | .31/7.9 | 10/254 | 250/1112 | 50 |
| **LS-7.9-1010B** | 41.3/1050 | .31/7.9 | 12.5/318 | 250/1112 | 50 |



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# Ty-Rap® High-Performance Stainless Steel Cable Ties

## Multiple barb lock design!

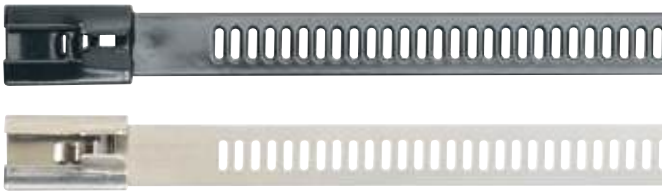
## Ty-Rap® Multi-Lok Stainless Steel Self-Locking Cable Ties

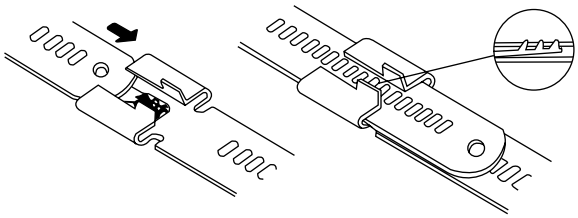
Fire hazards — corrosive environments — temperature extremes — for many cable bundling applications, plastic ties are simply inadequate–or even dangerous.

That's why we developed stainless steel Multi-Lok Ties. Unaffected by fire, UV or extreme temperatures, corrosion-resistant Multi-Lok Ties provide a safe, strong, worry-free hold.

Quickly and easily applied by hand or with the Thomas & Betts Cable Tie Tensioner or Tensioning Hook, Multi-Lok Ties feature a unique, self-locking, multiple-locking system that holds in excess of 200 lbs.

Nylon II coating is halogen-free and non-toxic black. This weather-resistant coating is unaffected by UV sunlight. This adds resistance to corrosion, chemicals and weathering. Preferred stainless steel strap eliminates sharp edges.





As the free end of the Multi-Lok tie passes through the buckle, three separate teeth (four teeth in the 12mm Multi-Lok) mesh with corresponding slots in the band automatically locking the tie as it is being tensioned. Self-locking Multi-Lok Ties feature an extremely strong, unique multiple locking system.



### Type 316 Stainless Steel — Nylon 11 Halogen-Free Coated

| CAT. NO. | TENSILE STRENGTH LBS | WIDTH IN | WIDTH MM | LENGTH IN | LENGTH MM | WEIGHT LBS | WEIGHT KG |
|---|---|---|---|---|---|---|---|
| TYS6-280C | 250 | .276 | 7 | 6 | 150 | .66 | .30 |
| TYS9-280C | 250 | .276 | 7 | 9 | 225 | .99 | .45 |
| TYS12-280C | 250 | .276 | 7 | 12 | 300 | 1.32 | .60 |
| TYS18-280C | 250 | .276 | 7 | 18 | 450 | 1.76 | .80 |
| TYS24-280C | 250 | .276 | 7 | 24 | 610 | 2.64 | 1.20 |
| TYS6-470C | 250 | .472 | 12 | 6 | 150 | 1.10 | .50 |
| TYS9-470C | 250 | .472 | 12 | 9 | 225 | 1.65 | .75 |
| TYS12-470C | 250 | .472 | 12 | 12 | 300 | 2.20 | 1.00 |
| TYS18-470C | 250 | .472 | 12 | 18 | 450 | 2.97 | 1.35 |
| TYS24-470C | 250 | .472 | 12 | 24 | 610 | 4.29 | 1.95 |

*Packaging Quantity: 100/bag*
*.010" (.245mm) Thickness*

### Type 316 Stainless Steel — Uncoated

| CAT. NO. | TENSILE STRENGTH LBS | WIDTH IN | WIDTH MM | LENGTH IN | LENGTH MM | WEIGHT LBS | WEIGHT KG |
|---|---|---|---|---|---|---|---|
| TYS6-280 | 250 | .276 | 7 | 6 | 150 | .66 | .30 |
| TYS9-280 | 250 | .276 | 7 | 9 | 225 | .88 | .40 |
| TYS12-280 | 250 | .276 | 7 | 12 | 300 | 1.21 | .55 |
| TYS18-280 | 250 | .276 | 7 | 18 | 450 | 1.98 | .90 |
| TYS24-280 | 250 | .276 | 7 | 24 | 610 | 2.64 | 1.20 |
| TYS6-470 | 250 | .472 | 12 | 6 | 150 | 1.10 | .50 |
| TYS9-470 | 250 | .472 | 12 | 9 | 225 | 1.65 | .75 |
| TYS12-470 | 250 | .472 | 12 | 12 | 300 | 2.20 | 1.00 |
| TYS18-470 | 250 | .472 | 12 | 18 | 450 | 3.19 | 1.45 |
| TYS24-470 | 250 | .472 | 12 | 24 | 610 | 4.29 | 1.95 |

*Packaging Quantity: 100/bag*
*.010" (.245mm) Thickness*

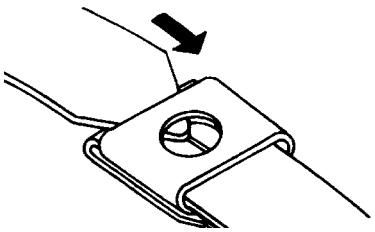
## Ty-Rap® High-Performance Stainless Steel Cable Ties

# Strong and slip-free with a unique dual lock.

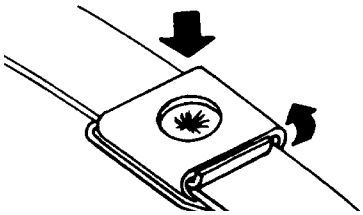
# Ty-Rap® Dual-Lock Stainless Steel Cable Ties

- 304 grade stainless steel construction
- Two-piece design
- Fast, easy installation
- Mini ties (.18" wide) offer 100 lbs. tensile strength
- Standard ties (.25" wide) offer 200 lbs. tensile strength
- Also available in 316 grade stainless steel (to order, add -316 suffix to catalog number)





After wrapping the object to be tied, insert the free end of the tie through the buckle and into the tool.



Squeeze the handle of the tool to create the dual lock and cut off the tail. The cable tie forms a low-profile dual lock.



The tail is formed into a fold lock behind the buckle. The tool forces a dimple in the band into a hole in the buckle.

| CAT. NO. | FOR BUNDLE DIAMETER OF IN/MM | TENSILE STRENGTH LBS/N | WIDTH IN/MM | LENGTH IN/MM | WEIGHT LBS/KG | STD. PKG. QTY. |
|---|---|---|---|---|---|---|
| ***Mini Stainless Steel Cable Ties*** | | | | | | |
| **SS7-180** | 1/25 | 100/444.8 | .18/4.5 | 6.5/165 | .70/.32 | 100 |
| **SS10-180** | 2/51 | 100/444.8 | .18/4.5 | 10.0/254 | .90/.41 | 100 |
| **SS16-180** | 4/102 | 100/444.8 | .18/4.5 | 16.0/406 | 1.40/.64 | 100 |
| **SS23-180** | 6//152 | 100/444.8 | .18/4.5 | 22.5/572 | 1.85/.84 | 100 |
| **SS29-180** | 8/203 | 100/444.8 | .18/4.5 | 29.0/737 | 2.35/1.07 | 100 |
| ***Standard Stainless Steel Cable Ties*** | | | | | | |
| **SS10-250** | 2/51 | 200/890 | .25/6.35 | 10.0/254 | 1.10/.50 | 100 |
| **SS17-250** | 4/101 | 200/890 | .25/6.35 | 16.5/419 | 1.80/.82 | 100 |
| **SS23-250** | 6/152 | 200/890 | .25/6.35 | 22.5/572 | 2.50/1.13 | 100 |
| **SS29-250** | 8/203 | 200/890 | .25/6.35 | 29.0/737 | 3.20/1.45 | 100 |
| **SS35-250** | 10/254 | 200/890 | .25/6.35 | 35.0/ 889 | 3.80/1.72 | 100 |

*304 Stainless Steel*

*.015" (.38mm) Thickness*

***Note**: Other lengths available on special request.*

*Add suffix -316 for 316 Stainless Steel.*



Thomas&Betts

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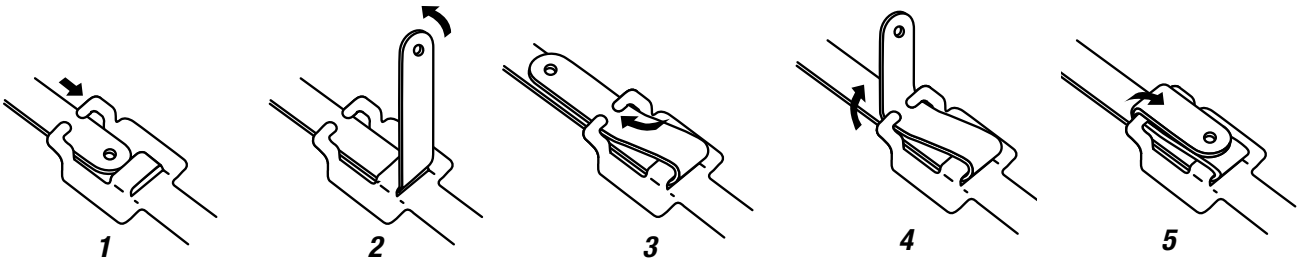
## Ty-Rap® High-Performance Stainless Steel Cable Ties

# Ties to use and re-use with quickness and ease!

# Ty-Rap® Re-Usable Stainless Steel Cable Ties

- 200/300 series stainless steel construction
- Fully coated in non-toxic, halogen-free low-smoke Nylon 11 for extra corrosion resistance
- Unique buckle design for easy application and re-use
- May be double-wrapped for additional tensile strength
- Also available in 316 grade stainless steel (to order, add -316 suffix to catalog number)






1. Insert cable tie tail through holding tabs and locking emboss
2. Bend cable tie tail up
3. Insert cable tie tail back through holding tabs, creating as tight a bend as possible

For increased tensile strength follow steps #4 and #5

**Patent Pending*

4. Bend cable tie tail up
5. Fold cable tie tail over holding tabs

| CAT. NO. | TENSILE STRENGTH (LBS/N) | WIDTH (IN/MM) | LENGTH (IN/MM) | WEIGHT (LBS/KG) | STD. PKG. QTY. |
|---|---|---|---|---|---|
| **SSR6-250C** | 75/333.60 | .25/6.35 | 6/152 | 1.4/.64 | 100 |
| **SSR9-250C** | 75/333.60 | .25/6.35 | 9/229 | 1.8/.82 | 100 |
| **SSR12-250C** | 75/333.60 | .25/6.35 | 12/305 | 2.1/.95 | 100 |
| **SSR18-250C** | 75/333.60 | .25/6.35 | 18/457 | 3.0/1.36 | 100 |
| **SSR24-250C** | 75/333.60 | .25/6.35 | 24/610 | 3.7/1.68 | 100 |
| **SSR6-375C** | 100/444.80 | .38/9.53 | 6/152 | 1.8/.82 | 100 |
| **SSR9-375C** | 100/444.80 | .38/9.53 | 9/229 | 2.0/.91 | 100 |
| **SSR12-375C** | 100/444.80 | .38/9.53 | 12/305 | 3.1/1.41 | 100 |
| **SSR18-375C** | 100/444.80 | .38/9.53 | 18/457 | 4.4/2.00 | 100 |
| **SSR24-375C** | 100/444.80 | .38/9.53 | 24/610 | 6.6/2.99 | 100 |
| **SSR30-375C** | 100/444.80 | .38/9.53 | 30/762 | 7.0/3.18 | 100 |
| **SSR36-375C** | 100/444.80 | .38/9.53 | 36/914 | 8.3/3.76 | 100 |

*Material: 200/300 Series Stainless Steel*

*.015" (.38mm) metal thickness; .045" (1.1mm) coated thickness*

***Note**: This product may be double-wrapped for additional tensile strength.*
*For additional colors and uncoated ties, consult Thomas & Betts Customer Service for pricing and availability.*

*For 316 Stainless Steel, add suffix -316 after catalog number. Consult Customer Service for availability.*

# Ty-Rap® High-Performance Stainless Steel Cable Ties

## Pre-assembled for single or double wrapping.

### Ty-Rap® Free-End Stainless Steel Clamps



- 201 grade stainless steel construction
- Double-wrapped clamps provide extra strength
- Available in various lengths, widths and thicknesses

| CAT. NO. | MAX. DIA. ONCE AROUND IN/MM | MAX. DIA. TWICE AROUND IN/MM | LENGTH IN/MM | TENSILE STRENGTH SINGLE WRAP LBS/N | BAND WIDTH IN/MM | BAND THICKNESS IN/MM | WEIGHT LBS/KG | STD. PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| **SSH10-250** | 2/50 | — | 10/25 | 450/2002 | .25/6.35 | .02/.51 | 2.2/1.00 | 100 |
| **SSH16-250** | 3.5/88 | 1.5/38 | 16/40 | 450/2002 | .25/6.35 | .02/.51 | 3.1/1.41 | 100 |
| **SSH16-375** | 3.5/88 | 1.5/38 | 16/40 | 900/4003 | .38/9.53 | .03/.63 | 6.2/2.81 | 100 |
| **SSH18-500** | 4/101 | 2/50 | 18/45 | 1,400/6228 | .5/12.70 | .03/.76 | 10.5/4.76 | 100 |
| **SSH19-250** | 5/127 | 2.5/63 | 19/48 | 450/2002 | .25/6.35 | .02/.51 | 3.5/1.59 | 100 |
| **SSH21-625** | 5/127 | 2.5/63 | 21/53 | 1,700/7562 | .63/15.88 | .03/.76 | 15.1/6.85 | 100 |
| **SSH24-750** | 6/152 | 3/76 | 24/60 | 2,000/8896 | .75/19.05 | .03/.76 | 10.9/4.94 | 50 |
| **SSH27-250** | 7/177 | 3.5/88 | 27/68 | 450/2002 | .25/6.35 | .02/.51 | 4.6/2.09 | 100 |
| **SSH31-500** | 8/203 | 4/101 | 31/78 | 1,400/6228 | .5/12.70 | .03/.76 | 4.7/2.13 | 25 |
| **SSH34-250** | 9/228 | 4.5/114 | 34/86 | 450/2002 | .25/6.35 | .02/.51 | 5.6/2.54 | 100 |
| **SSH37-750** | 10/254 | 5/127 | 37/93 | 2,000/8896 | .75/19.05 | .03/.76 | 7.6/3.45 | 25 |
| **SSH44-375** | 12/304 | 6/152 | 44/112 | 900/4003 | .38/9.53 | .03/.76 | 3.6/1.69 | 25 |
| **SSH50-750** | 14/355 | 7/177 | 50/127 | 2,000/8896 | .75/19.05 | .03/.76 | 9.7/4.40 | 25 |
| **SSH56-625** | 16/406 | 8/203 | 56/142 | 1,700/7562 | .63/15.88 | .03/.76 | 9.0/4.08 | 25 |
| **SSH62-750** | 18/457 | 9/228 | 62/157 | 2,000/8896 | .75/19.05 | .03/.76 | 11.6/5.26 | 25 |
| **SSH69-625** | 20/508 | 10/254 | 69/175 | 1,700/7562 | .63/15.88 | .00/.76 | 10.7/4.86 | 25 |

*Type 201 Stainless Steel*

*Other Free-End Clamp sizes and metals are available on special order.*

## Boiler rooms, shipyards, or off-shore oil platforms — a match for any severe environment!

### Ty-Rap® Stainless Steel Strap Cable Ties



- Stainless steel strap cable ties have been designed for high-temperature applications and for use in areas of harsh, corrosive environments
- Rated at 200-lb. tensile strength
- Smooth edges protect both the cable insulation and the installer

| CAT. NO. | BODY WIDTH IN/MM | LENGTH IN/MM | MAX. WIRE BUNDLE DIA. IN/MM | TENSILE STRENGTH LBS/N | STD. PKG. QTY. |
|---|---|---|---|---|---|
| **TYS8** | .31/7.87 | 10.65/270.51 | 2/50.80 | 200/889.60 | 100 |
| **TYS14** | .31/7.87 | 14.65/372.11 | 4/101.60 | 200/889.60 | 50 |
| **TYS22** | .31/7.87 | 22.65/575.31 | 6/152.40 | 200/889.60 | 50 |
| **TYS28** | .31/7.87 | 28.65/727.71 | 8/203.20 | 200/889.60 | 50 |

***Note**: Use WT3S Tool for tensioning*

*Cannot be coated with any covering material*

*Made of 316 stainless steel*



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# Ty-Rap® High-Performance Stainless Steel Cable Ties



## 1,000-ft. reel to cut your desired length!

### Stainless Steel Strapping on a Reel



| CAT. NO. | DESCRIPTION | WIDTH IN/MM | STRENGTH LBS/N | STD. PKG. QTY. |
|---|---|---|---|---|
| TYS1000 | 1,000 ft. of strap, 2 reels of 500 ft. each | .31/7.87 | 200/889.60 | 1 |

*Stainless steel ties of virtually any length can be produced from the 1,000-ft. reel in combination with the matching head.*

***Note**: Use WT3S tool for tensioning*

## Lockable heads for stainless steel strapping.

### Stainless Steel Strapping Locking Heads



| CAT. NO. | DESCRIPTION | STD. PKG. QTY. |
|---|---|---|
| TYS5200H | Heads only for stainless strapping | 50 |

## Long-lasting anchor hold.

### Stainless Steel Mounting Base



| CAT. NO. | DESCRIPTION | STD. PKG. QTY. |
|---|---|---|
| TCS25 | Mounting base for stainless steel ties | 50 |

# Ty-Rap® High-Performance Stainless Steel Cable Ties

## Identify cable bundles with permanent, stainless steel imprintable tags.

### ID Tagging System

- Apply Type 304 stainless steel tags with stainless steel cable ties
- Easy-to-use — slip a tie through the slots in the tag and fasten with the installation tool
- Works with ¼" wide ties
- .015" thickness



| CAT. NO. | WIDTH IN/MM | LENGTH IN/MM | WEIGHT PER 100 LBS/N | STD. PKG. QTY. |
|---|---|---|---|---|
| **SSID100** | .75/ 19.05 | 2.0/ 50.80 | .5/ 2.22 | 100 |
| **SSID101** | 1.50/ 38.10 | 2.5/ 63.50 | 1.2/ 5.34 | 100 |
| **SSID102** | .75/ 19.05 | 3.5/ 88.90 | .8/ 3.56 | 100 |

*Packaging Quantity: 100/box*

***Note**: Customized pre-embossed tags are available. Please consult Technical Service for details.*

*Add suffix (316) for 316 Stainless Steel.*

## No second guessing — quickly and accurately position ID tags!

### ID Tag Imprinter

- Imprint Thomas & Betts stainless steel ID tags
- Includes special tag holder for secure positioning and a 3⁄32" character imprinting wheel, standard (no substitutions allowed)



| CAT. NO. | DESCRIPTION | WEIGHT LBS/N |
|---|---|---|
| **WTID200** | I.D. Tag Imprinter | 29.5/131.2 |
| **WTID290** | 3⁄32" Character Imprinting Wheel | — |
| **WTID281** | 1⁄8" Character Imprinting Wheel | — |
| **WTID283** | 3⁄16" Character Imprinting Wheel | — |
| **WTID204** | (Kit) WTID200 and WTID 283 | — |

*Packaging Quantity: 1/box*

## Stainless Steel ID Tag Strips/Carriers




| CAT. NO. | DESCRIPTION | LENGTH IN/MM | WIDTH IN/MM | WT. PER 100 LBS | STD. PKG. QTY. |
|---|---|---|---|---|---|
| **ER043** | 6-Character Carrier | 3.64/92.46 | .38/9.65 | .73 | 100 |
| **ER044** | 10-Character Carrier | 5.14/130.56 | .38/9.65 | 1.25 | 100 |
| **ER045** | 16-Character Carrier | 7.39/187.71 | .38/9.65 | 1.47 | 100 |
| **ER050** | Short Strip | 4.25/107.95 | .38/9.65 | .98 | 100 |
| **ER051** | Medium Strip | 5.75/146.05 | .38/9.65 | 1.33 | 100 |
| **ER052** | Long Strip | 8.00/203.20 | .38/9.65 | 1.85 | 100 |
| **ER060** | I.D. Tag Kit | — | — | — | 1 |

*ID Tag Kit contains 50 of each letter, number, symbol, carrier, and strip in a handy carrying case.*



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## Ty-Rap® High-Performance Stainless Steel Cable Ties

# Letters, numbers, and symbols — create easy-to-use custom identifications!

## Stainless Steel ID Tags

- Slip tags over carriers or strips (see **previous page**) and attach to your cable or hose with a variety of Thomas & Betts Stainless Steel Cable Ties




| CAT. NO. | DESCRIPTION | LENGTH IN/MM | WIDTH IN/MM | WT. PER 100 | STD. PKG. QTY. |
|---|---|---|---|---|---|
| **ER010** | A | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER011** | B | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER012** | C | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER013** | D | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER014** | E | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER015** | F | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER016** | G | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER017** | H | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER018** | I | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER019** | J | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER020** | K | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER021** | L | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER022** | M+W | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER023** | N | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER024** | O | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER025** | P | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER026** | Q | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER027** | R | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER028** | S | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER029** | T | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER030** | U | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER031** | V | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER032** | X | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER033** | Y | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER034** | Z | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER018** | 1 | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER037** | 2 | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER038** | 3 | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER039** | 4 | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER040** | 5 | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER041** | 6 | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER021** | 7 | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER042** | 8 | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER041** | 9 | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER024** | 0 | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER035** | Minus/Hyphen (-) | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER036** | Blank ( ) | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER046** | Plus (+) | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER047** | Earth (≈) | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER048** | Sine (~) | .45/2.00 | .38/1.69 | .31 | 100 |
| **ER049** | Slash (/) | .45/2.00 | .38/1.69 | .31 | 100 |

*Character size: .218"* *Material: .025" 316 stainless steel*

# Ty-Rap® High-Performance Stainless Steel Cable Ties





*Type LS*
*Heavy-Duty Stainless Steel*
*Ball-Lock Cable Ties — Uncoated*



*Type LS*
*Heavy-Duty Stainless Steel*
*Ball-Lock Cable Ties — Coated*



*Type TYS*
*Multi-Lok Stainless Steel Ties — Uncoated*



*Type TYS*
*Multi-Lok Stainless Steel Ties — Coated*



*Type SS*
*Mini Stainless Steel Cable Ties*



*Type SS*
*Standard Stainless Steel Cable Ties*

## Stainless Steel Cable Tie Specifications

| CAT. NO. | | WIDTH IN./MM | LENGTH IN./MM | THICKNESS IN./MM | MAX. DIA. SINGLE WRAP IN./MM | MAX. DIA. DOUBLE WRAP IN./MM |
|---|---|---|---|---|---|---|
| ***Type LS Heavy-Duty Stainless Steel Ball-Lock Cable Ties*** | | | | | | |
| **Uncoated** | | | | | | |
| **LS-4.6-200A** | | .18/4.6 | 7.9/201 | — | 2/51 | (single |
| **LS-4.6-360A** | | .18/4.6 | 14.2/360 | — | 4/102 | wrap |
| **LS-4.6-520A** | | .18/4.6 | 20.5/520 | — | 6/152 | only) |
| **LS-4.6-680A** | | .18/4.6 | 26.7/679 | — | 8/203 | |
| **LS-4.6-840A** | | .18/4.6 | 33.0/838 | — | 10/254 | |
| **LS-7.9-200A** | | .31/7.9 | 7.9/201 | — | 2/51 | (single |
| **LS-7.9-360A** | | .31/7.9 | 14.2/360 | — | 4/102 | wrap |
| **LS-7.9-520A** | | .31/7.9 | 20.5/520 | — | 6/152 | only) |
| **LS-7.9-680A** | | .31/7.9 | 26.7/679 | — | 8/203 | |
| **LS-7.9-840A** | | .31/7.9 | 33.0/838 | — | 10/254 | |
| **LS-7.9-1010A** | | .31/7.9 | 41.3/1050 | — | 12.5/318 | |
| **Uncoated** | **Fully Polyester Coated** | | | | | |
| **LS-4.6-200B** | **LS-4.6-200-C** | .18/4.6 | 7.9/201 | — | 2/51 | (single |
| **LS-4.6-360B** | **LS-4.6-360-C** | .18/4.6 | 14.2/360 | — | 4/102 | wrap |
| **LS-4.6-520B** | **LS-4.6-520-C** | .18/4.6 | 20.5/520 | — | 6/152 | only) |
| **LS-4.6-680B** | **LS-4.6-680-C** | .18/4.6 | 26.7/679 | — | 8/203 | |
| **LS-4.6-840B** | **—** | .18/4.6 | 33.0/838 | — | 10/254 | |
| **LS-7.9-200B** | **LS-7.9-200-C** | .31/7.9 | 7.9/201 | — | 2/51 | (single |
| **LS-7.9-360B** | **LS-7.9-360-C** | .31/7.9 | 14.2/360 | — | 4/102 | wrap |
| **LS-7.9-520B** | **LS-7.9-520-C** | .31/7.9 | 20.5/520 | — | 6/152 | only) |
| **LS-7.9-680B** | **LS-7.9-680-C** | .31/7.9 | 26.7/679 | — | 8/203 | |
| **LS-7.9-840B** | **—** | .31/7.9 | 33.0/838 | — | 10/254 | |
| **LS-7.9-1010B** | **—** | .31/7.9 | 41.3/1050 | — | 12.5/318 | |
| ***Type TYS Multi-Lok Stainless Steel Cable Ties*** | | | | | | |
| **Uncoated** | **Nylon 11 Coated** | | | | | |
| **TYS6-280** | **TYS6-280C** | .28/7.00 | 6/152 | .01/.25 | 1.9/48 | (single |
| **TYS9-280** | **TYS9-280C** | .28/7.00 | 9/229 | .01/.25 | 2.8/71 | wrap |
| **TYS12-280** | **TYS12-280C** | .28/7.00 | 12/305 | .01/.25 | 3.8/96 | only) |
| **TYS18-280** | **TYS18-280C** | .28/7.00 | 18/457 | .01/.25 | 5.7/144 | |
| **TYS24-280** | **TYS24-280C** | .28/7.00 | 24/610 | .01/.25 | 7.6/193 | |
| **TYS6-470** | **TYS6-470C** | .47/12.00 | 6/152 | .01/.25 | 1.9/48 | |
| **TYS9-470** | **TYS9-470C** | .47/12.00 | 9/229 | .01/.25 | 2.8/71 | |
| **TYS12-470** | **TYS12-470C** | .47/12.00 | 12/305 | .01/.25 | 3.8/96 | |
| **TYS18-470** | **TYS18-470C** | .47/12.00 | 18/457 | .01/.25 | 5.7/144 | |
| **TYS24-470** | **TYS24-470C** | .47/12.00 | 24/610 | .01/.25 | 7.6/193 | |
| ***Type SS Mini Stainless Steel Cable Ties*** | | | | | | |
| **SS7-180** | | .18/4.50 | 6.5/165 | .02/.51 | 1.7/43 | (single |
| **SS10-180** | | .18/4.50 | 10/254 | .02/.51 | 2.8/71 | wrap |
| **SS16-180** | | .18/4.50 | 16/406 | .02/.51 | 4.7/119 | only) |
| **SS23-180** | | .18/4.50 | 22.5/572 | .02/.51 | 6/152 | |
| **SS29-180** | | .18/4.50 | 29.0/737 | .02/.51 | 8/203 | |
| ***Type SS Standard Stainless Steel Cable Ties*** | | | | | | |
| **SS10-250** | | .25/6.35 | 10/254 | .02/.51 | 2.1/53 | |
| **SS17-250** | | .25/6.35 | 16.5/419 | .02/.51 | 4.3/109 | (single |
| **SS23-250** | | .25/6.35 | 22.5/572 | .02/.51 | 6.5/165 | wrap |
| **SS29-250** | | .25/6.35 | 29/737 | .02/.51 | 8.5/215 | only) |
| **SS35-250** | | .25/6.35 | 35/889 | .02/.51 | 10.5/265 | |



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# Ty-Rap® High-Performance Stainless Steel Cable Ties



| STAINLESS STEEL TYPE | COATING OR FINISH | MIN. LOOP TENSILE STRENGTH SINGLE WRAP LBS./N | MIN. LOOP TENSILE STRENGTH DOUBLE WRAP LBS./N | APPLICATION TOOLS USED | GENERAL APPLICATION |
|---|---|---|---|---|---|
| 302/304 | Dull | 100/445 | (single | **DAS250** | |
| 302/304 | | 100/445 | wrap | **DAS250** | |
| 302/304 | | 100/445 | only) | **DAS250** | |
| 302/304 | | 100/445 | | **DAS250** | |
| 302/304 | | 100/445 | | **DAS250** | |
| 302/304 | | 250/1,112 | | **DAS250** | |
| 302/304 | | 250/1,112 | | **DAS250** | |
| 302/304 | | 250/1,112 | | **DAS250** | |
| 302/304 | | 250/1,112 | | **DAS250** | |
| 302/304 | | 250/1,112 | | **DAS250** | |
| 302/304 | | 250/1,112 | | **DAS250** | • Offshore drilling<br>• Petrochemical processing<br>• Shipbuilding<br>• Food & Beverage processing<br>• Pharmaceutical processing |
| 316 | Uncoated | 100/445 | (single | **DAS250** | |
| 316 | or Fully | 100/445 | wrap | **DAS250** | |
| 316 | Polyester | 100/445 | only) | **DAS250** | |
| 316 | Coated Black | 100/445 | | **DAS250** | |
| 316 | | 100/445 | | **DAS250** | |
| 316 | | 250/1,112 | | **DAS250** | |
| 316 | | 250/1,112 | | **DAS250** | |
| 316 | | 250/1,112 | | **DAS250** | |
| 316 | | 250/1,112 | | **DAS250** | |
| 316 | | 250/1,112 | | **DAS250** | |
| 316 | | 250/1,112 | | **DAS250** | |
| 316 | Uncoated or | 250/1,112 | (single | **WTAE200** | |
| 316 | Nylon 11 | 250/1,112 | wrap | **WTAE200** | |
| 316 | Coated Black | 250/1,112 | only) | **WTAE200** | |
| 316 | | 250/1,112 | | **WTAE200** | • Self-locking<br>• Cable bundling<br>• Hazardous and corrosive environments |
| 316 | | 250/1,112 | | **WTAE201** | |
| 316 | | 400/1,779 | | **WTC075** | |
| 316 | | 400/1,779 | | **WTC075** | |
| 316 | | 400/1,779 | | **WTC075** | |
| 316 | | 400/1,779 | | **WTC075** | |
| 316 | | 400/1,779 | | **WTC075** | |
| 304* | Dull to Bright | 100/445 | (single | **WTA290** | |
| 304* | | 100/445 | wrap | **WTA290** | • Wire/cable bundling<br>• I.D. tagging |
| 304* | | 100/445 | only) | **WTA290** | |
| 304* | | 100/445 | | **WTA290** | |
| 304* | | 100/445 | | **WTA290** | |
| 304* | Dull to Bright | 200/890 | | **WTA250** | |
| 304* | | 200/890 | (single | **WTA250** | • Wire/cable bundling<br>• I.D. tagging |
| 304* | | 200/890 | wrap | **WTA250** | |
| 304* | | 200/890 | only) | **WTA250** | |
| 304* | | 200/890 | | **WTA250** | |

** SS series also available in Type 316 stainless.*



*Type SSR*
*Reusable Stainless Steel Cable Ties*



*Type SSH*
*Free-End Clamps*

## Stainless Steel Cable Tie Specifications *(continued)*

| CAT. NO. | WIDTH IN./MM | LENGTH IN./MM | THICKNESS IN./MM | MAX. DIA. SINGLE WRAP IN./MM | MAX. DIA. DOUBLE WRAP IN./MM |
|---|---|---|---|---|---|
| ***Type SSR Reusable Stainless Steel Cable Ties*** | | | | | |
| **SSR6-250C** | .25/6.35 | 6/152 | .02/.51 | 1.5/38 | N/A |
| **SSR9-250C** | .25/6.35 | 9/229 | .02/.51 | 2.5/63 | 1.1/28 |
| **SSR12-250C** | .25/6.35 | 12/305 | .02/.51 | 3.4/86 | 1.5/38 |
| **SSR18-250C** | .25/6.35 | 18/457 | .02/.51 | 5.4/137 | 2.5/64 |
| **SSR24-250C** | .25/6.35 | 24/610 | .02/.51 | 7.3/185 | 3.5/89 |
| **SSR6-375C** | .38/9.53 | 6/152 | .02/.51 | 1.5/38 | N/A |
| **SSR9-375C** | .38/9.53 | 9/229 | .02/.51 | 2.5/63 | 1.1/28 |
| **SSR12-375C** | .38/9.53 | 12/305 | .02/.51 | 3.4/86 | 1.5/38 |
| **SSR18-375C** | .38/9.53 | 18/457 | .02/.51 | 5.4/137 | 2.5/64 |
| **SSR24-375C** | .38/9.53 | 24/610 | .02/.51 | 7.3/185 | 3.5/89 |
| **SSR30-375C** | .38/9.53 | 30/762 | .02/.51 | 9.1/231 | 4.4/112 |
| **SSR36-375C** | .38/9.53 | 36/914 | .02/.51 | 11.0/280 | 5.3/135 |
| ***Type SSH Free-End Clamps*** | | | | | |
| **SSH10-250** | .25/6.35 | 10/250 | .02/.51 | 2.0/50 | — |
| **SSH16-250** | .25/6.35 | 16/400 | .02/.51 | 3.5/88 | 1.5/38 |
| **SSH19-250** | .25/6.35 | 19/480 | .02/.51 | 5.0/127 | 2.5/63 |
| **SSH27-250** | .25/6.35 | 27/680 | .02/.51 | 7.0/177 | 3.5/88 |
| **SSH34-250** | .25/6.35 | 34/860 | .02/.51 | 9.0/228 | 4.5/114 |
| **SSH16-375** | .38/9.53 | 16/400 | .03/.76 | 3.5/88 | 1.5/38 |
| **SSH44-375** | .38/9.53 | 44/1,120 | .03/.76 | 12.0/304 | 6.0/152 |
| **SSH18-500** | .5/12.70 | 18/460 | .03/.76 | 4.0/101 | 2.0/50 |
| **SSH31-500** | .5/12.70 | 31/780 | .03/.76 | 8.0/203 | 4.0/101 |
| **SSH21-625** | .63/15.88 | 21/530 | .03/.76 | 5.0/127 | 2.5/63 |
| **SSH56-625** | .63/15.88 | 56/1,420 | .03/.76 | 16.0/406 | 8.0/203 |
| **SSH69-625** | .63/15.88 | 69/1,750 | .03/.76 | 20.0/508 | 10.0/254 |
| **SSH24-750** | .75/19.05 | 24/600 | .03/.76 | 6.0/152 | 3.0/76 |
| **SSH37-750** | .75/19.05 | 37/940 | .03/.76 | 10.0/254 | 5.0/127 |
| **SSH50-750** | .75/19.05 | 50/1,270 | .03/.76 | 14.0/355 | 7.0/177 |
| **SSH62-750** | .75/19.05 | 62/1,570 | .03/.76 | 18.0/457 | 9.0/228 |



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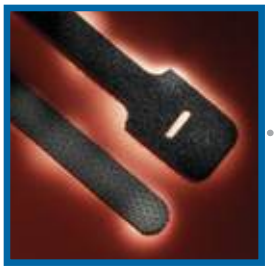
# Ty-Rap® High-Performance Stainless Steel Cable Ties



| STAINLESS STEEL TYPE | COATING OR FINISH | MIN. LOOP TENSILE STRENGTH SINGLE WRAP LBS./N | MIN. LOOP TENSILE STRENGTH DOUBLE WRAP LBS./N | APPLICATION TOOL USED | GENERAL APPLICATION |
|---|---|---|---|---|---|
| 200/300 | Nylon 11 Coated | 75/334 | 300/1,334 | **WTAE200** | |
| 200/300 | (Uncoated or other | 75/334 | 300/1,334 | **WTAE200** | |
| 200/300 | colors available on | 75/334 | 300/1,334 | **WTAE200** | |
| 200/300 | special order) | 75/334 | 300/1,334 | **WTAE200** | • Reusable<br>• Cable bundling<br>• Oil rigs<br>• Telecommunications towers<br>• Hazardous and corrosive environments<br>• Cable trays |
| 200/300 | | 75/334 | 300/1,334 | **WTAE200** | |
| 200/300 | | 100/445 | 500/2,224 | **WTAE200** | |
| 200/300 | | 100/445 | 500/2,224 | **WTAE200** | |
| 200/300 | | 100/445 | 500/2,224 | **WTC075** | |
| 200/300 | | 100/445 | 500/2,224 | **WTC075** | |
| 200/300 | | 100/445 | 500/2,224 | **WTC075** | |
| 200/300 | | 100/445 | 500/2,224 | **WTC075** | |
| 200/300 | | 100/445 | 500/2,224 | **WTC075** | |
| 201 | Bright | 450/2,002 | 1,200/5,338 | **WTJ020/WTC075/WTC001** | |
| 201 | | 450/2,002 | 1,200/5,338 | **WTJ020/WTC075/WTC001** | |
| 201 | | 450/2,002 | 1,200/5,338 | **WTJ020/WTC075/WTC001** | |
| 201 | | 450/2,002 | 1,200/5,338 | **WTJ020/WTC075/WTC001** | |
| 201 | | 450/2,002 | 1,200/5,338 | **WTJ020/WTC075/WTC001** | |
| 201 | | 900/4,003 | 2,400/10,675 | **WTJ020/WTC075/WTC001** | |
| 201 | | 900/4,003 | 2,400/10,675 | **WTJ075/WTC001** | |
| 201 | | 1,400/6,227 | 3,300/14,678 | **WTJ075/WTC001** | • Industrial hoses<br>• Cable bundling<br>• High strength |
| 201 | | 1,400/6,227 | 3,300/14,678 | **WTJ075/WTC001** | |
| 201 | | 1,700/7,562 | 4,000/17,792 | **WTJ075/WTC001** | |
| 201 | | 1,700/7,562 | 4,000/17,792 | **WTJ075/WTC001** | |
| 201 | | 1,700/7,562 | 4,000/17,792 | **WTC001** | |
| 201 | | 2,000/8,896 | 5,000/22,240 | **WTC001** | |
| 201 | | 2,000/8,896 | 5,000/22,240 | **WTC001** | |
| 201 | | 2,000/8,896 | 5,000/22,240 | **WTC001** | |
| 201 | | 2,000/8,896 | 5,000/22,240 | **WTC001** | |

*Ty-Rap® Stainless Steel Cable Ties have passed a variety of mechanical, environmental, and electrical tests. Other data can be made available upon request.*

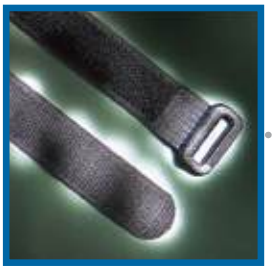
## Hook-and-Loop Fasteners



*Slotted Loop Ties (FO Series)*

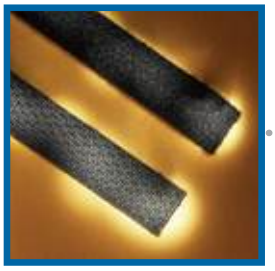
Never lose your strap. Use the slotted head hook-and-loop tie to install on one wire while using the body of the strap to bundle.





*Buckle Ties (FOL Series)*

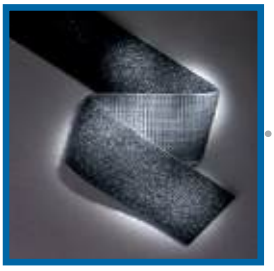
Polymer buckles provide added strength and stability.



*Strip Ties (FOS Series)*

Pre-cut lengths make bundling a cinch!





*Rolls (FOR Series)*

Rolled hook-and-loop material enables custom cut lengths, avoiding waste.

**Fasteners available in these colors:** Black, Brown, Red, Orange, Yellow, Green, Blue, Gray, and White.
Please consult Customer Service for pricing and availability.



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## Hook-and-Loop Fasteners

# Available in UL94V-2 rated material.

## FO, FOL, FOS and FOR Series Hook-and-Loop Fasteners

- High-quality Hook-and-Loop Fasteners
- Reusable — great for frequently changed bundles
- Wide bearing surface — ideal for data and fiber optic cable
- Sizes available to accommodate varying bundle diameters
- Flame-retardant and colored material available

| STD. PKG. CAT. NO. | MIN. TENSILE STRENGTH LBS./N | MAX. BUNDLE DIA. IN./MM | LENGTH IN./MM | WIDTH IN./MM | STD. PKG. QTY. |
|---|---|---|---|---|---|
| ***FO Series Slotted Loop Ties**** | | | | | |
| **FO200-40-0** | 40/177.9 | 2.0/50.80 | 9/228.6 | .50/12.7 | 10 |
| **FO200-50-0** | 50/222.4 | 2.0/50.80 | 9/228.6 | .75/19.05 | 10 |
| **FO350-40-0** | 50/222.4 | 3.5/88.90 | 13/330.2 | .50/12.7 | 10 |
| **FO350-50-0** | 50/222.4 | 3.5/88.90 | 13/330.2 | .75/19.05 | 10 |
| ***FOL Series Buckle Ties*** | | | | | |
| **FOL300-50-0** | 50/222.4 | 3.0/76.20 | 12/304.8 | .75 | 10 |
| **FOL500-50-0** | 50/222.4 | 5.0/127.0 | 18/457.2 | .75 | 10 |
| ***FOS Series Strip Ties*** | | | | | |
| **FOS150-50-0** | 50/222.4 | 1.5/38.10 | 6/152.4 | .75 | 10 |
| **FOS320-50-0** | 50/222.4 | 3.2/81.28 | 12/304.8 | .75 | 10 |
| **FOS500-50-0** | 50/222.4 | 5.0/127.00 | 18/457.2 | .75 | 10 |
| ***FOR Series Rolled Hook and Loop*** | | | | | |
| **FOR180-50-0** | 50/222.4 | Various | 180/4572 | .75 | 1 |

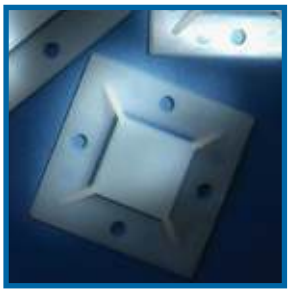
- *1/16" strap thickness*
- *Black is standard color.*
- *Multiple colors available for identifying specific bundles*

**Add suffix "FR" for UL94V-2 rated flame-retardant material, after color choice.*

*Contact Customer Service for availability and delivery.*

# Mounting bases for use with hook-and-loop fasteners.

## Nylon 6.6 Mounting Bases



| BULK PKG. CAT. NO. | DESCRIPTION | SCREW SIZE | MAXIMUM TIE WIDTH ACCOM. | BULK PKG. QTY. |
|---|---|---|---|---|
| **TC368** | 2" x 2" Screw Mounted | #8 | .75/19.05 | 500 |
| **TC368A** | 2" x 2" Adhesive Mounted | #8 | .75/19.05 | 500 |

*-40° F to 176° F (-40° C to 80° C)*

- *Natural nylon color.*

***Note:*** *See expiration date on TC368A package. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.*

## Ty-Rap® Installation Tools

# Boost productivity and reduce user fatigue in demanding, high-volume cable tie installations!

# Ty-Rap® Pneumatic Cable Tie Installation Tool



For fast, consistent installation of cable ties in high-volume applications, you can't beat the new Ty-Rap® Pneumatic Cable Tie Installation Tool. Pneumatic power combined with a balanced, ergonomic design enables you to tension and trim large quantities of Ty-Rap® cable ties in rapid succession with accuracy and one-button ease.

- Easy, one-step tensioning and cut-off of cable ties
- Narrow nose rotates 360° to maneuver in tight spaces
- Easy-access tension-adjustment wheel at nose with locking mechanism for repetitive-tension work
- Spare cutting blade storage in handle
- Cuts tail off flush — no sharp ends to injure installers or damage cables
- Holds tails captive until ejected by operator — no mess to clean up
- Soft, over-molded grip with over-sized trigger
- Wide cable-tie insertion gap — no fumbling to insert tie




### Specifications

- Dimensions: 10"L x 6¼"H x 1⅝"D
- Weight: 14 oz.
- Operating Pressure: 85–100 psi (non-lubricated air)
- Cable Tie Tensile-Strength Range: 18–50 lbs.

| CAT. NO. | DESCRIPTION | STD. PKG. QTY. |
|---|---|---|
| ERG50P | Pneumatic Cable Tie Installation Tool for 18–50 lb. Ties (includes 9-ft. air hose) | 1 |



Tightens cable tie and cuts flush in one step



360° rotating nose for maximum flexibility



Narrow-shaped nose for easy reach in tight spaces



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## Ty-Rap® Installation Tools

# The most comfortable and efficient hand tool available for installing cable ties!

## Ty-Rap® Cable Tie Installation Tool




Thomas & Betts set out to develop a reliable, high-performance hand-operated cable tie installation tool. It's ergonomic with more features than any competing tool on the market. This new and improved Ty-Rap® Cable Tie Installation Tool is the result, and it fits the bill in every aspect.

Our engineers carefully considered user comfort and designed this rugged yet lightweight, well-balanced tool to reduce stress, fatigue and the risk of cumulative trauma injury to the hand and wrist. They didn't stop with ergonomics, however. This new tool offers a flush cable tie tail-to-head trim, a longer handle stroke requiring less handle force, higher tension capabilities and much, much more!






Eliminate sharp cable tie ends with flush tail-to-head cut-off

### Specifications

- Dimensions: 7" (177mm) L x 5" (127mm) H x 1⅝" (41.3mm) W
- Weight: 9 oz. (255g)

| STD. PKG CAT. NO. | DESCRIPTION | STD. PKG. QTY. |
|---|---|---|
| ERG50 | Tool for 18–50 lb. (80–222N) Cable Ties | 1 |
| ERG120 | Tool for 50–120 lb. (222–534N) Cable Ties | 1 |




Most flexible with a 360° rotating nose for use at any angle and in tight spaces




Adjustable grip perfectly fits any hand size



Tension-adjustment wheel on nose for easy access and setting

# Ty-Rap® Installation Tools

## Lightweight. Economical. Durable. Perfect for spot-tying!

### Ty-Rap® Cable Tie Installation Tool — Light Duty

- Installs Ty-Rap cable ties up to .301" wide by .080" thick
- Designed for use by both left- and right-handed operators
- Lightweight, high-impact polymer and steel components

They cinch up the tie with a squeeze action, and cut away the excess tail when twisted 180°. A specially designed pawl cuts away the tail if the tension limit is exceeded, thereby preventing the cable tie from being over-tightened.



| STD. PKG. CAT. NO. | DESCRIPTION | TIE BODY WIDTH IN./MM | STD. PKG. QTY. |
|---|---|---|---|
| **WT1-TB** | Cable Tie Installation Tool, 18–50 lbs. (80–222.4N) | .09–.18/2.39–4.67 | 1 |
| **WT2-TB** | Cable Tie Installation Tool, 50–120 lbs. (222.4–533.8N) | .18–.301/4.67–7.65 | 1 |

## Cuts tail off — flush.

### Ty-Rap® Cable Ties Installation Tool — Metallic

- Installs Ty-Rap® cable ties
- Rugged metallic construction
- Pistol-grip installation tool
- Easy tension adjustment
- Tensions and cuts tie tail off flush



| STD. PKG. CAT. NO. | DESCRIPTION | TIE BODY WIDTH IN./MM | STD. PKG. QTY. |
|---|---|---|---|
| **WT193A** | Cable Tie Installation Tool, 18–50 lbs. (80–222.4N) | .09–.18/2.39–4.67 | 1 |

## Easy tension adjustment!

### Ty-Rap® Heavy-Duty Installation Tool — Mil Spec Approved



- Installs Ty-Rap® cable ties
- Rugged metallic construction
- Pistol-grip installation tool
- Tensions and cut cable tie tail off flush

| STD. PKG. CAT. NO. | DESCRIPTION | TIE BODY WIDTH IN./MM | STD. PKG. QTY. |
|---|---|---|---|
| **WT199** | Installation Tool, 18–50 lbs. (80–222.4N) | .09–.18/2.39–4.67 | 1 |
| **WT197** | Installation Tool, 50–120 lbs. (222.4–533.8N) | .18–.30/4.67–7.65 | 1 |

** Mil Spec Approved (WT199 — MS90387-1, WT197 — MS90387-2)*

## Makes tie installation easy!

### Ty-Rap® Installation Tool — Deltec® & Stainless Steel

**WT3D**

- Installs both self-locking Ty-Rap® cable ties and lashing ties

**WT3S**

- Installs stainless steel ties



*WT3D*

| STD. PKG. CAT. NO. | DESCRIPTION | TIE BODY WIDTH IN./MM | STD. PKG. QTY. |
|---|---|---|---|
| **WT3D** | Deltec Installation Tool | .18–.50/4.67–12.70 | 1 |
| **WT3S** | Stainless Steel Installation Tool | Up to .50/12.70 | 1 |



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# Ty-Rap® Installation Tools



## Get the job done right!

### Ty-Rap® Heavy-Duty Installation Tool — Stainless Steel

- Installs Ty-Rap® Ball-Lock and Multi-Lok Stainless Steel Cable Ties
- Rugged stainless steel construction
- Pistol-type installation tool
- Adjustable tension settings



| STD. PKG. CAT. NO. | DESCRIPTION | TIE BODY WIDTH IN./MM | STD. PKG. QTY. |
|---|---|---|---|
| DAS250 | Stainless Steel Installation Tool | Up to .31/7.87 | 1 |

## The right tools make installing Ty-Rap® Stainless Steel Cable Ties a cinch!

### Installation Tools for Dual-Lock Stainless Steel Ties

- Lightweight
- Easy-to-use tool applies tension, locks tie with the dual lock, and cuts off band flush with top surface of buckle



| CAT. NO. | DESCRIPTION | WEIGHT LBS/KG | STD. PKG. QTY. |
|---|---|---|---|
| WTA290 | Hand tool to apply mini stainless steel cable ties | 1.17/.53 | 1 |
| WTA250 | Hand tool to apply standard stainless steel cable ties | 1.17/.53 | 1 |

## Quality tools for tensioning.

### Tensioning Tools



*WTAE200*
*Cable Tie Tensioner*



*WTAE201*
*Tensioning Hook*

| CAT. NO. | DESCRIPTION | WEIGHT LBS/KG | STD. PKG. QTY. |
|---|---|---|---|
| WTAE200 | Cable Tie Tensioner, for tensioning Re-Usable Ties and Multi-Lok Ties | .6/.27 | 1 |
| WTAE201 | Tensioning Hook, for tensioning Re-Usable Ties and Multi-Lok Ties | .1/.05 | 1 |

# Ty-Rap® Installation Tools

## Apply tension, cut and secure with confidence!

### Installation Tools for Free-End Stainless Steel Ties



*WTC001*
*A drop-forged tool with tensioning capability to do all ¼" to ¾" Free-End Clamp sizes.*



*WTC075*
*Designed to install ¼" to ⅝" wide Free-End Clamps. The lightweight, ratchet-action tool tension cuts and secures the buckle tab.*



*WTJ020*
*Lightweight pocket-sized toll to install ¼" and ⅜" wide Free-End Clamps. This tool also applies tension and has a built-in cutter.*

| CAT. NO. | DESCRIPTION | WEIGHT LBS/KG | STD. PKG. QTY. |
|---|---|---|---|
| **WTJ020** | Compact Free-End Stainless Steel Cable Tie Installation Tool for ¼" to ⅜" sizes | 1.1/.50 | 1 |
| **WTC075** | Pistol-Grip Free-End Stainless Steel Cable Tie Installation Tool for ¼" to ⅝" sizes | 2.6/1.18 | 1 |
| **WTC001** | Free-End Stainless Steel Cable Tie Installation Tool for All Sizes | 4.4/2.00 | 1 |

## Makes tie installation easy!

### Ty-Rap® Installation Tool

- Installs stainless steel ties



| CAT. NO. | DESCRIPTION | TIE BODY WIDTH IN./MM. | STD. PKG. QTY. |
|---|---|---|---|
| **WT3S** | Installation Tool for Stainless Steel Ties | Up to .50/12.70 | 1 |

***Note**: Tensions only*



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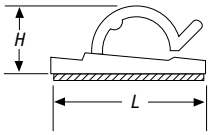
# Ty-Rap® Wire Management Clips, Clamps, Spiral Wrap and More

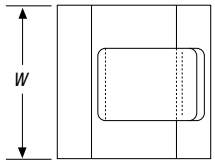


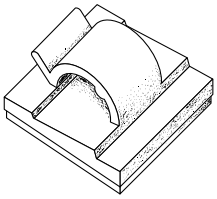
## Versatile adhesive clips keep cable paths organized.

### Round Adhesive Clips

- Diverse cable clamps for bundle diameters from .160" to .620"
- Mounted on a rubber-based closed cell foam adhesive
- Flexible center tang for removal or addition of cables



| BULK PKG. CAT. NO. | MATERIAL | HEIGHT IN./MM | H LENGTH IN./MM | L WIDTH IN./MM | W MAXIMUM BUNDLE | MOUNTING METHOD | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|
| **RANY-280-9-D** | Nylon | .410/10.41 | 1.000/25.40 | 1.000/25.40 | .280/7.11 | Rubber-based adhesive | 500 |
| **RANY-530-9-D** | Nylon | 15.75/.620 | 1.000/25.40 | 1.000/25.40 | .530/13.46 | Rubber-based adhesive | 500 |
| **RANY-620-9-D** | Nylon | 14.22/.560 | 1.250/31.75 | 28.45 | .620/15.75 | Rubber-based adhesive | 500 |

*Natural nylon color.*

*Adhesive for use in temperatures ranging from 32° F to 150° F (0° C to 66° C).*

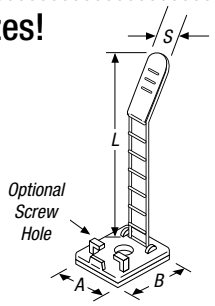
***Note:*** *See product expiration date on package. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.*

## Release and refasten with ease — in three adjustable sizes!

### Adjustable Cable Clamps

- Three sizes for bundles from .118" to .984"
- Ladder-style fastener is easily released and refastened
- Supplied on a rubber-based closed cell foam adhesive
- Optional screw hole for #4 or #5 flat head screw





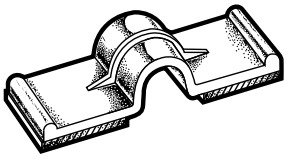

| STD. PKG CAT. NO. | MATERIAL | A HEIGHT IN./MM | B LENGTH IN./MM | S WIDTH IN./MM | L MAXIMUM BUNDLE IN./MM | APPLIED WIRE RANGE IN./MM | SCREW HOLE DIAMETER IN./MM | STD. PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| **ULNY-013-8-C** | Gray Nylon | .709/18.00 | .984/24.99 | .314/7.98 | 2.340/59.44 | .118 – .500/3.0 – 12.7 | .110/2.79 | 100 |
| **ULNY-018-8-C** | Gray Nylon | .827/21.00 | 1.180/29.97 | .472/11.99 | 3.120/79.25 | .197 – .827/5.0 – 21.0 | .110/2.79 | 100 |
| **ULNY-023-8-C** | Gray Nylon | .984/24.99 | 1.380/35.05 | .551/14.00 | 3.370/79.25 | .275 – .984/7.0 – 25.0 | .135/3.43 | 100 |

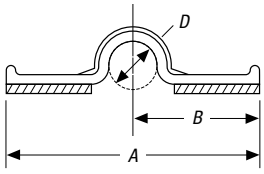
*Adhesive for use in temperatures ranging from 32° F to 150° F (0° C to 66° C).*

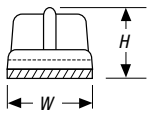
## Choose from four sizes to accommodate bundles up to ½".

### Press Clips

- Clips are provided on a rubber-based closed cell foam adhesive
- Stocked in 6.6 natural nylon color. Contact factory for availability in special materials





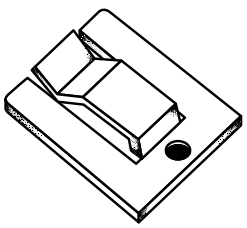

| BULK PKG. CAT. NO. | MATERIAL | D DIAMETER IN./MM | A IN./MM | B IN./MM | H IN./MM | W IN./MM | PKG. QTY. |
|---|---|---|---|---|---|---|---|
| **PCNY-125-9-D** | Nylon | .13/3.30 | .76/19.30 | .38/9.65 | .21/5.33 | .38/9.65 | 500 |
| **PCNY-250-9-D** | Nylon | .25/6.35 | 1.38/35.05 | .69/17.53 | .32/8.13 | .50/12.70 | 500 |
| **PCNY-375-9-D** | Nylon | .38/9.65 | 1.47/37.34 | .74/18.80 | .44/11.176 | .63/16.00 | 500 |
| **PCNY-500-9-D** | Nylon | .50/12.70 | 1.59/40.39 | .80/20.32 | .59/15.00 | .75/19.05 | 500 |

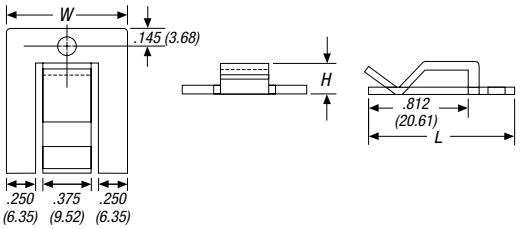
*For use in temperatures ranging from 32° F to 150° F (0° C to 66° C).*

# Flat design provides an attractive, yet discreet look.

## Flat Cable Screw Clip

- Flat ribbon cable clamp with mounting hole for #8 screw
- Stocked in 6.6 natural nylon color
- Flexible center tang enables easy removal and replacement of desired cable





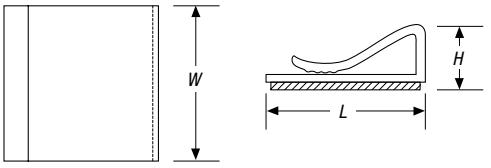

| STD. PKG. CAT. NO. | MATERIAL | HEIGHT IN./MM | H LENGTH IN./MM | L WIDTH IN./MM | W MOUNTING METHOD | STD. PKG. |
|---|---|---|---|---|---|---|
| **FSNY-812-9-C** | Nylon | .25/6.35 | 1.19/30.23 | 1.00/25.40 | #8 Screw | 100 |

*For use in temperatures ranging from 32° F to 150° F (0° C to 66° C).*

# Adhesive eliminates need for tools when mounting clips.

## Flat PVC Clips

- Low-profile clip for single or multiple layers of flat ribbon cable.
- "Single-Cut" on a rubber-based closed cell foam adhesive
- Gray PVC
- UL Flammability 94 V-0 (clip)






| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MATERIAL | H HEIGHT IN./MM | L LENGTH IN./MM | W WIDTH IN./MM | MOUNTING METHOD | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| **FRPV-1000-8-C** | **FRPV-1000-8-D** | Gray PVC | .42/10.67 | 1.06/26.92 | 1.00/25.40 | Adhesive | 100 | 500 |

*For use in temperatures ranging from 32° F to 150° F (0° C to 66° C).*

***Note:*** *See product expiration date on package. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.*



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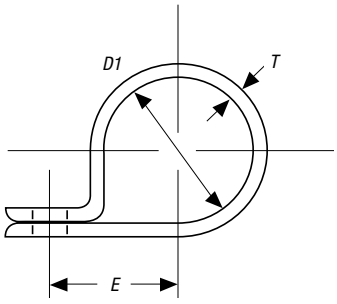
# Ty-Rap® Wire Management Clips, Clamps, Spiral Wrap and More

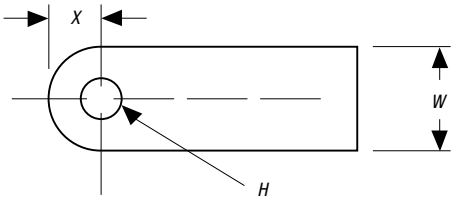
## Choose the diameter you need to clamp a specific-sized cable.

### Plain Edge Cable Clamps

- Fully radiused inside edges with size markings in inches and millimeters for easy identification
- Stocked in natural and black nylon 6.6
- Plain edge cable clamps are designed to perform to NAS-1397P
- 18 diameters and 2 widths with mounting holes for #8 and #10 screws
- Replace "-M" or "-D" with "-C" for 100 pack






*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

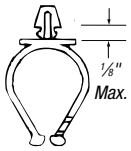
| WHITE CAT. NO. | BLACK CAT. NO. | D1 CLOSED DIA. IN./MM | E IN./MM | T THICKNESS IN./MM | W WIDTH IN./MM | H MOUNTING HOLE SIZE | X IN./MM | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| N4NY-002-9-M | N4NY-002-0-M | .13/3.18 | .34/8.71 | .05/1.27 | .38/9.53 | #8 | .22/5.54 | 1,000 |
| N4NY-003-9-M | N4NY-003-0-M | .19/4.475 | .38/9.60 | .05/1.27 | .38/9.53 | #8 | .22/5.54 | 1,000 |
| N4NY-004-9-M | N4NY-004-0-M | .25/6.35 | .42/10.70 | .05/1.27 | .38/9.53 | #8 | .22/5.54 | 1,000 |
| N4NY-005-9-M | N4NY-005-0-M | .31/7.92 | .44/11.20 | .05/1.27 | .38/9.53 | #8 | .22/5.54 | 1,000 |
| N4NY-006-9-M | N4NY-006-0-M | .38/9.53 | .46/11.79 | .05/1.27 | .38/9.53 | #8 | .22/5.54 | 1,000 |
| N4NY-007-9-M | N4NY-007-0-M | .44/11.10 | .50/12.70 | .05/1.27 | .38/9.53 | #8 | .22/5.54 | 1,000 |
| N4NY-008-9-M | N4NY-008-0-M | .50/12.70 | .53/13.46 | .05/1.27 | .38/9.53 | #8 | .22/5.54 | 1,000 |
| N6NY-004C-9-M | N6NY-004C-0-M | .25/6.35 | .44/11.10 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 1,000 |
| N6NY-005C-9-M | N6NY-005C-0-M | .31/7.92 | .47/12.04 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 1,000 |
| N6NY-006C-9-M | N6NY-006C-0-M | .38/9.53 | .50/12.70 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 1,000 |
| N6NY-007C-9-M | N6NY-007C-0-M | .44/11.10 | .53/13.54 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 1,000 |
| N6NY-008C-9-M | N6NY-008C-0-M | .50/12.70 | .55/14.05 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 1,000 |
| N6NY-009-9-M | N6NY-009-0-M | .56/14.27 | .60/15.32 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 1,000 |
| N6NY-010-9-M | N6NY-010-0-M | .63/15.88 | .63/15.88 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 1,000 |
| N6NY-011-9-M | N6NY-011-0-M | .69/17.45 | .67/16.89 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 1,000 |
| N6NY-012-9-M | N6NY-012-0-M | .75/19.05 | .67/17.75 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 1,000 |
| N6NY-013-9-M | N6NY-013-0-M | .81/20.62 | .77/19.43 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 1,000 |
| N6NY-014-9-M | N6NY-014-0-M | .88/22.23 | .80/20.19 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 1,000 |
| N6NY-016-9-M | N6NY-016-0-M | 1.00/25.40 | .83/21.00 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 1,000 |
| N6NY-018-9-D | N6NY-018-0-D | 1.13/28.58 | .94/23.88 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 500 |
| N6NY-019-9-D | N6NY-019-0-D | 1.19/30.15 | .96/24.46 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 500 |
| N6NY-020-9-D | N6NY-020-0-D | 1.25/31.75 | .98/24.90 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 500 |
| N6NY-022-9-D | N6NY-022-0-D | 1.38/34.93 | 1.05/26.54 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 500 |
| N6NY-024-9-D | N6NY-024-0-D | 1.50/38.10 | 1.11/28.30 | .06/1.52 | .50/12.70 | #10 | .22/5.54 | 500 |

# Ty-Rap® Wire Management Clips, Clamps, Spiral Wrap and More

## Several mounting styles available.

### Mechanical-Locking Routing Clamps

- Clamp acts as a retainer during wire routing, and as a permanent clamp when desired





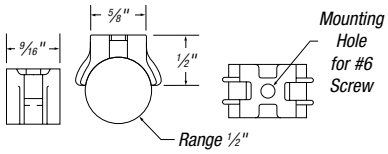


| STD. CAT. NO. | MOUNTING HOLE SIZE IN./MM | BUNDLE DIA. IN./MM | MAX. WIRE BUNDLE DIA. | LENGTH IN./MM | LENGTH IN./MM | STD. PKG. QTY. |
|---|---|---|---|---|---|---|
| **TC88** | .250/6.35 | .500/12.7 | .250/6.35 | .891/22.63 | 100 | 1,000 |
| **TC95** | .250/6.35 | 1.000/25.4 | .500/12.7 | 1.590/40.39 | 100 | 1,000 |

• *Natural nylon color.*
*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

### Ty-Rap® Saddle Mounting Plate

- For use with round bundles




| STD. PKG. CAT. NO. | MAX TIE WIDTH IN./MM | SIZE IN./MM | BUNDLE HOLE SIZE IN./MM | MOUNTING STD. PKG. QTY. |
|---|---|---|---|---|
| **TC92** | .190/4.83 | ½–1¼/12.7–31.75 | #6 Screw | 100 |

• *Natural nylon color.*
*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

## Wires are held ½" above work surface for easy tying.

### Wire-Bundle Retainers

- Consist of a spring-loaded clip and an elastic bundle support
- Wires are inserted by snapping them through spring-loaded clips



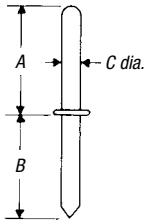
| STD. PKG. CAT. NO. | FASTENER | MAX. WIRE BUNDLE DIA. | WIDTH IN./MM | LENGTH IN./MM | HEIGHT IN./MM | STD. PKG. QTY. |
|---|---|---|---|---|---|---|
| **TC86** | #6 screws | .750/19.05 | 1.750/44.45 | 1.813/46.05 | 25 | 1,000 |
| **TC87** | #6 screws | 1.250/31.75 | 2.469/62.71 | 2.281/57.94 | 10 | 1,000 |

## Hardened, nickel-plated, steel construction.

### Harness-Board Nails

- For wire harness board manufacturing






| STD. PKG. CAT. NO. | DIMENSIONS A | B | C | STD. PKG. |
|---|---|---|---|---|
| **HBP112** | 1.500/38.10 | .625/15.88 | .082/2.08 | 100 |
| **HBP2** | 2.000/50.80 | .625/15.88 | .092/2.34 | 100 |
| **HBP212** | 2.500/63.50 | .625/15.88 | .105/2.67 | 100 |
| **HBP3** | 3.000/76.20 | .625/15.88 | .120/3.05 | 100 |

## Keep wire bundles apart.

### Wire-Bundle Spacer



| STD. PKG. CAT. NO. | MAXIMUM TIE WIDTH ACCOM. | WIDTH IN./MM | LENGTH IN./MM | STD. PKG. |
|---|---|---|---|---|
| **TC5339** | .190/4.83 | .266/6.76 | .500/12.70 | 100 |

• *Natural nylon color.*
*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*



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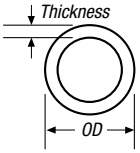
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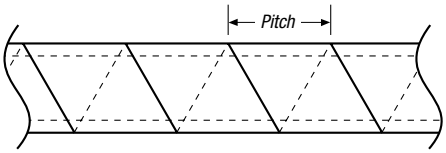
# Install with gaps for greater flexibility or butted together for maximum abrasion resistance, insulation and rigidity!



## Spiral Wrap

- Packaged in 100 foot reels
- Protects bundles from .063" to 7" (1.6 mm to 177.8 mm) diameters
- Available in three material types
- Also commonly known as reverse cut, left-handed cut or counter-clockwise cut
- Use cutting tool CC120B (see **page C-57**)
- UL94HB Flammability Rating




| STD. PKG. CAT. NO. | MATERIAL | OUTSIDE DIAMETER IN./MM | PITCH IN./MM | NOMINAL WALL THICKNESS IN./MM | MINIMUM/MAXIMUM BUNDLE RANGE IN./MM | MINIMUM/MAXIMUM BUNDLE RANGE IN./MM | REEL QTY. |
|---|---|---|---|---|---|---|---|
| **SRPE-125-9-C** | Natural Polyethylene | .13/3.18 | .21/5.33 | .04/.89 | .06/1.60 | .50/12.70 | 1 (100 ft.) |
| **SRPE-187-9-C** | Natural Polyethylene | .19/4.75 | .24/6.10 | .04/1.02 | .13/3.18 | 1.50/38.10 | 1 (100 ft.) |
| **SRPE-250-9-C** | Natural Polyethylene | .25/6.35 | .38/9.53 | .05/1.14 | .19/4.78 | 2.00/50.80 | 1 (100 ft.) |
| **SRPE-375-9-C** | Natural Polyethylene | .38/9.53 | .44/11.13 | .05/1.32 | .31/7.95 | 3.00/76.20 | 1 (100 ft.) |
| **SRPE-500-9-C** | Natural Polyethylene | .50/12.70 | .56/14.30 | .06/1.57 | .38/9.53 | 4.00/101.60 | 1 (100 ft.) |
| **SRPE-625-9-C** | Natural Polyethylene | .63/15.88 | .63/15.88 | .06/1.57 | .63/15.88 | 4.50/114.30 | 1 (100 ft.) |
| **SRPE-750-9-C** | Natural Polyethylene | .63/15.88 | .75/19.05 | .07/1.65 | .75/19.05 | 5.00/127.00 | 1 (100 ft.) |
| **SRPE-1000-9-C** | Natural Polyethylene | 1.00/25.40 | 1.11/28.19 | .70/17.78 | 1.0/25.40 | 7.00/177.80 | 1 (100 ft.) |
| **SRPE-125-0-C** | Weatherable Black Polyethylene | .13/3.18 | .21/5.33 | .04/.89 | .06/1.60 | .50/12.70 | 1 (100 ft.) |
| **SRPE-187-0-C** | Weatherable Black Polyethylene | .19/4.75 | .24/6.10 | .04/1.02 | .13/3.18 | 1.50/38.10 | 1 (100 ft.) |
| **SRPE-250-0-C** | Weatherable Black Polyethylene | .25/6.35 | .38/9.53 | .05/1.14 | .19/4.78 | 2.00/50.80 | 1 (100 ft.) |
| **SRPE-375-0-C** | Weatherable Black Polyethylene | .38/9.53 | .44/11.13 | .05/1.32 | .31/7.95 | 3.00/76.20 | 1 (100 ft.) |
| **SRPE-500-0-C** | Weatherable Black Polyethylene | .50/12.70 | .56/14.30 | .06/1.57 | .38/9.53 | 4.00/101.60 | 1 (100 ft.) |
| **SRPE-625-0-C** | Weatherable Black Polyethylene | .63/15.88 | .63/15.88 | .06/1.57 | .63/15.88 | 4.50/114.30 | 1 (100 ft.) |
| **SRPE-750-0-C** | Weatherable Black Polyethylene | .63/15.88 | .75/19.05 | .07/1.65 | .75/19.05 | 5.00/127.00 | 1 (100 ft.) |
| **SRPE-1000-0-C** | Weatherable Black Polyethylene | 1.00/25.40 | 1.11/28.19 | .70/17.78 | 1.0/25.40 | 7.00/177.80 | 1 (100 ft.) |
| **SRNY-187-9-C** | Natural Nylon 6.6 | .19/4.75 | .24/6.10 | .03/.64 | .13/3.18 | 1.50/38.10 | 1 (100 ft.) |

*Sold in 100-ft. rolls.*

**Polyethylene**

Available in natural and weatherable black.

For general indoor use to 122° F (50° C). Material is flexible and easy to work with.

**Weatherable Polyethylene**

Available in black only. Designed to resist ultraviolet light in outdoor applications.

**Nylon 6.6**

Available in natural only.

Offers highest abrasion resistance and rigidity. Self-extinguishing to UL94HB and a UL® Recognized Component.

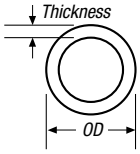
## Ty-Rap® Wire Management Clips, Clamps, Spiral Wrap and More

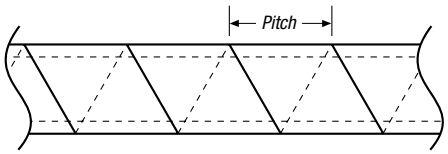
# Perfect for protection of bundles from .063" to 7" diameters.

# Forward Cut Spiral Wrap

- Install with gaps for greater flexibility or butted together for maximum abrasion resistance, insulation, and rigidity
- Available in three materials
- Also known as right-hand cut or clockwise cut
- Use cutting tool CC120B (**page C-57**)






| STD. PKG. CAT. NO. | MATERIAL | OUTSIDE DIAMETER IN./MM | PITCH IN./MM | NOMINAL WALL THICKNESS IN./MM | MIN./MAX. BUNDLE RANGE IN./MM | UL FLAMMABILITY | REEL QTY. |
|---|---|---|---|---|---|---|---|
| **SRPE-125F-9-C** | Natural Polyethylene | .19/4.75 | .24/6.10 | .04/1.02 | .13–1.50/3.18–80.77 | 94 HB | 1 (100 ft.) |
| **SRPE-187F-9-C** | Natural Polyethylene | .19/4.75 | .24/6.10 | .04/1.02 | .13–1.50/3.18–80.77 | 94 HB | 1 (100 ft.) |
| **SRPE-250F-9-C** | Natural Polyethylene | .25/6.35 | .38/9.53 | .05/1.14 | .19–2.0/4.78–50.80 | 94 HB | 1 (100 ft.) |
| **SRPE-375F-9-C** | Natural Polyethylene | .38/9.53 | .44/11.13 | .05/1.32 | .31–3.0/7.95–76.20 | 94 HB | 1 (100 ft.) |
| **SRPE-500F-9-C** | Natural Polyethylene | .50/12.70 | .56/14.30 | .06/1.57 | .38–4.0/9.53–101.60 | 94 HB | 1 (100 ft.) |
| **SRPE-625F-9-C** | Natural Polyethylene | .63/15.88 | .63/15.88 | .06/1.57 | .63–4.5/15.88–114.30 | 94 HB | 1 (100 ft.) |
| **SRPE-750F-9-C** | Natural Polyethylene | .75/19.05 | .75/19.05 | .07/1.65 | .75–5.0/19.05–127.00 | 94 HB | 1 (100 ft.) |
| **SRPE-1000F-9-C** | Natural Polyethylene | 1.0/25.40 | 1.11/28.19 | .07/1.78 | 1.0–7.0/25.40–177.80 | 94 HB | 1 (100 ft.) |
| **SRPE-125F-0-C** | Weatherable Black Polyethylene | .19/4.75 | .24/6.10 | .04/1.02 | .13–1.50/3.18–80.77 | 94 HB | 1 (100 ft.) |
| **SRPE-187F-0-C** | Weatherable Black Polyethylene | .19/4.75 | .24/6.10 | .04/1.02 | .13–1.50/3.18–80.77 | 94 HB | 1 (100 ft.) |
| **SRPE-250F-0-C** | Weatherable Black Polyethylene | .25/6.35 | .38/9.53 | .05/1.14 | .19–2.0/4.78–50.80 | 94 HB | 1 (100 ft.) |
| **SRPE-375F-0-C** | Weatherable Black Polyethylene | .38/9.53 | .44/11.13 | .05/1.32 | .31–3.0/7.95–76.20 | 94 HB | 1 (100 ft.) |
| **SRPE-500F-0-C** | Weatherable Black Polyethylene | .50/12.70 | .56/14.30 | .06/1.57 | .38–4.0/9.53–101.60 | 94 HB | 1 (100 ft.) |
| **SRPE-625F-0-C** | Weatherable Black Polyethylene | .63/15.88 | .63/15.88 | .06/1.57 | .63–4.5/15.88–114.30 | 94 HB | 1 (100 ft.) |
| **SRPE-750F-0-C** | Weatherable Black Polyethylene | .75/19.05 | .75/19.05 | .07/1.65 | .75–5.0/19.05–127.00 | 94 HB | 1 (100 ft.) |
| **SRPE-1000F-0-C** | Weatherable Black Polyethylene | 1.0/25.40 | 1.11/28.19 | .07/1.78 | 1.0–7.0/25.40–177.80 | 94 HB | 1 (100 ft.) |

*Sold in 100-ft. rolls.*

### Polyethylene

Available in natural and weatherable black.

For general indoor use to 122° F (50° C). Material is flexible and easy to work with.

### Weatherable Polyethylene

Available in black only. Designed to resist ultraviolet light in outdoor applications.

### Nylon 6.6

Available in natural only.

Offers highest abrasion resistance and rigidity. Self-extinguishing to UL94HB and a UL® Recognized Component.



Thomas&Betts

**United States**
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

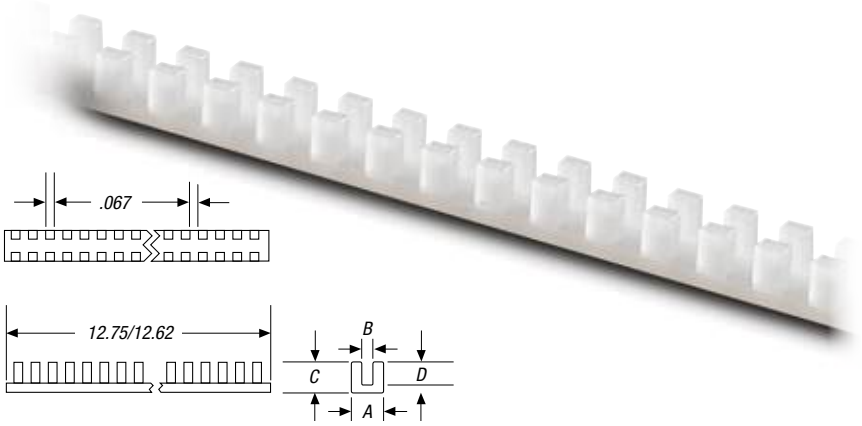
**Technical Services**
Tel: 888.862.3289

www.tnb.com

# Suitable for round hole or odd-shape applications!

## Molded Grommeting

- Used to protect panel edges and knockouts where the chafing of passing wires is a concern
- Strip length — 12¾"




| STD. PKG. CAT. NO. | MATERIAL | A IN./MM | B IN./MM | C IN./MM | D IN./MM | FOR PANEL THICKNESS IN./MM | STD. PKG. |
|---|---|---|---|---|---|---|---|
| **GSNY-052-9-C** | Natural Nylon 6.6 | .15/3.81 | .06/1.42 | .16/3.94 | .10/2.54 | .02–.052/.38–1.32 | 100 |
| **GSNY-085-9-C** | Natural Nylon 6.6 | .18/4.45 | .09/2.29 | .16/3.94 | .10/2.54 | .05–.085/1.35–2.16 | 100 |
| **GSNY-128-9-C** | Natural Nylon 6.6 | .22/5.59 | .13/3.33 | .16/3.94 | .10/2.54 | .09–.128/2.18–3.25 | 100 |
| **GSNY-192-9-C** | Natural Nylon 6.6 | .36/8.26 | .20/4.95 | .23/5.84 | .16/4.06 | .19–.192/3.25–4.88 | 100 |

# High-carbon, Teflon® coated steel blade!

## Cutting Tool

Use our cutting tool for all your spiral wrap, plastic pipe, raceway, PVC conduit and tubing cutting needs up to 1¼" I.D.

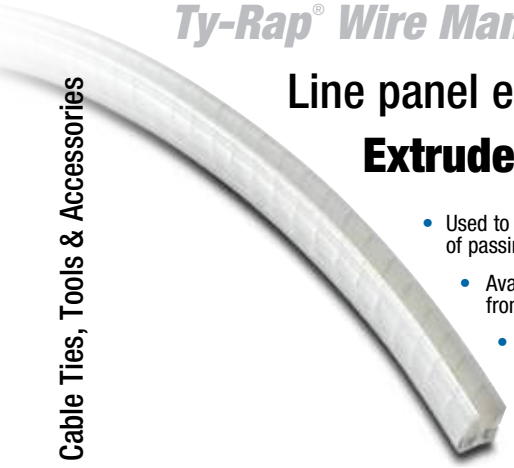
- Contoured handle resists tube crushing
- Produces no "sawdust" — no need to debur
- Lightweight, low-profile and no exposed blade when stored
- Can be used to cut Carlon® Electrical Non-Metallic Tubing (ENT)



| CAT. NO. | DESCRIPTION |
|---|---|
| **CC120B** | Cutting Tool |

*Teflon® is a trademark of the DuPont Corporation.*

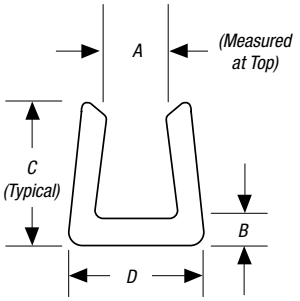
# Ty-Rap® Wire Management Clips, Clamps, Spiral Wrap and More



## Line panel edges and knockouts!

## Extruded Grommeting

- Used to line panel edges and knockouts where the chafing of passing wires is a concern
- Available in 8 stock sizes in 100-ft. lengths for panels from .040" (1.02mm) to .250" (6.35mm) thick
- A variety of stocked materials to cover a wide range of applications




***Note:*** *Min. bend radius is 1¼".*

| STD. PKG. CAT. NO. | MATERIAL | A MAX. PANEL THICKNESS IN./MM | B GROMMETING THICKNESS IN./MM | C GROMMETING HEIGHT IN./MM | D GROMMETING WIDTH IN./MM | UL FLAMMABILITY | REEL QTY. |
|---|---|---|---|---|---|---|---|
| **GRNY-040-9-C** | Natural Nylon | .04/1.02 | .04/1.02 | .19/4.83 | .13/3.18 | 94 V-2 | 1 (100 ft.) |
| **GRNY-052-9-C** | Natural Nylon | .05/1.32 | .04/1.02 | .19/4.83 | .13/3.18 | 94 V-2 | 1 (100 ft.) |
| **GRNY-062-9-C** | Natural Nylon | .06/1.57 | .05/1.14 | .20/5.08 | .17/4.32 | 94 V-2 | 1 (100 ft.) |
| **GRNY-085-9-C** | Natural Nylon | .09/2.16 | .05/1.14 | .20/5.08 | .17/4.32 | 94 V-2 | 1 (100 ft.) |
| **GRNY-100-9-C** | Natural Nylon | .10/2.54 | .05/1.14 | .22/5.89 | .21/5.33 | 94 V-2 | 1 (100 ft.) |
| **GRNY-125-9-C** | Natural Nylon | .13/3.18 | .05/1.27 | .22/5.89 | .21/5.21 | 94 V-2 | 1 (100 ft.) |
| **GRNY-187-9-C** | Natural Nylon | .19/4.75 | .05/1.27 | .27/6.86 | .28/6.99 | 94 V-2 | 1 (100 ft.) |
| **GRNY-250-9-C** | Natural Nylon | .25/6.35 | .05/1.27 | .28/7.11 | .379/.40 | 94 V-2 | 1 (100 ft.) |
| **GRNY-040-0-C** | Black Nylon | .04/1.02 | .04/1.02 | .19/4.83 | .13/3.18 | 94 V-2 | 1 (100 ft.) |
| **GRNY-052-0-C** | Black Nylon | .05/1.32 | .04/1.02 | .19/4.83 | .13/3.18 | 94 V-2 | 1 (100 ft.) |
| **GRNY-062-0-C** | Black Nylon | .06/1.57 | .05/1.14 | .20/5.08 | .17/4.32 | 94 V-2 | 1 (100 ft.) |
| **GRNY-085-0-C** | Black Nylon | .09/2.16 | .05/1.14 | .20/5.08 | .17/4.32 | 94 V-2 | 1 (100 ft.) |
| **GRNY-100-0-C** | Black Nylon | .10/2.54 | .05/1.14 | .22/5.89 | .21/5.33 | 94 V-2 | 1 (100 ft.) |
| **GRNY-125-0-C** | Black Nylon | .13/3.18 | .05/1.27 | .22/5.89 | .21/5.21 | 94 V-2 | 1 (100 ft.) |
| **GRNY-187-0-C** | Black Nylon | .19/4.75 | .05/1.27 | .27/6.86 | .28/6.99 | 94 V-2 | 1 (100 ft.) |
| **GRNY-250-0-C** | Black Nylon | .25/6.35 | .05/1.27 | .28/7.11 | .379/.40 | 94 V-2 | 1 (100 ft.) |
| **GRPE-040-9-C** | Natural Polyethylene | .04/1.02 | .04/1.02 | .19/4.83 | .13/3.18 | 94 HB | 1 (100 ft.) |
| **GRPE-052-9-C** | Natural Polyethylene | .05/1.32 | .04/1.02 | .19/4.83 | .13/3.18 | 94 HB | 1 (100 ft.) |
| **GRPE-062-9-C** | Natural Polyethylene | .06/1.57 | .05/1.14 | .20/5.08 | .17/4.32 | 94 HB | 1 (100 ft.) |
| **GRPE-085-9-C** | Natural Polyethylene | .09/2.16 | .05/1.14 | .20/5.08 | .17/4.32 | 94 HB | 1 (100 ft.) |
| **GRPE-100-9-C** | Natural Polyethylene | .10/2.54 | .05/1.14 | .22/5.89 | .21/5.33 | 94 HB | 1 (100 ft.) |
| **GRPE-125-9-C** | Natural Polyethylene | .13/3.18 | .05/1.27 | .22/5.89 | .21/5.21 | 94 HB | 1 (100 ft.) |
| **GRPE-187-9-C** | Natural Polyethylene | .19/4.75 | .05/1.27 | .27/6.86 | .28/6.99 | 94 HB | 1 (100 ft.) |
| **GRPE-250-9-C** | Natural Polyethylene | .25/6.35 | .05/1.27 | .28/7.11 | .379/.40 | 94 HB | 1 (100 ft.) |



Thomas&Betts

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Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

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## Ty-Rap® Wire Management Clips, Clamps, Spiral Wrap and More

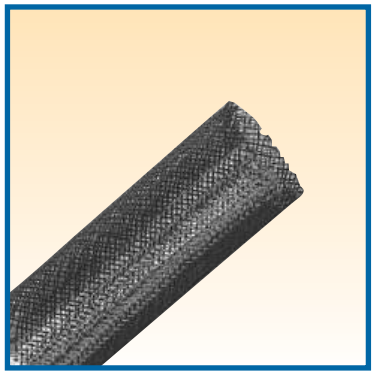
# Available in handy mini spools or bulk reels!

# Braided Expandable Wire Protection Sleeving

Thomas & Betts braided wire protection sleeving is used to bundle and protect wires and cables from abrasion and excessive wear. Its flexible, lightweight, open weave construction installs easily over a variety of bundle diameters and shapes. The sleeving is resistant to chemicals, fungus, fuels, UV sunlight, and has an indefinite shelf life. It's easily cut with a hot knife, which seals the end, preventing fraying. Ends can be secured using Ty-Rap® cable ties.

**Available in:**

- Handy mini spools or bulk reels
- Eight sizes from ⅛" (3.18mm) to 2½" (63.5mm) nominal I.D. size
- Solid or wraparound hook and loop braided expandable wire sleeving
- Meets UL94V-1
- Meets Federal Motor Vehicle Standard No. FMV SS 302



**Polyethylene Terephthalate (P.E.T.)**

A black 0.010" (.25mm) polyester monofilament material designed for indoor and outdoor applications. It's rated for continuous operating temp. -103° F to 257° F (-75° C to 125° C).

## Catalog Number System

| CAT. NO. | NOMINAL I.D. (IN./MM) | COLOR | NOMINAL DIAMETER RANGE (IN./MM) | REEL QUANTITY | STD. PKG. QTY. |
|---|---|---|---|---|---|
| S250PT-0 | .250/6.35 | Black | .125 to .375/3.18 to 9.53 | 200 ft./60.96m | 1 |
| S375PC-0 | .375/9.53 | Black | .187 to .625/4.75 to 15.88 | 125 ft./38.10m | 1 |

*Color*

*Nominal Diameter Range*

*Reel Size*

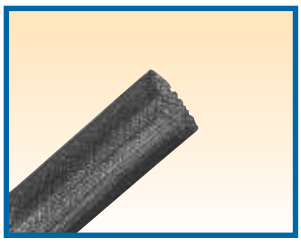
*Package Quantity*

***S** = Braided Expandable Wire Sleeving*

*Materials*
***P** = P.E.T. (Polyethylene Terephthalate)*
***PW** = P.E.T. hook & loop wraparound sleeving*

*Nominal I.D. Equivalents*
***.125** = ⅛"*
***.250** = ¼"*
***.375** = ⅜"*
***.500** = ½"*
***.750** = ¾"*
***1.250** = 1¼"*
***1.500** = 1½"*
***1.750** = 1¾"*
***2.000** = 2"*
***2.500** = 2½"*

# Ty-Rap® Wire Management Clips, Clamps, Spiral Wrap and More

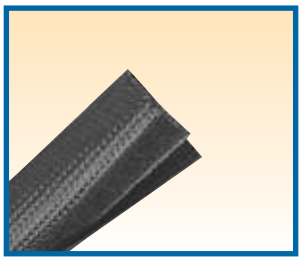


## Portable convenience!

### PET Braided Expandable Wire Sleeving — Mini Spool

| STD PKG. CAT. NO. | NOMINAL I.D. IN./MM | COLOR | NOMINAL DIAMETER RANGE IN./MM | SPOOL QUANTITY | STD. PKG. QTY. |
|---|---|---|---|---|---|
| S250PT-0 | .25/6.35 | Black | .13 to .38/3.18 to 9.53 | 200 ft./60.96m | 1 |
| S375PC-0 | .38/9.53 | Black | .19 to .63/4.75 to 15.88 | 125 ft./38.10m | 1 |
| S500PC-0 | .50/12.70 | Black | .25 to .75/6.35 to 19.05 | 100 ft./30.48m | 1 |
| S750PC-0 | .75/19.05 | Black | .50 to 1.25/12.70 to 31.75 | 100 ft./30.48m | 1 |
| S1250PL-0 | 1.25/31.75 | Black | .75 to 1.75/19.05 to 44.45 | 50 ft./15.24m | 1 |

***Note:*** *Order by spool, not per foot.*



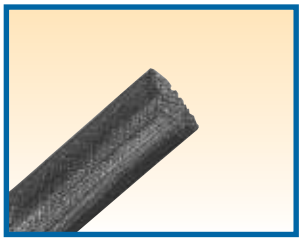
## Enables for easy wrapping of existing wire harnesses and cables!

### PET Hook and Loop, Wraparound Sleeving — Mini Spool

- No tools required to close the sleeving
- Hook and loop material is made of 100% nylon

| STD PKG. CAT. NO. | NOMINAL I.D. IN./MM | COLOR | NOMINAL DIAMETER RANGE IN./MM | SPOOL QUANTITY | STD. PKG. QTY. |
|---|---|---|---|---|---|
| S500PWL-0 | .50/12.70 | Black | .25 to .75/6.35 to 19.05 | 50 ft./15.24m | 1 |
| S750PWL-0 | .75/19.05 | Black | .50 to 1.25/12.70 to 31.75 | 50 ft./15.24m | 1 |
| S1250PWL-0 | 1.25/31.75 | Black | .75 to 1.75/19.05 to 44.45 | 50 ft./15.24m | 1 |
| S2000PWL-0 | 2.00/50.80 | Black | 1.50 to 3.50/38.10 to 88.90 | 50 ft./15.24m | 1 |

***Note:*** *Order by spool, not per foot.*

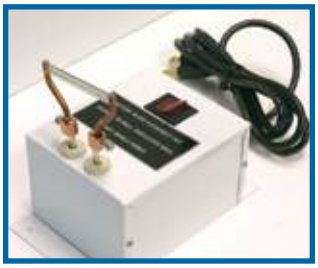


## Buy in bulk and save!

### PET Braided Expandable Wire Sleeving — Bulk Reel

| BULK PKG. CAT. NO. | NOMINAL I.D. IN./MM | COLOR | NOMINAL DIAMETER RANGE IN./MM | REEL QUANTITY | BULK PKG. QTY. |
|---|---|---|---|---|---|
| S125PM-0 | .125/3.18 | Black | .09 to .250/2.39 to 6.35 | 1,000 ft./304.80m | 1 |
| S250PM-0 | .25/6.35 | Black | .125 to .375/3.18 to 9.53 | 1,000 ft./304.80m | 1 |
| S500PD-0 | .50/12.70 | Black | .25 to .75/6.35 to 19.05 | 500 ft./152.40m | 1 |
| S750PK-0 | .75/19.05 | Black | .50 to 1.25/12.70 to 31.75 | 250 ft./76.20m | 1 |
| S1250PK-0 | 1.25/31.75 | Black | .75 to 1.75/19.05 to 44.45 | 250 ft./76.20m | 1 |
| S1500PT-0 | 1.50/38.10 | Black | 1.00 to 2.50/25.40 to 63.50 | 200 ft./60.96m | 1 |
| S1750PT-0 | 1.75/44.45 | Black | 1.25 to 2.75/31.75 to 59.85 | 200 ft./60.96m | 1 |
| S2000PT-0 | 2.00/50.80 | Black | 1.50 to 3.50/38.10 to 88.90 | 200 ft./60.96m | 1 |
| S2500PT-0 | 2.50/63.50 | Black | 1.75 to 4.50/44.45 to 114.30 | 200 ft./60.96m | 1 |

***Note:*** *Order by reel, not per foot.*



## The right tool for the job!

### Sleeving End Cutter/Sealer Tool

It's recommended that the sleeving be cut with a hot knife for a straight cut and to seal the ends, which prevents fraying.

| STD. PKG. CAT. NO. | DESCRIPTION | STD PKG. |
|---|---|---|
| WTBM | Benchmount End Cutter/Sealer Tool, 110 VAC | 1 |



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Catamount®

# Catamount® General-Purpose Ties & Accessories

**In this section...**




**Catamount® General-Purpose Ties & Accessories**

Twist Tail® Cable Ties ..... C-62

General-Purpose Cable Ties and Accessories..... C-63–C-66


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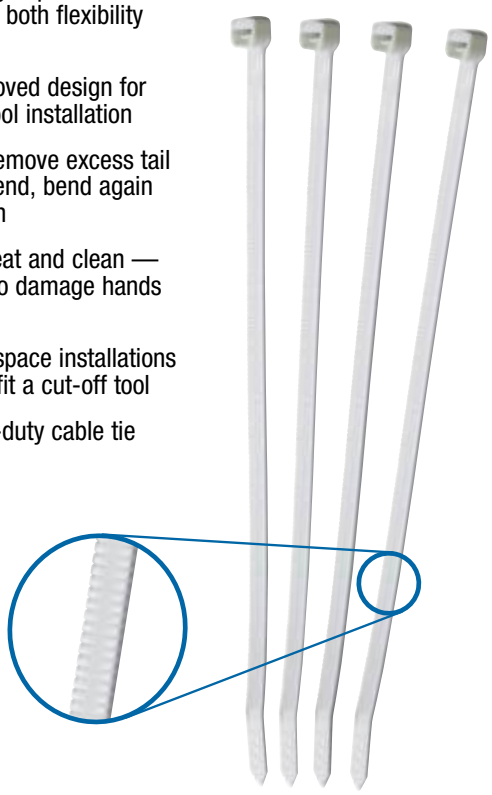
## Twist Tail® Cable Ties

# Tail twists right off — no tools needed!

# Catamount® Twist Tail® Cable Tie



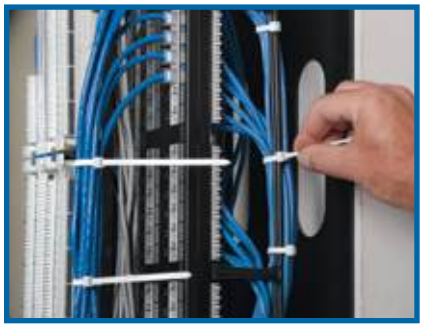

- Redesigned using impact-modified nylon to increase both flexibility and wearability
- Unique and improved design for quick, easy no-tool installation
- After installing, remove excess tail with a simple "bend, bend again and twist" motion
- Tail breaks off neat and clean — no sharp edges to damage hands or cables
- Ideal for limited-space installations where you can't fit a cut-off tool
- Suitable for light-duty cable tie applications





For fast and easy installation, you can't beat the Catamount® Twist Tail® Cable Tie. After you secure the Twist Tail® tie around a bundle of cables, simply grasp the excess tail between your thumb and forefinger, bend, bend in the other direction and twist. The tail breaks right off, leaving no sharp edges to scratch your hands or your cables. The Twist Tail® cable tie makes tail removal easy with its unique design but still provides a full 30 lbs. minimum loop tensile strength — perfect for any general-purpose cable tie application.

| CAT. NO. | LENGTH (IN.) | WIDTH (IN.) | MIN. TENSILE STRENGTH (LBS.) | COLOR | STD. QTY. |
|---|---|---|---|---|---|
| TT-7-30-9-L | 7 | .187 | 30 | Natural | 50 |
| TT-7-30-0-L | 7 | .187 | 30 | UV Black | 50 |
| TT-11-30-9-L | 11 | .187 | 30 | Natural | 50 |
| TT-11-30-0-L | 11 | .187 | 30 | UV Black | 50 |
| TT-14-30-9-L | 14 | .187 | 30 | Natural | 50 |
| TT-14-30-0-L | 14 | .187 | 30 | UV Black | 50 |









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# General-Purpose Cable Ties and Accessories

Catamount® Ties fit the needs of general-purpose fastening. Installers quickly discover that Catamount® products offer durable and value-priced cable bundling for a variety of commercial and residential construction applications. Catamount® Ties are offered in a wide range of sizes, styles and colors and meet the requirements for most fastening projects. Catamount® Cable Ties are UL Recognized per File #E-4905.



## Miniature — Series 18

| CAT. NO. | LENGTH (IN.) | WIDTH (IN.) | MAX. BUNDLE DIA. (IN.) | COLOR | STD. QTY. |
|---|---|---|---|---|---|
| L-4-18-9-C | 4.0 | .100 | ⅝ | Natural | 100 |
| L-4-18-9-M | 4.0 | .100 | ⅝ | Natural | 1,000 |
| L-4-18-0-C | 4.0 | .100 | ⅝ | UV Black | 100 |
| L-4-18-0-M | 4.0 | .100 | ⅝ | UV Black | 1,000 |
| L-6-18-9-M | 6.4 | .100 | 1½ | Natural | 1,000 |
| L-8-18-9-C | 8.0 | .100 | 2 | Natural | 100 |
| L-8-18-9-M | 8.0 | .100 | 2 | Natural | 1,000 |
| L-8-18-0-C | 8.0 | .100 | 2 | UV Black | 100 |
| L-8-18-0-M | 8.0 | .100 | 2 | UV Black | 1,000 |



## Intermediate — Series 30/40

| CAT. NO. | LENGTH (IN.) | WIDTH (IN.) | MAX. BUNDLE DIA. (IN.) | COLOR | STD. QTY. |
|---|---|---|---|---|---|
| L-5-30-9-C | 5.6 | .130 | 1¼ | Natural | 100 |
| L-5-30-9-M | 5.6 | .130 | 1¼ | Natural | 1,000 |
| L-5-30-0-C | 5.6 | .130 | 1¼ | UV Black | 100 |
| L-5-30-0-M | 5.6 | .130 | 1¼ | UV Black | 1,000 |
| L-8-40-9-C | 8.5 | .140 | 2 | Natural | 100 |
| L-8-40-9-M | 8.5 | .140 | 2 | Natural | 1,000 |
| L-8-40-0-C | 8.5 | .140 | 2 | UV Black | 100 |
| L-8-40-0-M | 8.5 | .140 | 2 | UV Black | 1,000 |
| L-11-40-9-C | 11.5 | .146 | 3 | Natural | 100 |
| L-11-40-9-M | 11.5 | .146 | 3 | Natural | 1,000 |
| L-11-40-0-C | 11.5 | .146 | 3 | UV Black | 100 |
| L-11-40-0-M | 11.5 | .146 | 3 | UV Black | 1,000 |
| L-14-40-9-C | 14.5 | .146 | 4 | Natural | 100 |
| L-14-40-9-M | 14.5 | .146 | 4 | Natural | 1,000 |
| L-14-40-0-C | 14.5 | .146 | 4 | UV Black | 100 |
| L-14-40-0-M | 14.5 | .146 | 4 | UV Black | 1,000 |



## Standard — Series 50

| CAT. NO. | LENGTH (IN.) | WIDTH (IN.) | MAX. BUNDLE DIA. (IN.) | COLOR | STD. QTY. |
|---|---|---|---|---|---|
| L-7-50-9-C | 7.5 | .187 | 13/4 | Natural | 100 |
| L-7-50-9-M | 7.5 | .187 | 13/4 | Natural | 1,000 |
| L-7-50-0-C | 7.5 | .187 | 13/4 | UV Black | 100 |
| L-7-50-0-M | 7.5 | .187 | 13/4 | UV Black | 1,000 |
| L-11-50-9-C | 11.1 | .187 | 3 | Natural | 100 |
| L-11-50-9-D | 11.1 | .187 | 3 | Natural | 500 |
| L-11-50-0-C | 11.1 | .187 | 3 | UV Black | 100 |
| L-11-50-0-D | 11.1 | .187 | 3 | UV Black | 500 |
| L-14-50-9-C | 14.1 | .187 | 4 | Natural | 100 |
| L-14-50-9-D | 14.1 | .187 | 4 | Natural | 500 |
| L-14-50-0-C | 14.1 | .187 | 4 | UV Black | 100 |
| L-14-50-0-D | 14.1 | .187 | 4 | UV Black | 500 |



## Heavy-Duty

| CAT. NO. | LENGTH (IN.) | WIDTH (IN.) | MAX. BUNDLE DIA. (IN.) | COLOR | STD. QTY. |
|---|---|---|---|---|---|
| *Series 120* | | | | | |
| L-8-120-0-C | 8.0 | .300 | 2 | UV Black | 100 |
| L-11-120-9-C | 11.1 | .300 | 3 | Natural | 100 |
| L-11-120-0-C | 11.1 | .300 | 3 | UV Black | 100 |
| L-14-120-9-C | 14.2 | .300 | 4 | Natural | 100 |
| L-14-120-0-C | 14.2 | .300 | 4 | UV Black | 100 |
| L-18-120-9-L | 18.0 | .300 | 4⅞ | Natural | 50 |
| L-18-120-0-L | 18.0 | .300 | 4⅞ | UV Black | 50 |
| L-24-120-9-Q | 24.2 | .300 | 7 | Natural | 25 |
| L-24-120-9-L | 24.2 | .300 | 7 | Natural | 50 |
| L-24-120-0-Q | 24.2 | .300 | 7 | UV Black | 25 |
| L-24-120-0-L | 24.2 | .300 | 7 | UV Black | 50 |
| L-24-120-2-L | 24.2 | .300 | 7 | Red | 50 |
| L-28-120-9-L | 28.0 | .300 | 8 | Natural | 50 |
| L-28-120-0-L | 28.0 | .300 | 8 | UV Black | 50 |
| *Series 175* | | | | | |
| L-24-175-9-L | 24.0 | .345 | 7.2 | Natural | 50 |
| L-24-175-0-L | 24.0 | .345 | 7.2 | UV Black | 50 |
| L-36-175-9-L | 36.0 | .345 | 10¾ | Natural | 50 |
| L-36-175-0-L | 36.0 | .345 | 10¾ | UV Black | 50 |
| L-48-175-9-L | 48.0 | .345 | 15 | Natural | 50 |
| L-48-175-8-L | 48.0 | .345 | 15 | Gray | 50 |
| L-48-175-0-L | 48.0 | .345 | 15 | UV Black | 50 |
| *Series 250* | | | | | |
| L-28-250-0-L | 28.0 | .345 | 8 | UV Black | 50 |





For installation tools, see pp. C-46–C-48.

### Sample Catalog Order

Length | Style | Color

**L 4 18 R 9 C**

Tensile Strength | Quantity

*4" Length, 18-lb. Tensile Strength, Releasable Tie, Natural Color, 100-Pack Quantity*

**Color**

**0** – Black (UV Resistant)
**9** – Natural
**8** – Gray

**Pack Quantity**

**L** = 50
**D** = 500
**C** = 100
**M** = 1,000

**Style**

**R** = Releasable
**MH** = Mounting Head

# General-Purpose Cable Ties and Accessories

## Catamount® Cable Tie Assortment Packages

- Natural nylon or black weather-resistant nylon
- Reusable jar
- Easily merchandised
- Great value






| CAT. NO. | LENGTH (IN.) | WIDTH | MAX. BUNDLE (IN.) | TENSILE STRENGTH | MATERIAL | JAR QTY |
|---|---|---|---|---|---|---|
| **90650-I** | 4 | .100 | ⅝ | 18# | Natural Nylon | 300 |
| | 7.5 | .187 | 1¾ | 50# | | 300 |
| | 11.1 | .187 | 3 | 50# | | 50 |
| **90650-IUV** | 4 | .100 | ⅝ | 18# | Black Weather-Resistant Nylon | 300 |
| | 7.5 | .187 | 1¾ | 50# | | 300 |
| | 11.1 | .187 | 3 | 50# | | 50 |

## Mounting Head Ties



| CAT. NO. | LENGTH (IN.) | WIDTH (IN.) | MAX BUNDLE DIA. (IN.) | MIN. LOOP TENSILE TENSILE | MOUNTING HEAD SCREW SIZE | COLOR | STD. QTY. |
|---|---|---|---|---|---|---|---|
| **L-7-50MH-9-C** | 7.5 | .185 | 1¼ | 30 | No. 10 | Natural | 100 |
| **L-7-50MH-9-M** | 7.5 | .185 | 1¼ | 30 | No. 10 | Natural | 1,000 |
| **L-7-50MH-0-C** | 7.5 | .185 | 1¾ | 30 | No. 10 | UV Black | 100 |
| **L-7-50MH-0-M** | 7.5 | .185 | 1¾ | 30 | No. 10 | UV Black | 1,000 |



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## Cable Tie Mounting Bases

- ¾" and 1" mounts for use with 18# through 50# tensile cable ties
- Supplied on rubber-based adhesive
- Available in 6.6 natural nylon and 6.6 black weather-resistant nylon
- UL94V-2 flammability (clip)

***Note:*** *See product expiration date on package. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.*



| CAT. NO. | MOUNT METHOD | COLOR | PKG. QTY. |
|---|---|---|---|
| ***¾" x ¾" Sizes*** | | | |
| **MPNY-750-9-C** | Synthetic Rubber Adhesive | Natural | 100 |
| **MPNY-750-9-D** | Synthetic Rubber Adhesive | UV Black | 500 |
| ***1" x 1" Sizes*** | | | |
| **MPNY-1000-9-C** | Synthetic Rubber Adhesive | Natural | 100 |
| **MPNY-1000-0-C** | Synthetic Rubber Adhesive | UV Black | 100 |

*For use with 18–50 lb. Cable Ties*

*– Mounting Surface should be cleaned with alcohol based (IPA) cleaner before application*

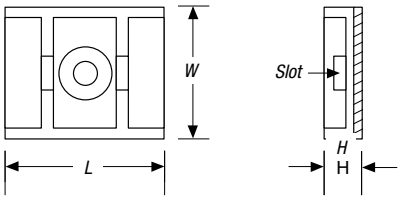
*– Allow 15 minutes setup for maximum performance*

# Accepts cable ties up to 50-lb. tensile strength!

## Adhesive Mounting Cradle

- Supplied on closed cell foam with synthetic rubber-based adhesive
- Use #6 self-tapping screw for added strength if desired






| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MATERIAL | H HEIGHT IN./MM | L LENGTH IN./MM | W WIDTH IN./MM | SLOT HEIGHT IN./MM | SLOT WIDTH IN./MM | MOUNT METHOD | STD. PKG. QTY. | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **MCNY-1250-9-C** | **MCNY-1250-9-D** | Natural Nylon 6.6 | .285/7.24 | 1.250/31.75 | 1.000/25.4 | .090/2.29 | .300/7.62 | SRA Adhesive* | 100 | 500 |

**Synthetic Rubber Adhesive*

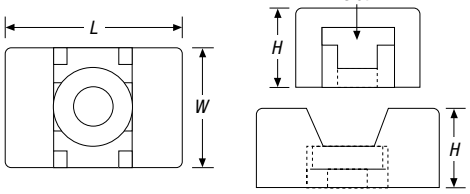
***Note:*** *See product expiration date on package. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.*

# General-Purpose Cable Ties and Accessories

## Two-Way Screw Mount

- SMNY-000 accepts 18 lb. (80N) tensile strength cable ties (miniature)
- SMNY-001 accepts up to 50 lb. (222N) tensile strength cable ties






| BULK PKG. CAT. NO. | MATERIAL | H HEIGHT IN./MM | L LENGTH IN./MM | W WIDTH IN./MM | SLOT HEIGHT IN./MM | SLOT WIDTH IN./MM | MOUNT METHOD | BULK PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| SMNY-000-9-D | Natural Nylon 6.6 | .27/6.86 | .57/14.48 | .34/8.64 | .07/1.78 | .12/3.10 | #4 Screw | 500 |
| SMNY-001-9-D | Natural Nylon 6.6 | .25/7.11 | .60/15.24 | .38/9.77 | .06/1.52 | .20/5.68 | #6 or #8 screw | 500 |

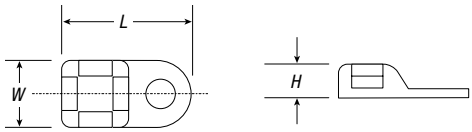
*SMNY series for use in temperatures ranging from -40° F to 221° F (-40° C to 105° C).*

## Four-way screw mount for cable ties up to 50-lb. (222N) tensile strength!

## Four-Way Mount

- Mount with #6 or #8 screws
- Available in 6.6 natural nylon






| BULK PKG. CAT NO. | H IN./MM | L IN./MM | W IN./MM | SLOT W IN./MM | MOUNT SCREW | BULK PKG. QTY. |
|---|---|---|---|---|---|---|
| SMNY-220-9-D | .23/5.84 | .95/25.13 | .50/12.70 | .22/5.59 | #6, #8 | 500 |

- *Natural nylon color.*

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

## STRONG — up to 50-lb. tensile strength!

## Push Mounts

### PMNY-185

- Versatile push mount for cable ties to 50-lb. tensile strength
- For use in .187"/.192" mounting hole for panel thickness .030" to .080"

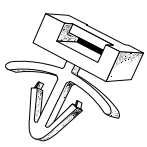
### PMNY-245

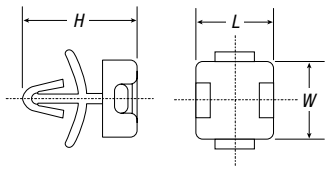
- Accepts cable ties to 50-lb. tensile (miniature through standard)
- For use in .250" mounting hole for maximum panel thickness of .062"

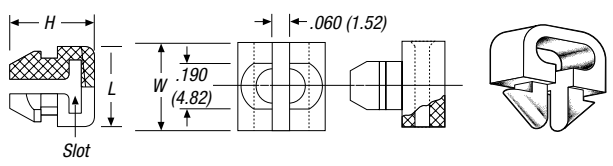
| BULK PKG. CAT. NO. | MATERIAL | H HEIGHT IN./MM | L LENGTH IN./MM | W WIDTH IN./MM | SLOT HEIGHT IN./MM | BULK PKG. QTY. |
|---|---|---|---|---|---|---|
| PMNY-185-9-D | Nylon | .64/16.26 | .43/10.92 | .07/1.65 | .07/1.65 | 500 |
| PMNY-254-9-C | Nylon | .36/9.02 | .32/8.13 | .05/1.27 | .22/5.59 | 100 |
| PMNY-245-9-D | Nylon | .36/9.02 | .32/8.13 | .05/1.27 | .22/5.59 | 500 |

- *Natural nylon color.*

*For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).*

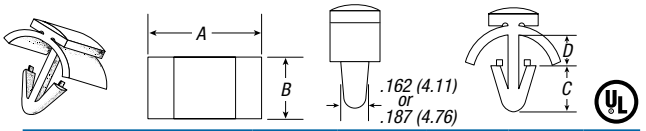





## Snap Mounts

- For panel thicknesses from .060" to .150" to hold separate pieces of material together
- For MSNY-166-0-M used with W4 or N4 Series Cable Clamps, allowable panel thickness is .030" to .050"
- For MSNY-187-0-M used with W6 or N6 Series Cable Clamps, allowable panel thickness is .030" to .050"




| CAT. NO. | MATERIAL | A IN./MM | B IN./MM | C IN./MM | D IN./MM | BULK PKG QTY. |
|---|---|---|---|---|---|---|
| MSNY-166-0-M | UV Black Nylon | .49/12.45 | .31/7.87 | .28/7.11 | .18/4.57 | 1,000 |
| MSNY-187-0-M | UV Black Nylon | .625/15.87 | .343/8.73 | .281/7.14 | .210/5.33 | 1,000 |



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# Wiring Duct & Wiring Trough

**In this section...**



## Wiring Duct & Wiring Trough


Ty-Duct® Wiring Duct ..... C-68–C-77
Wiring Duct Tools and Accessories ..... C-78–C-81
Wiring Duct Technical Information ..... C-82–C-86
Carlon® Wiring Trough and Accessories ..... C-87–C-89
Wiring Trough Technical Information..... C-90–C-92


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## Ty-Duct® Wiring Duct

# Ty-Duct® — The versatile configurations you need for routing and concealing wiring!



Thomas & Betts' innovative new Ty-Duct products offer a total solution for routing and concealing wiring in control panels. Many different sizes are available to accommodate anything from the smallest wallmount panel to the larger integrated systems!

Here are some of the impressive features incorporated into our wiring duct solutions.

## Ty-Duct® Features



- Available in Wide and Narrow Slot versions to meet your capacity and flexibility needs
- Widths from .75" to 6" and depths from 1" to 5"
- Complete selection of accessories and tools for installation
- Lead-free construction
- Lightweight halogen-free material available for Wide Slot Wiring Duct



## Ty-Duct® Certifications

- UL® Recognized Continuous-Use Temperature — 122° F (50° C) for Standard PVC Material 203° F (95° C) for Halogen-Free Material
- UL® 94 Flammability — Rating of V-0 for Standard PVC Material Rating of V-1 for Halogen-Free Material
- Conforms with NFPA 79-2011 Section 13.3.1 Requirement for Flame-Retardant Material
- CE compliant for European shipping
- CSA Certified
- RoHS Certified

### Available in 2 Colors

Gray White



Thomas&Betts

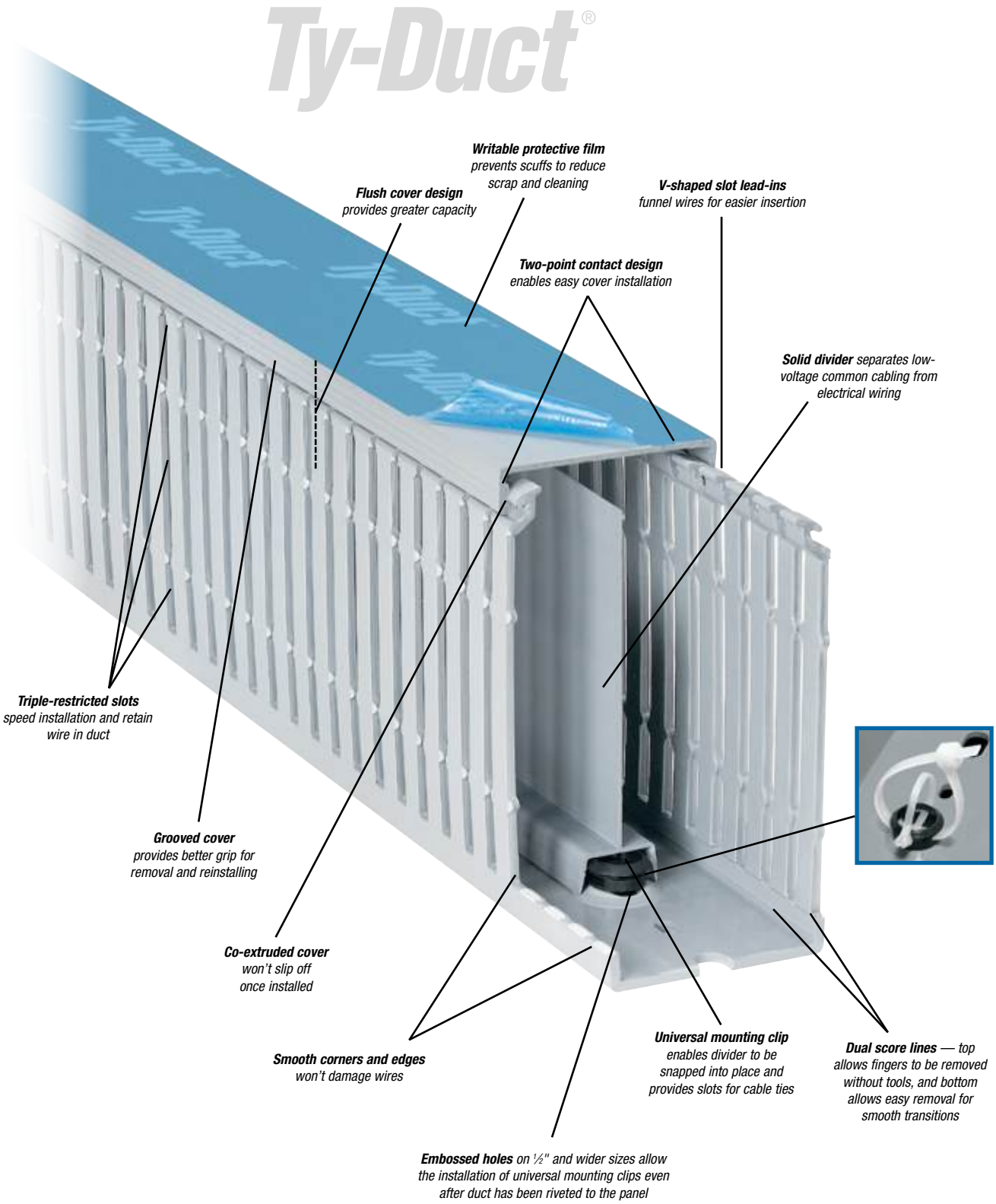
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# Ty-Duct® Wiring Duct

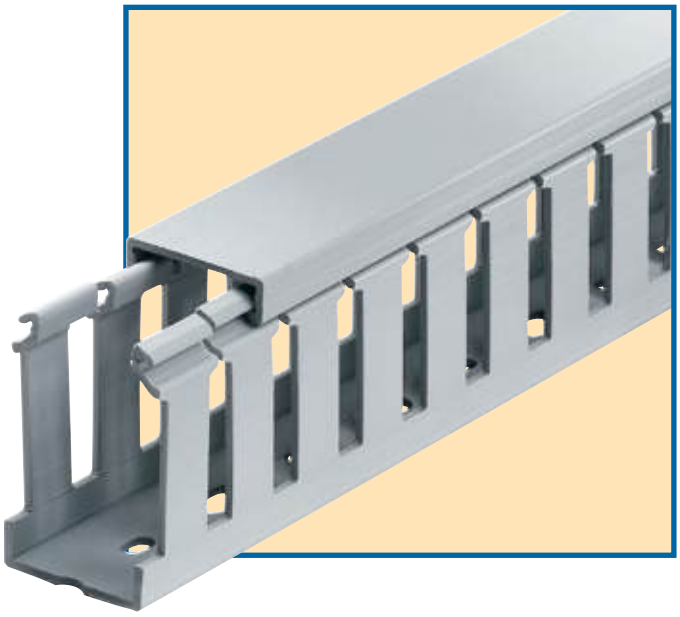




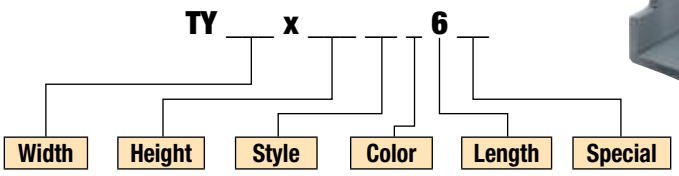
## Ty-Duct® Wiring Duct

# Ordering the Ty-Duct® products you need is easy!

## Select the appropriate Ty-Duct® solutions for your application.



### For Ty-Duct® Wiring Duct:

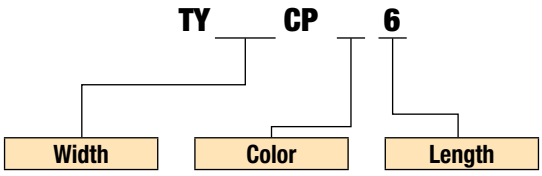



[ _ ] = space for color identifier:

G = Gray

W = White

### For Ty-Duct® Covers:




2 To order duct without mounting holes, add suffix NM to catalog number. **Example:** TY75X1WPG6NM is a .75" x 1" wide slot gray duct with no mounting holes.

**Examples**

| CAT. NO. | DESCRIPTION | SIZE (W X H) IN. | SIZE (W X H) MM | COVER CAT. NO. | DUCT STD. CTN. QTY. | COVER STD. CTN. QTY. | LENGTH (FT.) |
|---|---|---|---|---|---|---|---|
| TY75X1WP[ G ]6NM | .75 x 1 Wide Slot Duct | .94 x 1.09 | 23.9 x 27.7 | | 120 | | |
| TY75X15WP[W ]6 | .75 x 1.5 Wide Slot Duct | .94 x 1.56 | 23.9 x 39.6 | TY75CP[ _ ]6 | 120 | 120 | 6 |
| TY75X2WP[ W ]6 | .75 x 2 Wide Slot Duct | .94 x 2.07 | 23.9 x 52.6 | | 120 | | |

*Nominal Width x Nominal Height*

*Standard Carton Quantity*

*WP = Wide Slot*
*NP = Narrow Slot*

1 *Catalog Number must be completed by adding suffix **G** for Gray, **W** for White.*
***Example:** TY75x2WPW6 is a .75" x 2" wide slot white duct. Cover color must be specified also.*

*Standard lengths are 6 feet.*

***Note:** See product expiration date on packages with adhesive. Periodically check product for adhesion and replace as needed. Product is for wire management only and is not intended for use as a primary support of wire, cable, etc.*



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# Order Ty-Duct® Accessories

## For Ty-Duct® Dividers:

*Catalog Number must be completed by adding suffix SP for Solid or WP for Wide Slot.*
***Example:*** *TY2DSPG6 is a 2" high solid wall gray divider.*

| CAT. NO. | DESCRIPTION | LENGTH (FT.) | STD. CTN. QTY |
|---|---|---|---|
| TY2D[ SP ][ G ]6 | 2" High Wall Divider | 6 | 120 |

*Catalog Number must be completed by adding suffix G for Gray, W for White.*



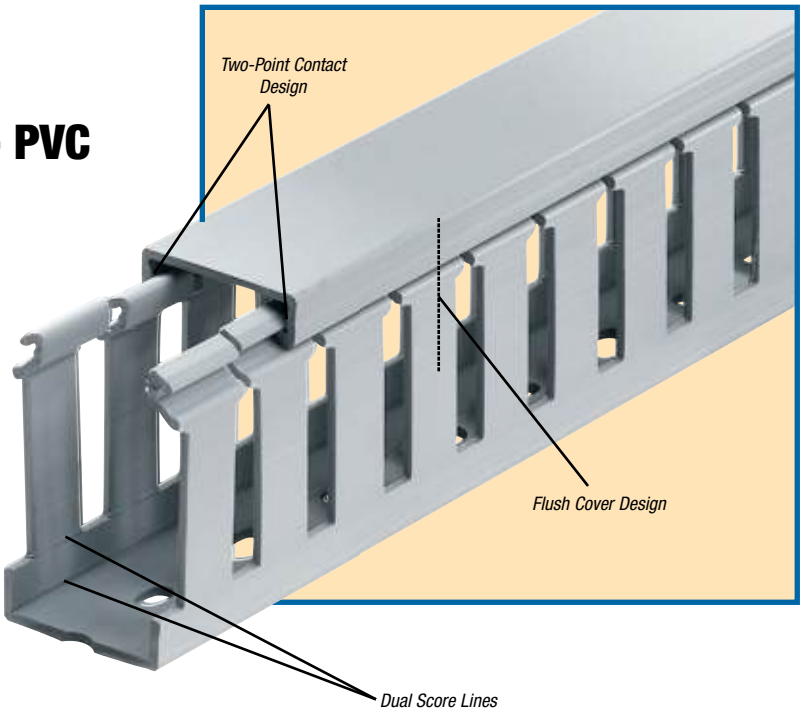


## Ty-Duct® Wiring Duct

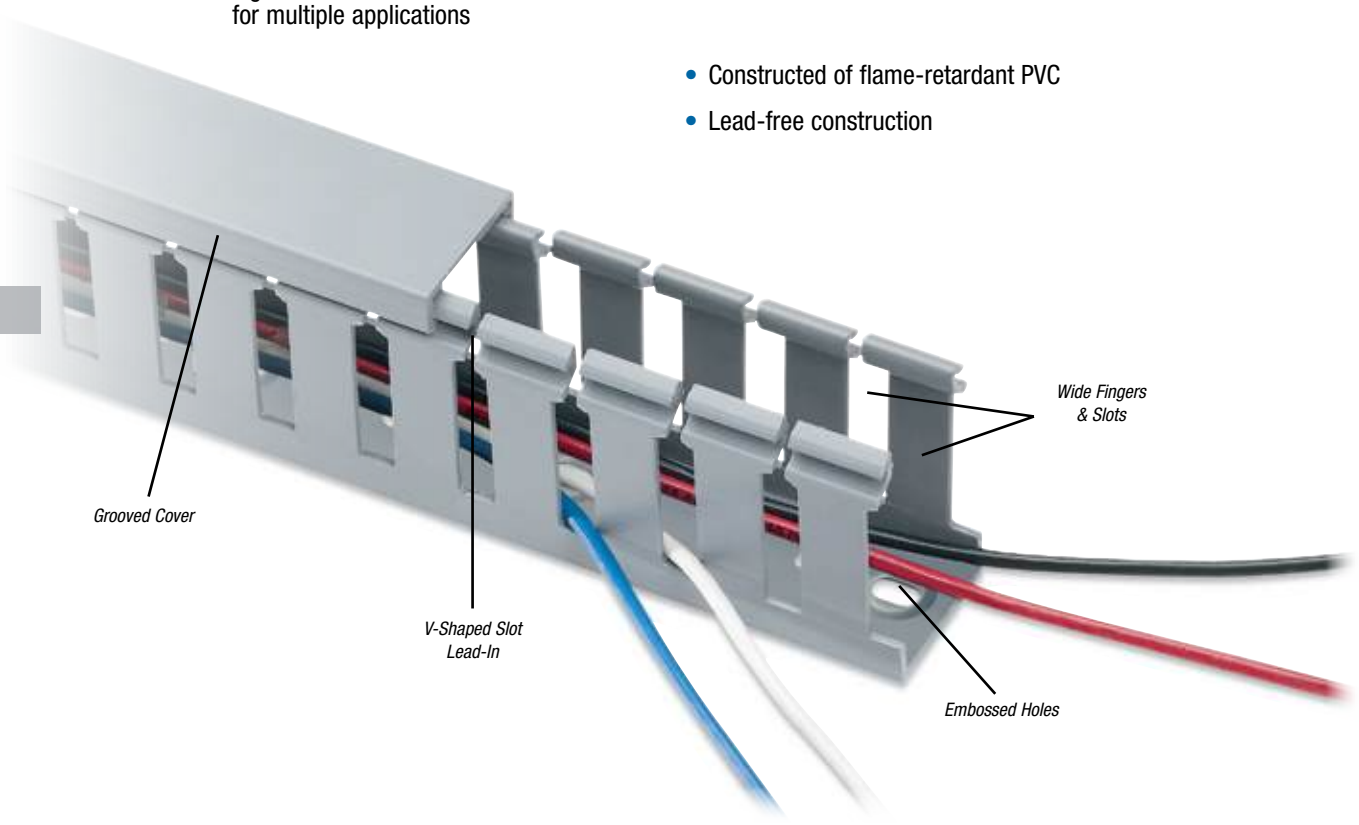
# Greater sidewall rigidity with increased versatility!

## Wide Slot Wiring Duct — PVC

- Wide fingers and slots increase rigidity and enable insertion of bundles
- Non-slip cover does not slide easily and resists vibration
- Rounded edges keep hands and wires free of abrasion
- V-shaped slot lead-in enables easier and faster wire installation
- Dual score lines are designed to yield clean breakoffs at the base of the slot and the duct
- Restricted slot design makes sure that wires are held with or without the cover inserted
- Cover attaches flush with sidewall for finished look and increased wire capacity
- Versatile North American and DIN Standard mounting holes enables same duct for multiple applications




- Constructed of flame-retardant PVC
- Lead-free construction





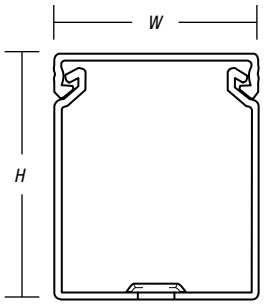

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Fax: 901.252.1354

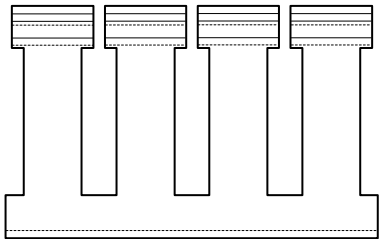
**Technical Services**
Tel: 888.862.3289

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# Ty-Duct® Wiring Duct




*Front View with Cover*



*Side View without Cover*

**For a complete listing of Wide Slot mounting and dimensional details, see page C-84.**

| CAT. NO.* | DESCRIPTION | SIZE (W X H) IN. | SIZE (W X H) MM | COVER CAT. NO.* | DUCT STD. CTN. QTY. | COVER STD. CTN. QTY. | LENGTH (FT.) |
|---|---|---|---|---|---|---|---|
| **TY75X15WP[ _ ]6** | .75" x 1.5" | .94 x 1.70 | 23.9 x 43.2 | **TY75CP[ _ ]6** | 120 | 120 | 6 |
| **TY75X2WP[ _ ]6** | .75" x 2" | .94 x 2.19 | 23.9 x 55.6 | | 120 | | |
| **TY1X1WP[ _ ]6** | 1" x 1" | 1.25 x 1.24 | 31.8 x 31.5 | | 120 | | |
| **TY1X15WP[ _ ]6** | 1" x 1.5" | 1.25 x 1.70 | 31.8 x 43.2 | | 120 | | |
| **TY1X2WP[ _ ]6** | 1" x 2" | 1.25 x 2.19 | 31.8 x 55.6 | **TY1CP[ _ ]6** | 120 | 120 | 6 |
| **TY1X3WP[ _ ]6** | 1" x 3" | 1.25 x 3.14 | 31.8 x 79.8 | | 120 | | |
| **TY1X4WP[ _ ]6** | 1" x 4" | 1.25 x 4.46 | 31.8 x 113.3 | | 60 | | |
| **TY15X15WP[ _ ]6** | 1.5" x 1.5" | 1.75 x 1.70 | 44.5 x 43.2 | | 120 | | |
| **TY15X2WP[ _ ]6** | 1.5" x 2" | 1.75 x 2.19 | 44.5 x 55.6 | **TY15CP[ _ ]6** | 120 | 120 | 6 |
| **TY15X3WP[ _ ]6** | 1.5" x 3" | 1.75 x 3.14 | 44.5 x 79.8 | | 120 | | |
| **TY15X4WP[ _ ]6** | 1.5" x 4" | 1.75 x 4.46 | 44.5 x 113.3 | | 60 | | |
| **TY2X1WP[ _ ]6** | 2" x 1" | 2.25 x 1.24 | 57.2 x 31.5 | | 120 | | |
| **TY2X15WP[ _ ]6** | 2" x 1.5" | 2.25 x 1.70 | 57.2 x 43.2 | | 120 | | |
| **TY2X2WP[ _ ]6** | 2" x 2" | 2.25 x 2.19 | 57.2 x 55.6 | **TY2CP[ _ ]6** | 120 | 120 | 6 |
| **TY2X3WP[ _ ]6** | 2" x 3" | 2.25 x 3.14 | 57.2 x 79.8 | | 60 | | |
| **TY2X4WP[ _ ]6** | 2" x 4" | 2.25 x 4.46 | 57.2 x 113.3 | | 60 | | |
| **TY2X5WP[ _ ]6** | 2" x 5" | 2.25 x 5.15 | 57.2 x 130.8 | | 60 | | |
| **TY25X2WP[ _ ]6** | 2.5" x 2" | 2.75 x 2.19 | 69.9 x 55.6 | | 120 | | |
| **TY25X3WP[ _ ]6** | 2.5" x 3" | 2.75 x 3.14 | 69.9 x 79.8 | **TY25CP[ _ ]6** | 60 | 120 | 6 |
| **TY25X4WP[ _ ]6** | 2.5" x 4" | 2.75 x 4.46 | 69.9 x 113.3 | | 60 | | |
| **TY3X1WP[ _ ]6** | 3" x 1" | 3.25 x 1.24 | 82.6 x 31.5 | | 120 | | |
| **TY3X2WP[ _ ]6** | 3" x 2" | 3.25 x 2.19 | 82.6 x 55.6 | | 60 | | |
| **TY3X3WP[ _ ]6** | 3" x 3" | 3.25 x 3.14 | 82.6 x 79.8 | **TY3CP[ _ ]6** | 60 | 120 | 6 |
| **TY3X4WP[ _ ]6** | 3" x 4" | 3.25 x 4.46 | 82.6 x 113.3 | | 60 | | |
| **TY3X5WP[ _ ]6** | 3" x 5" | 3.25 x 5.15 | 82.6 x 130.8 | | 60 | | |
| **TY4X3WP[ _ ]6** | 4" x 3" | 4.25 x 3.14 | 108.0 x 79.8 | **TY4CP[ _ ]6** | 60 | 120 | 6 |
| **TY4X4WP[ _ ]6** | 4" x 4" | 4.25 x 4.46 | 108.0 x 113.3 | | 30 | | |
| **TY4X5WP[ _ ]6** | 4" x 5" | 4.25 x 5.15 | 108.0 x 130.8 | | 30 | | |
| **TY6X4WP[ _ ]6** | 6" x 4" | 6.25 x 4.46 | 158.8 x 113.3 | **TY6CP[ _ ]6** | 30 | 60 | 6 |

**[ _ ] = space for color identifier:**
**G** = Gray
**W** = White

* *Catalog Number must be completed by adding suffix G for Gray, W for White.*
***Example:*** *TY75X1WPG6 is a .75" x 1" wide slot gray duct.*

*To order duct without mounting holes, add suffix NM to catalog number.*
***Example:*** *TY75X1WPG6NM is a .75" x 1" wide slot gray duct with no mounting holes.*

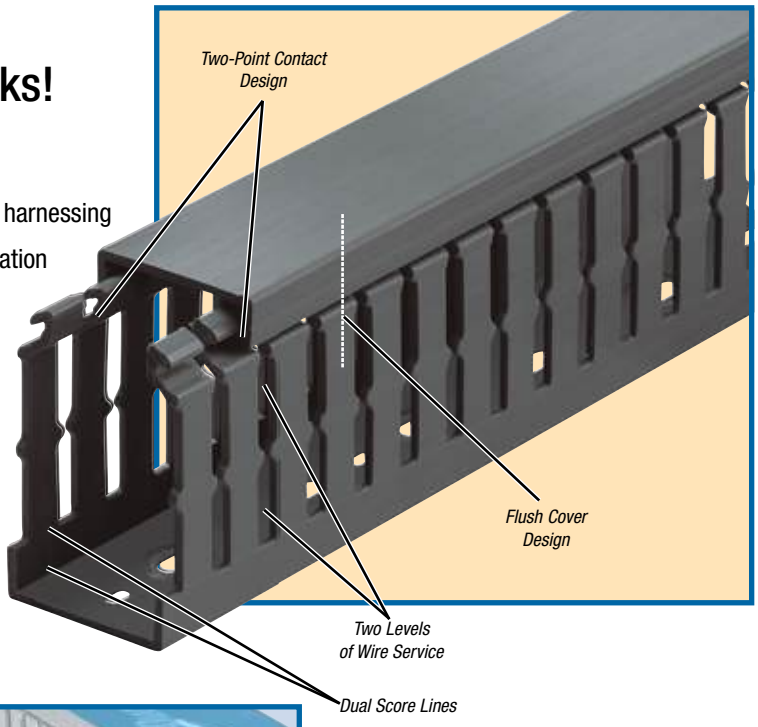
*PVC duct is UL® Recognized, CSA Certified and CE Compliant.*

## Ty-Duct® Wiring Duct

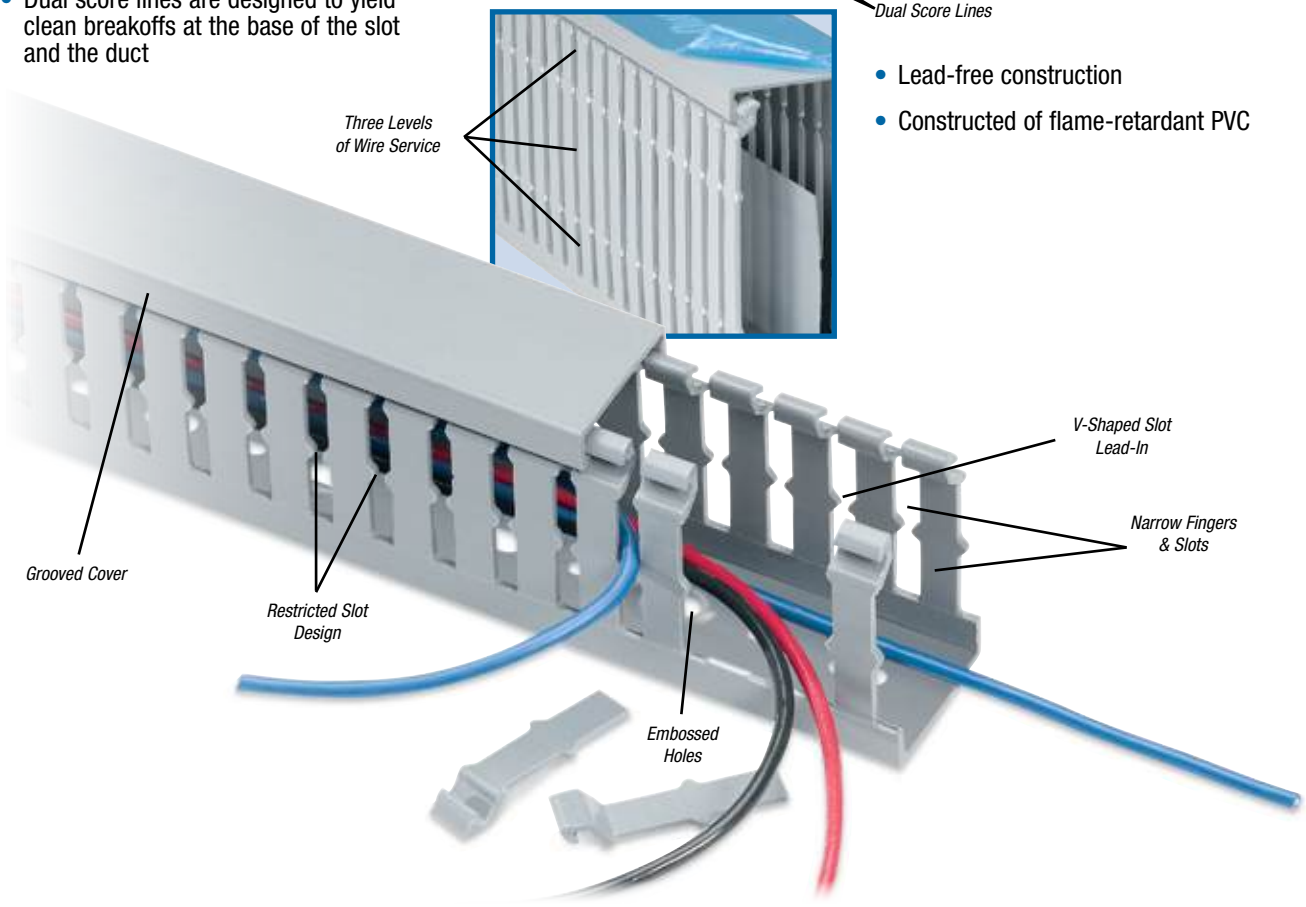
# Designed to fit the spacing of high-density terminal blocks!

## Narrow Slot Wiring Duct

- Smaller, higher number of fingers for more concise harnessing
- Non-slip cover does not slide easily and resists vibration
- Rounded edges keep hands and wires free of abrasion
- V-shaped slot lead-in enables easier and faster wire installation
- Restricted slot design makes sure that wires are held with or without the cover inserted
- Cover attaches flush with sidewall for finished look and increased wire capacity
- Versatile North American and DIN Standard mounting holes enable same duct for multiple applications
- Dual score lines are designed to yield clean breakoffs at the base of the slot and the duct




- Lead-free construction
- Constructed of flame-retardant PVC





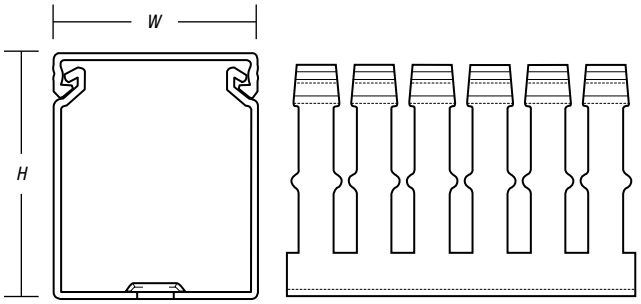

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# Ty-Duct® Wiring Duct




*Front View with Cover* *Side View without Cover*

For a complete listing of Narrow Slot mounting and dimensional details, see page C-85.

| CAT. NO.* | DESCRIPTION | SIZE (W X H) IN. | SIZE (W X H) MM | COVER CAT. NO.* | DUCT STD. CTN. QTY. | COVER STD. CTN. QTY. | LENGTH (FT.) |
|---|---|---|---|---|---|---|---|
| **TY75X15NP[ _ ]6** | .75" x 1.5" | .94 x 1.70 | 23.9 x 43.2 | **TY75CP[ _ ]6** | 120 | 120 | 6 |
| **TY1X1NP[ _ ]6** | 1" x 1" | 1.25 x 1.24 | 31.8 x 31.5 | | 120 | | |
| **TY1X15NP[ _ ]6** | 1" x 1.5" | 1.25 x 1.70 | 31.8 x 43.2 | | 120 | | |
| **TY1X2NP[ _ ]6** | 1" x 2" | 1.25 x 2.19 | 31.8 x 55.6 | **TY1CP[ _ ]6** | 120 | 120 | 6 |
| **TY1X3NP[ _ ]6** | 1" x 3" | 1.25 x 3.14 | 31.8 x 79.8 | | 120 | | |
| **TY1X4NP[ _ ]6** | 1" x 4" | 1.25 x 4.46 | 31.8 x 113.3 | | 60 | | |
| **TY15X1NP[ _ ]6** | 1.5" x 1" | 1.75 x 1.24 | 44.5 x 31.5 | | 120 | | |
| **TY15X15NP[ _ ]6** | 1.5" x 1.5" | 1.75 x 1.70 | 44.5 x 43.2 | | 120 | | |
| **TY15X2NP[ _ ]6** | 1.5" x 2" | 1.75 x 2.19 | 44.5 x 55.6 | **TY15CP[ _ ]6** | 120 | 120 | 6 |
| **TY15X3NP[ _ ]6** | 1.5" x 3" | 1.75 x 3.14 | 44.5 x 79.8 | | 120 | | |
| **TY15X4NP[ _ ]6** | 1.5" x 4" | 1.75 x 4.46 | 44.5 x 113.3 | | 60 | | |
| **TY2X1NP[ _ ]6** | 2" x 1" | 2.25 x 1.24 | 57.2 x 31.5 | | 120 | | |
| **TY2X15NP[ _ ]6** | 2" x 1.5" | 2.25 x 1.70 | 57.2 x 43.2 | | 120 | | |
| **TY2X2NP[ _ ]6** | 2" x 2" | 2.25 x 2.19 | 57.2 x 55.6 | **TY2CP[ _ ]6** | 120 | 120 | 6 |
| **TY2X3NP[ _ ]6** | 2" x 3" | 2.25 x 3.14 | 57.2 x 79.8 | | 60 | | |
| **TY2X4NP[ _ ]6** | 2" x 4" | 2.25 x 4.46 | 57.2 x 113.3 | | 60 | | |
| **TY2X5NP[ _ ]6** | 2" x 5" | 2.25 x 5.15 | 57.2 x 130.8 | | 60 | | |
| **TY25X2NP[ _ ]6** | 2.5" x 2" | 2.75 x 2.19 | 69.9 x 55.6 | | 120 | | |
| **TY25X3NP[ _ ]6** | 2.5" x 3" | 2.75 x 3.14 | 69.9 x 79.8 | **TY25CP[ _ ]6** | 60 | 120 | 6 |
| **TY25X4NP[ _ ]6** | 2.5" x 4" | 2.75 x 4.46 | 69.9 x 113.3 | | 60 | | |
| **TY3X1NP[ _ ]6** | 3" x 1" | 3.25 x 1.24 | 82.6 x 31.5 | | 120 | | |
| **TY3X2NP[ _ ]6** | 3" x 2" | 3.25 x 2.19 | 82.6 x 55.6 | | 60 | | |
| **TY3X3NP[ _ ]6** | 3" x 3" | 3.25 x 3.14 | 82.6 x 79.8 | **TY3CP[ _ ]6** | 60 | 120 | 6 |
| **TY3X4NP[ _ ]6** | 3" x 4" | 3.25 x 4.46 | 82.6 x 113.3 | | 60 | | |
| **TY3X5NP[ _ ]6** | 3" x 5" | 3.25 x 5.15 | 82.6 x 130.8 | | 60 | | |
| **TY4X2NP[ _ ]6** | 4" x 2" | 4.25 x 2.19 | 108.0 x 55.6 | | 60 | | |
| **TY4X3NP[ _ ]6** | 4" x 3" | 4.25 x 3.14 | 108.0 x 79.8 | **TY4CP[ _ ]6** | 60 | 120 | 6 |
| **TY4X4NP[ _ ]6** | 4" x 4" | 4.25 x 4.46 | 108.0 x 113.3 | | 30 | | |
| **TY4X5NP[ _ ]6** | 4" x 5" | 4.25 x 5.15 | 108.0 x 130.8 | | 30 | | |

**[ _ ] = space for color identifier:**
**G** = Gray
**W** = White

** Catalog Number must be completed by adding suffix G for Gray, W for White.*
***Example:*** *TY75X15NPB6 is a .75" x 1.5" narrow slot black duct.*

*To order duct without mounting holes, add suffix NM to catalog number.*
***Example:*** *TY75X15NPB6NM is a .75" x 1.5" narrow slot black duct with no mounting holes.*

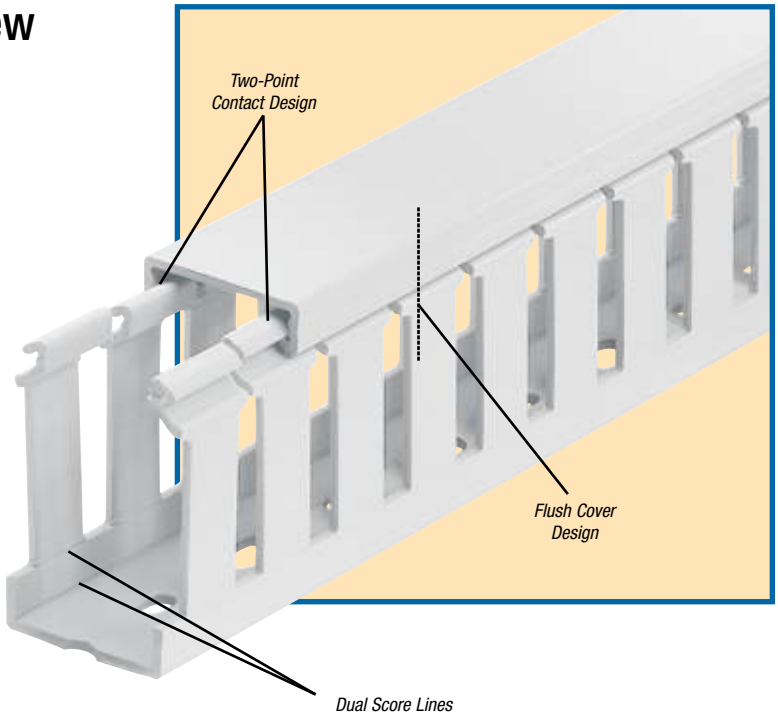
*PVC duct is UL Recognized, CSA Certified and CE Compliant.*

## Ty-Duct® Wiring Duct

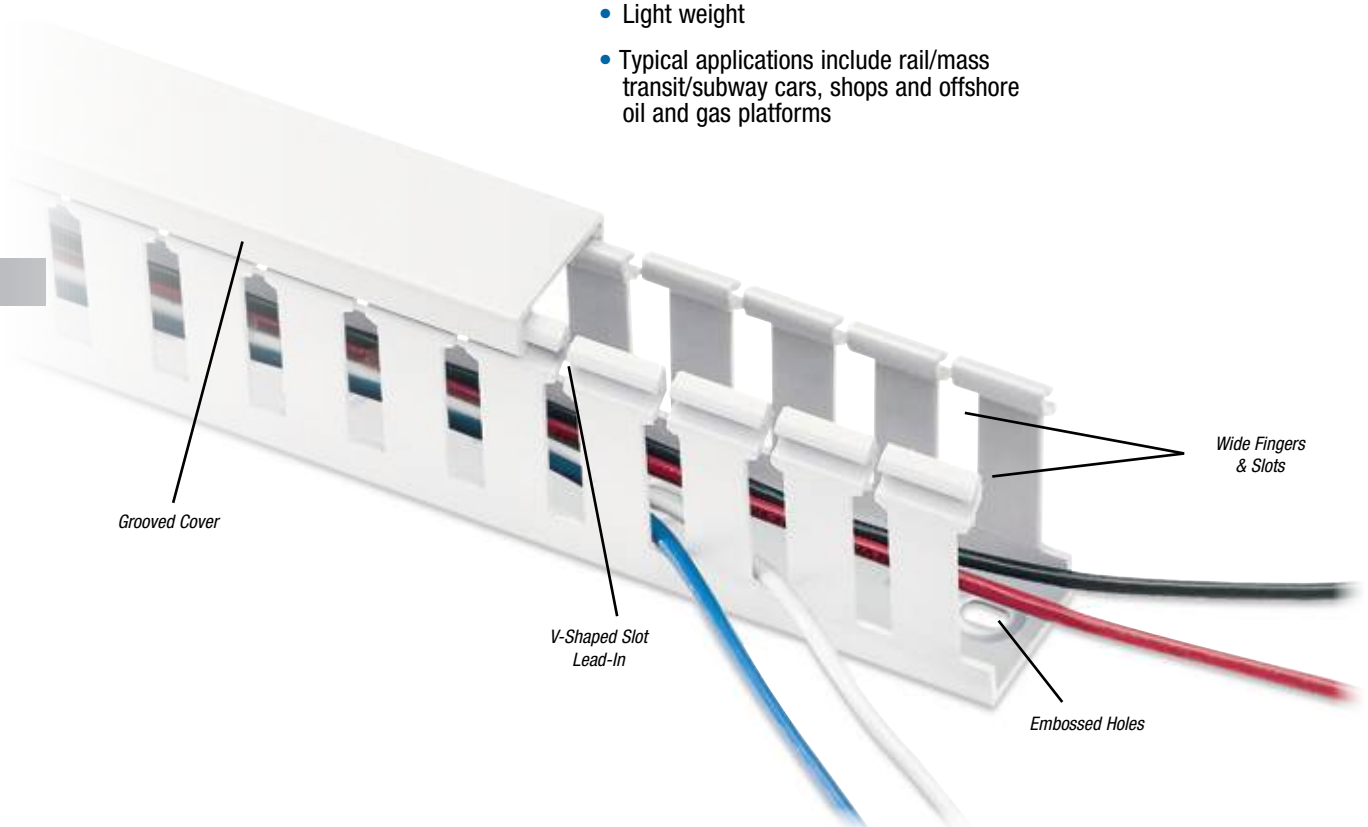
# Perfect for passenger or crew areas where smoke toxicity is a concern!

## Halogen-Free Wide Slot Wiring Duct

- Halogen-free construction — RoHS Compliant
- Higher temperature rating than standard PVC material (203° F/95° C)
- UL94V-1 flammability rating
- Wide fingers and slots increase rigidity and enable for insertion of bundles
- Non-slip cover does not slide easily and resists vibration
- Dual score lines are designed to yield clean breakoffs at the base of the slot and the duct
- V-shaped slot lead-in enables easier and faster wire installation




- Light weight
- Typical applications include rail/mass transit/subway cars, shops and offshore oil and gas platforms





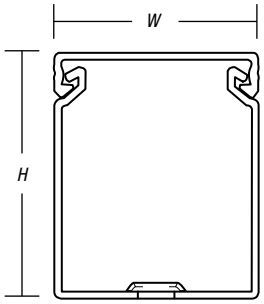

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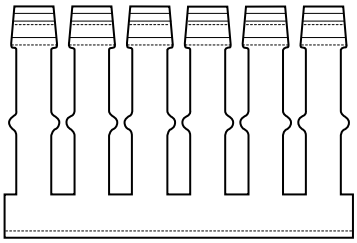
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# Ty-Duct® Wiring Duct




*Front View with Cover*



*Side View without Cover*

For a complete listing of Solid Wall mounting and dimensional details, see **page C-84.**

| CAT. NO. | DESCRIPTION | SIZE (W X H) IN. | SIZE (W X H) MM | COVER CAT. NO. | DUCT STD. CTN. QTY. | COVER STD. CTN. QTY. | LENGTH (FT.) |
|---|---|---|---|---|---|---|---|
| **TY1X1WHW6** | 1" x 1" | 1.25 x 1.24 | 31.8 x 31.5 | | 120 | | |
| **TY1X15WHW6** | 1" x 1.5" | 1.25 x 1.70 | 31.8 x 43.2 | | 120 | | |
| **TY1X2WHW6** | 1" x 2" | 1.25 x 2.19 | 31.8 x 55.6 | **TY1CHW6** | 120 | 120 | 6 |
| **TY1X3WHW6** | 1" x 3" | 1.25 x 3.14 | 31.8 x 79.8 | | 120 | | |
| **TY1X4WHW6** | 1" x 4" | 1.25 x 4.46 | 31.8 x 113.3 | | 60 | | |
| **TY15X15WHW6** | 1.5" x 1.5" | 1.75 x 1.70 | 44.5 x 43.2 | | 120 | | |
| **TY15X2WHW6** | 1.5" x 2" | 1.75 x 2.19 | 44.5 x 55.6 | **TY15CHW6** | 120 | 120 | 6 |
| **TY15X3WHW6** | 1.5" x 3" | 1.75 x 3.14 | 44.5 x 79.8 | | 120 | | |
| **TY15X4WHW6** | 1.5" x 4" | 1.75 x 4.46 | 44.5 x 113.3 | | 60 | | |
| **TY2X1WHW6** | 2" x 1" | 2.25 x 1.24 | 57.2 x 31.5 | | 120 | | |
| **TY2X2WHW6** | 2" x 2" | 2.25 x 2.19 | 57.2 x 55.6 | **TY2CHW6** | 120 | 120 | 6 |
| **TY2X3WHW6** | 2" x 3" | 2.25 x 3.14 | 57.2 x 79.8 | | 60 | | |
| **TY2X4WHW6** | 2" x 4" | 2.25 x 4.46 | 57.2 x 113.3 | | 60 | | |
| **TY3X1WHW6** | 3" x 1" | 3.25 x 1.24 | 82.6 x 31.5 | | 120 | | |
| **TY3X2WHW6** | 3" x 2" | 3.25 x 2.19 | 82.6 x 55.6 | | 60 | | |
| **TY3X3WHW6** | 3" x 3" | 3.25 x 3.14 | 82.6 x 79.8 | **TY3CHW6** | 60 | 120 | 6 |
| **TY3X4WHW6** | 3" x 4" | 3.25 x 4.46 | 82.6 x 113.3 | | 60 | | |
| **TY3X5WHW6** | 3" x 5" | 3.25 x 5.15 | 82.6 x 130.8 | | 60 | | |
| **TY4X2WHW6** | 4" x 2" | 4.25 x 2.19 | 108.0 x 55.6 | | 60 | | |
| **TY4X3WHW6** | 4" x 3" | 4.25 x 3.14 | 108.0 x 79.8 | **TY4CHW6** | 60 | 120 | 6 |
| **TY4X4WHW6** | 4" x 4" | 4.25 x 4.46 | 108.0 x 113.3 | | 30 | | |
| **TY4X5WHW6** | 4" x 5" | 4.25 x 5.15 | 108.0 x 130.8 | | 30 | | |

## Halogen-Free Wiring Duct Solid Divider Wall

| CAT. NO. | FITS DUCT TRADE SIZE | STD. CTN. QTY. | LENGTH (FT.) |
|---|---|---|---|
| **TY1DSHW6** | 1" H | 120 | 6 |
| **TY1.5DSHW6** | 1½" H | 120 | 6 |
| **TY2DSHW6** | 2" H | 120 | 6 |
| **TY3DSHW6** | 3" H | 1120 | 6 |
| **TY4DSHW6** | 4" H | 120 | 6 |
| **TY5DSHW6** | 5" H | 120 | 6 |

**W** = White

*To order duct without mounting holes, add suffix NM to catalog number.*
***Example:*** *TY1XWHW6NM is a 1" x 1" wide slot halogen-free white duct with no mounting holes.*

*Halogen-free (modified PPE) duct is UL® Recognized, CSA Certified and meets the JIC requirements.*

# Wiring Duct Tools and Accessories

## Create multiple channels inside wiring ducts!

## Divider Wall

- Separates high and low voltage to reduce shortages and interference
- Mount inside any Ty-Duct® PVC wiring duct using Universal Mounting Clips
- Solid and Wide Slotted style





| CAT. NO. | DESCRIPTION | LENGTH (FT.) | STD. CTN. QTY. |
|---|---|---|---|
| **TY1D[ _ ]P[ _ ]6** | 1" High Wall Divider | 6 | 120 |
| **TY1.5D[ _ ]P[ _ ]6** | 1.5" High Wall Divider | 6 | 120 |
| **TY2D[ _ ]P[ _ ]6** | 2" High Wall Divider | 6 | 120 |
| **TY3D[ _ ]P[ _ ]6** | 3" High Wall Divider | 6 | 120 |
| **TY4D[ _ ]P[ _ ]6** | 4" High Wall Divider | 6 | 120 |
| **TY5D[ _ ]P[ _ ]6** | 5" High Wall Divider | 6 | 120 |

*+Catalog number must be completed first by adding S for Solid divider or W for Wide Finger Slotted divider and then by adding G for Gray, W for White.*

***Examples:*** *TY2DSPG6 is a 2" high solid wall gray divider.*
*TY2DWPG6 is a 2" high slotted gray divider.*

## One size fits all!

## Universal Mounting Clips

- Added before or after the duct is in place, without additional hardware
- Twists into place — holds securely
- Installs easily using a screwdriver
- Accommodates up to 40 lb. cable ties
- Black polycarbonate
- For ½" and wider wiring duct sizes









| CAT. NO. | DESCRIPTION | QTY. |
|---|---|---|
| **UMC** | Universal Fastener Mount | 100 pk |



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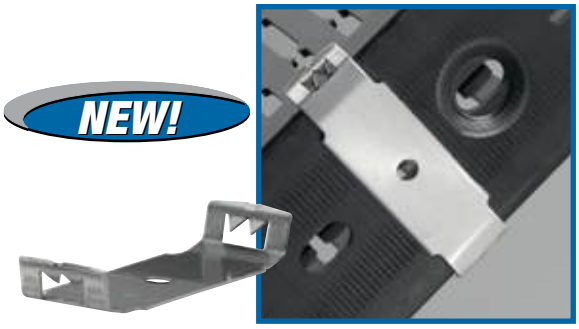
# Wiring Duct Tools and Accessories



## Ideal for high-temperature environments!

## Mounting Clips

- Speeds duct mounting
- Enables duct removal
- Provides a stand-off between panel and duct to prevent direct heat transfer — ideal for high-temperature environments




| CAT. NO. | WIDTH (IN.) | STD. CTN. QTY. |
|---|---|---|
| TY1MC | 1 | 100 |
| TY15MC | 1.5 | 100 |
| TY2MC | 2 | 100 |
| TY3MC | 3 | 100 |

*All are .75"D x .35"H and made of Type 316 stainless steel.*

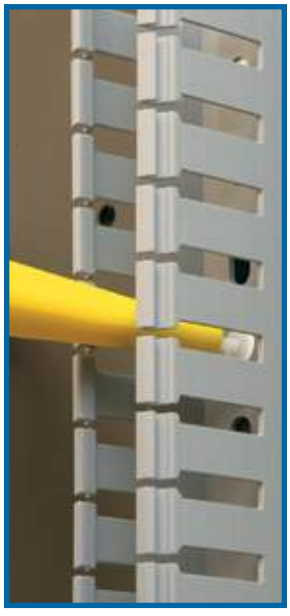
## Plastic rivets make mounting ducts easy!

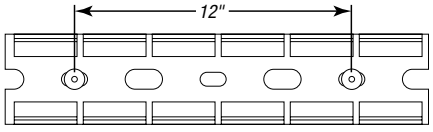
## Plastic Rivets



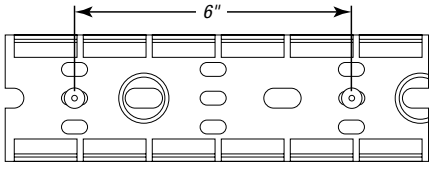
- Fast installation
- Durable and economical
- Used with panel thickness from .030"–.125" thick
- Recommended Panel Hole size: .196" ± .02

| STD. CAT. NO. | DESCRIPTION | QTY. |
|---|---|---|
| 08200C | 3⁄16" Plastic Rivet | 100 pk |
| 08200M | 3⁄16" Plastic Rivet | 1,000 pk |

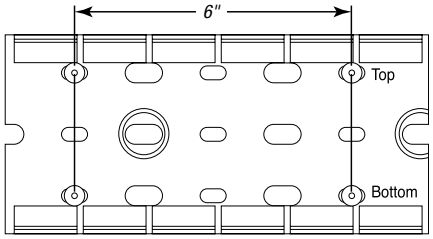





Minimum mounting rivet distance for ducts less than 1½" wide.




Minimum mounting rivet distance for ducts 1½" to 2½" wide.




Minimum mounting rivet distance for ducts greater than 2½" wide. Installed top and bottom.

## Wiring Duct Tools and Accessories

# The wiring duct tools you need for every application!

**Features include:**

- Duct Cutting Tools for a clean professional finish
- Finger Cutting Tools that make modifications simple
- Notching Tools for duct sidewalls to facilitate tee and corner junctions
- Benchmount Cutting Tools for fast, high volume duct cutting
- Rivet Installation Tools for quick duct mounting

## Lightweight and durable!

### Duct/ Cover Cutting Tool






- All-steel construction
- Sharp cutting surface
- Replaceable blades available

| CAT. NO. | DESCRIPTION |
|---|---|
| CC125 | Handheld Duct Cutter |
| SX-25TB | Handheld Duct Cutter — Long |

## Cut duct fingers easily!

### Finger Cutting Tool





- Rugged die-cast construction with insulated handles for a comfortable, non-slip grip
- Removes duct fingers in tight places
- Works with all slotted wiring duct
- Also cuts round and solid wall duct
- Spring loaded

| CAT. NO. | DESCRIPTION |
|---|---|
| DK-65TB | Duct Finger Cutter |



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# Wiring Duct Tools and Accessories

## For fast, high-volume duct cutting!

### Benchmount Cutting Tool

- Engineered for use with Ty-Duct® plastic wiring ducts and covers
- All-steel construction lasts for years
- Adjustable gauge sets the desired length of duct
- Easy-to-read measuring indicator
- Adjustable stop for easy repeated cutting
- Sharp, easy-to-replace blades



| CAT. NO. | DESCRIPTION |
|---|---|
| DC-125TB | Benchmount Duct Cutter |

## Notch duct sidewalls fast!

### Notching Tool



- Notches sidewalls to bottom scoreline
- Facilitates tee and corner junctions
- Rugged design
- Easy to use
- Spring loaded

| CAT. NO. | DESCRIPTION |
|---|---|
| DNT-100TB | Duct Notching Tool |

## Mount ducts quickly!

### Rivet Installation Tool

- Use for setting duct rivets
- Pressure on the tool head secures the rivet in place



You may also need...
Plastic Rivets
(see page C-79)

| CAT. NO. | DESCRIPTION |
|---|---|
| 08205 | 08200 Series Rivet Installation Tool |

## Wiring Duct Technical Information

# Wiring Duct — Wire Fill Capacity

***Note:*** *Wire fill is based on 50% fill of duct area.*

| NORMAL DUCT SIZE (IN.) | | | AREA (INCHES²) | ELECTRICAL | | | | | | | | | | | | DATA CABLE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 8 AWG | 10 AWG | 12 AWG | | 14 AWG | | | 16 AWG | | 18 AWG | | 22 AWG | 24 AWG | | |
| | | | | 0.216 | 0.153 | 0.122 | 0.158 | 0.105 | 0.139 | 0.165 | 0.096 | 0.125 | 0.084 | 0.113 | 0.065 | 0.217 | 0.250 | 0.422 |
| W | | H | | THHN | THHN | THHN | MTW | THHN | MTW | MTW | THHN | MTW | THHN | MTW | MTW | UTP/CM CAT5E | UTP/CM CAT6 | UTP/CM |
| .75 | X | 1.00 | .750 | 5 | 9 | 14 | 9 | 19 | 11 | 8 | 23 | 14 | 30 | 17 | 51 | 5 | 3 | 1 |
| .75 | X | 1.50 | 1.125 | 7 | 14 | 22 | 13 | 29 | 17 | 12 | 35 | 21 | 46 | 25 | 76 | 7 | 5 | 2 |
| .75 | X | 2.00 | 1.500 | 9 | 18 | 29 | 17 | 39 | 22 | 16 | 47 | 27 | 61 | 34 | 101 | 9 | 7 | 2 |
| 1.00 | X | 1.00 | 1.000 | 6 | 12 | 19 | 11 | 26 | 15 | 10 | 31 | 18 | 40 | 22 | 68 | 6 | 5 | 2 |
| 1.00 | X | 1.50 | 1.500 | 9 | 18 | 29 | 17 | 39 | 22 | 16 | 47 | 27 | 61 | 34 | 101 | 9 | 7 | 2 |
| 1.00 | X | 2.00 | 2.000 | 12 | 24 | 38 | 23 | 52 | 30 | 21 | 62 | 37 | 81 | 45 | 135 | 12 | 9 | 3 |
| 1.00 | X | 3.00 | 3.000 | 18 | 37 | 58 | 34 | 78 | 44 | 31 | 93 | 55 | 121 | 67 | 203 | 18 | 14 | 5 |
| 1.00 | X | 4.00 | 4.000 | 24 | 49 | 77 | 46 | 104 | 59 | 42 | 124 | 73 | 162 | 90 | 270 | 24 | 18 | 6 |
| 1.50 | X | 1.00 | 1.500 | 9 | 18 | 29 | 17 | 39 | 22 | 16 | 47 | 27 | 61 | 34 | 101 | 9 | 7 | 2 |
| 1.50 | X | 1.50 | 2.250 | 14 | 27 | 43 | 26 | 58 | 33 | 24 | 70 | 41 | 91 | 50 | 152 | 14 | 10 | 4 |
| 1.50 | X | 2.00 | 3.000 | 18 | 37 | 58 | 34 | 78 | 44 | 31 | 93 | 55 | 121 | 67 | 203 | 18 | 14 | 5 |
| 1.50 | X | 3.00 | 4.500 | 27 | 55 | 86 | 52 | 117 | 67 | 47 | 140 | 82 | 182 | 101 | 304 | 27 | 21 | 7 |
| 1.50 | X | 4.00 | 6.000 | 36 | 73 | 115 | 69 | 155 | 89 | 63 | 186 | 110 | 243 | 134 | 406 | 36 | 27 | 10 |
| 2.00 | X | 1.00 | 2.000 | 12 | 24 | 38 | 23 | 52 | 30 | 21 | 62 | 37 | 81 | 45 | 135 | 12 | 9 | 3 |
| 2.00 | X | 1.50 | 3.000 | 18 | 37 | 58 | 34 | 78 | 44 | 31 | 93 | 55 | 121 | 67 | 203 | 18 | 14 | 5 |
| 2.00 | X | 2.00 | 4.000 | 24 | 49 | 77 | 46 | 104 | 59 | 42 | 124 | 73 | 162 | 90 | 270 | 24 | 18 | 6 |
| 2.00 | X | 3.00 | 6.000 | 36 | 73 | 115 | 69 | 155 | 89 | 63 | 186 | 110 | 243 | 134 | 406 | 36 | 27 | 10 |
| 2.00 | X | 4.00 | 8.000 | 48 | 98 | 154 | 92 | 207 | 118 | 84 | 248 | 146 | 324 | 179 | 541 | 49 | 37 | 13 |
| 2.00 | X | 5.00 | 10.000 | 60 | 122 | 192 | 114 | 259 | 148 | 105 | 310 | 183 | 405 | 224 | 676 | 61 | 46 | 16 |
| 2.50 | X | 2.00 | 5.000 | 30 | 61 | 96 | 57 | 130 | 74 | 52 | 155 | 91 | 202 | 112 | 338 | 30 | 23 | 8 |
| 2.50 | X | 3.00 | 7.500 | 45 | 92 | 144 | 86 | 194 | 111 | 79 | 233 | 137 | 304 | 168 | 507 | 46 | 34 | 12 |
| 2.50 | X | 4.00 | 10.000 | 60 | 122 | 192 | 114 | 259 | 148 | 105 | 310 | 183 | 405 | 224 | 676 | 61 | 46 | 16 |
| 3.00 | X | 1.00 | 3.000 | 18 | 37 | 58 | 34 | 78 | 44 | 31 | 93 | 55 | 121 | 67 | 203 | 18 | 14 | 5 |
| 3.00 | X | 2.00 | 6.000 | 36 | 73 | 115 | 69 | 155 | 89 | 63 | 186 | 110 | 243 | 134 | 406 | 36 | 27 | 10 |
| 3.00 | X | 3.00 | 9.000 | 54 | 110 | 173 | 103 | 233 | 133 | 94 | 279 | 165 | 364 | 201 | 609 | 55 | 41 | 14 |
| 3.00 | X | 4.00 | 12.000 | 72 | 146 | 230 | 137 | 311 | 177 | 126 | 372 | 219 | 486 | 269 | 811 | 73 | 55 | 19 |
| 3.00 | X | 5.00 | 15.000 | 90 | 183 | 288 | 172 | 389 | 222 | 157 | 465 | 274 | 607 | 336 | 1014 | 91 | 69 | 24 |
| 4.00 | X | 1.50 | 6.000 | 36 | 73 | 115 | 69 | 155 | 89 | 63 | 186 | 110 | 243 | 134 | 406 | 36 | 27 | 10 |
| 4.00 | X | 2.00 | 8.000 | 48 | 98 | 154 | 92 | 207 | 118 | 84 | 248 | 146 | 324 | 179 | 541 | 49 | 37 | 13 |
| 4.00 | X | 3.00 | 12.000 | 72 | 146 | 230 | 137 | 311 | 177 | 126 | 372 | 219 | 486 | 269 | 811 | 73 | 55 | 19 |
| 4.00 | X | 4.00 | 16.000 | 96 | 195 | 307 | 183 | 415 | 237 | 168 | 496 | 293 | 648 | 358 | 1082 | 97 | 73 | 26 |
| 4.00 | X | 5.00 | 20.000 | 120 | 244 | 384 | 229 | 518 | 296 | 210 | 620 | 366 | 810 | 448 | 1352 | 121 | 91 | 32 |
| 6.00 | X | 4.00 | 24.000 | 144 | 293 | 461 | 275 | 622 | 355 | 252 | 744 | 439 | 972 | 537 | 1623 | 146 | 110 | 39 |

## Formula for Calculating Fill Capacity

$$\text{Number of wires} = \frac{\text{Duct W x H}}{1.75 \times (\text{Wire O.D.})^2} \Big/ 2$$



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# Properties of Materials Used in Wiring Duct



| PROPERTY | UNITS | ASTM TEST | PVC | HALOGEN FREE |
|---|---|---|---|---|
| Specific Gravity | | D792 | 1.43 | 1.10 |
| IZOD | ft.-lb./in. | D256 | 2 | 5.0 |
| Flexural Strength | psi | D790 | 10,900 | 12,800 |
| Flexural Modulus | psi | D790 | 382,000 | 360,000 |
| Tensile Strength | psi | D638 | 5,500 | 7,800 |
| Compressive Strength | psi | D695 | 8,600 | 16,000 |
| Water Absorption | 24 hrs.–% | D570 | .10 | .07 |
| Hardness | Rockwell<br>Duro D | D785<br>D676 | R-111<br>78 | R-115 |
| Dielectric Strength<br>60Hz, 25° C, s/t | vpm | D149 | | 400 |
| Dielectric Constant<br>60Hz, Dry<br>1MHz, Dry | | D150 | 1.9 | 2.65<br>2.64 |
| Volume Resistivity | ohm-cm | D257 | | 1017 |
| Heat Deflecting (° F@ 264 psi) | ° F | D648 | 158 | 212 |
| Flammability | | | 94 V-0 | 94 V-1 |

*The above information is believed reliable. The user should, however, check the applicable specifications to verify values.*

## Rigid Polyvinyl Chloride (PVC)

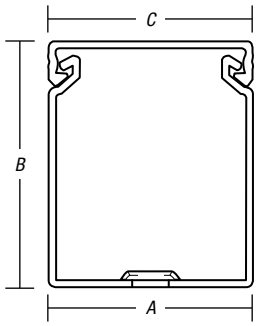
- General-purpose material for indoor applications
- UL94 flammability rating of V-0
- UL® Recognized for use in temperatures up to 50° C (122° F)
- Economical wiring duct material

## Halogen Free

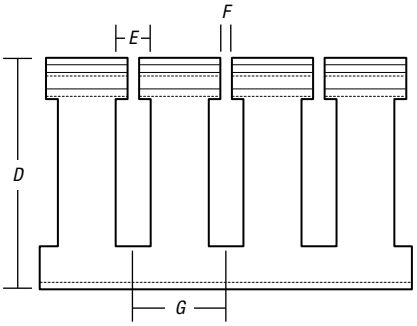
- For use in halogen-free or high-temperature applications
- UL94 flammability rating of V-1
- UL® Recognized for use in higher temperatures up to 95° C (203° F)
- 20% lighter than PVC

## Wiring Duct Technical Information

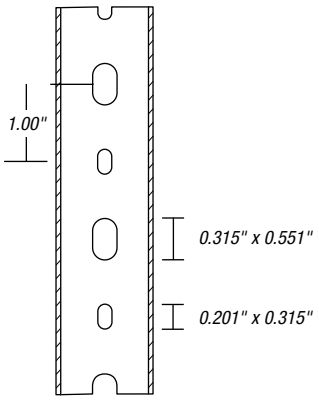
# Ty-Duct® Wide Slot Wiring Duct Dimensions



Front View with Cover



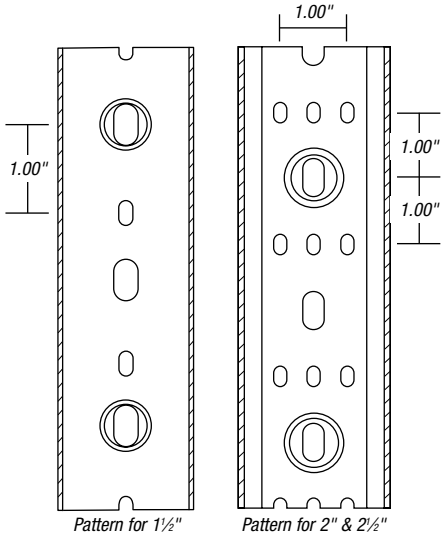
Side View without Cover



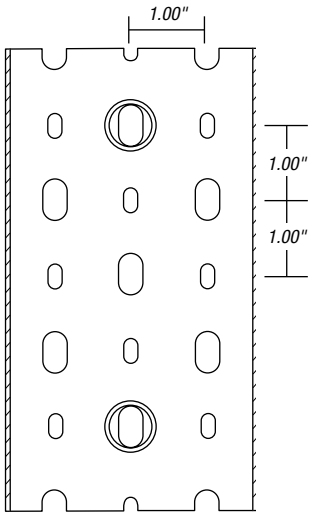
Pattern for ¾" & 1"

| TRADE SIZE | | | DIMENSIONS (INCHES) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| W | | H | A | B | C | D | E | F | G |
| .75 | X | 1.00 | .94 | 1.24 | .94 | 1.03 | .30 | .10 | .80 |
| .75 | X | 1.50 | .94 | 1.70 | .94 | 1.50 | .30 | .10 | .80 |
| .75 | X | 2.00 | .94 | 2.19 | .94 | 2.01 | .30 | .10 | .80 |
| 1.00 | X | 1.00 | 1.25 | 1.24 | 1.25 | 1.03 | .30 | .10 | .80 |
| 1.00 | X | 1.50 | 1.25 | 1.70 | 1.25 | 1.50 | .30 | .10 | .80 |
| 1.00 | X | 2.00 | 1.25 | 2.19 | 1.25 | 2.01 | .30 | .10 | .80 |
| 1.00 | X | 3.00 | 1.25 | 3.14 | 1.25 | 2.99 | .30 | .10 | 1.00 |
| 1.00 | X | 4.00 | 1.25 | 4.46 | 1.25 | 4.32 | .30 | .10 | 1.00 |
| 1.50 | X | 1.00 | 1.75 | 1.24 | 1.75 | 1.03 | .30 | .10 | .80 |
| 1.50 | X | 1.50 | 1.75 | 1.70 | 1.75 | 1.50 | .30 | .10 | .80 |
| 1.50 | X | 2.00 | 1.75 | 2.19 | 1.75 | 2.01 | .30 | .10 | .80 |
| 1.50 | X | 3.00 | 1.75 | 3.14 | 1.75 | 2.99 | .30 | .10 | 1.00 |
| 1.50 | X | 4.00 | 1.75 | 4.46 | 1.75 | 4.32 | .30 | .10 | 1.00 |
| 2.00 | X | 1.00 | 2.25 | 1.24 | 2.25 | 1.05 | .30 | .10 | .80 |
| 2.00 | X | 1.50 | 2.25 | 1.70 | 2.25 | 1.52 | .30 | .10 | .80 |
| 2.00 | X | 2.00 | 2.25 | 2.19 | 2.25 | 2.03 | .30 | .10 | .80 |
| 2.00 | X | 3.00 | 2.25 | 3.14 | 2.25 | 3.00 | .30 | .10 | 1.00 |
| 2.00 | X | 4.00 | 2.25 | 4.46 | 2.25 | 4.33 | .30 | .10 | 1.00 |
| 2.00 | X | 5.00 | 2.25 | 5.15 | 2.25 | 5.02 | .38 | .10 | 1.33 |
| 2.50 | X | 2.00 | 2.75 | 2.19 | 2.75 | 2.03 | .30 | .10 | .80 |
| 2.50 | X | 3.00 | 2.75 | 3.14 | 2.75 | 3.00 | .30 | .10 | 1.00 |
| 2.50 | X | 4.00 | 2.75 | 4.46 | 2.75 | 4.33 | .30 | .10 | 1.00 |
| 3.00 | X | 1.00 | 3.25 | 1.24 | 3.25 | 1.06 | .30 | .10 | .80 |
| 3.00 | X | 2.00 | 3.25 | 2.19 | 3.25 | 2.08 | .30 | .10 | .80 |
| 3.00 | X | 3.00 | 3.25 | 3.14 | 3.25 | 3.06 | .30 | .10 | 1.00 |
| 3.00 | X | 4.00 | 3.25 | 4.46 | 3.25 | 4.39 | .30 | .10 | 1.00 |
| 3.00 | X | 5.00 | 3.25 | 5.15 | 3.25 | 5.06 | .38 | .10 | 1.33 |
| 4.00 | X | 1.50 | 4.25 | 1.70 | 4.25 | 1.58 | .30 | .10 | .80 |
| 4.00 | X | 2.00 | 4.25 | 2.19 | 4.25 | 2.08 | .30 | .10 | .80 |
| 4.00 | X | 3.00 | 4.25 | 3.14 | 4.25 | 3.06 | .30 | .10 | 1.00 |
| 4.00 | X | 4.00 | 4.25 | 4.46 | 4.25 | 4.39 | .30 | .10 | 1.00 |
| 4.00 | X | 5.00 | 4.25 | 5.15 | 4.25 | 5.06 | .38 | .10 | 1.33 |
| 6.00 | X | 4.00 | 6.25 | 4.46 | 6.25 | 4.39 | .30 | .10 | 1.00 |

*Dimensions shown are for reference only. Contact T&B for specific dimensional needs.*



Pattern for 1½" Pattern for 2" & 2½"



Pattern for 3", 4" & 6"



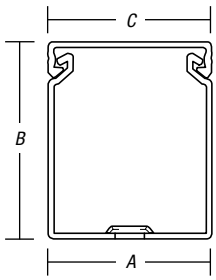
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# Ty-Duct® Narrow Slot Wiring Duct Dimensions



Front View with Cover

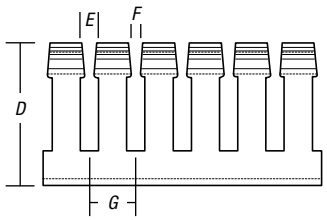


Figure 1: Side View without Cover

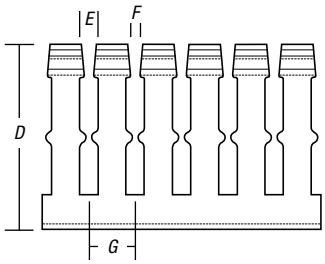


Figure 2: Side View without Cover

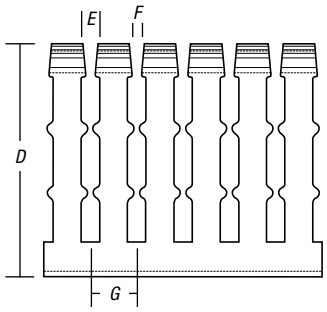
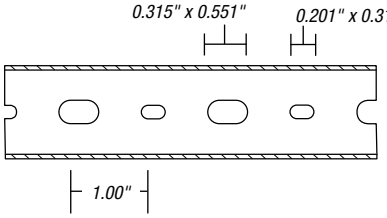
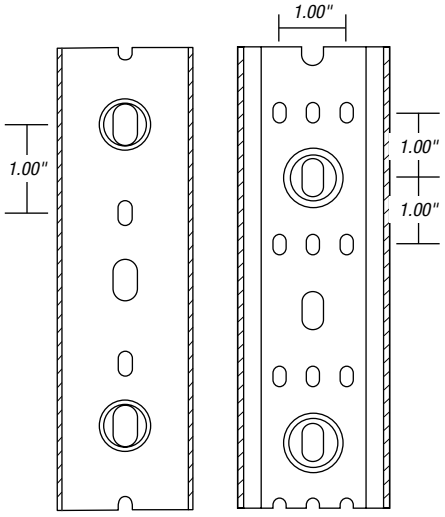


Figure 3: Side View without Cover



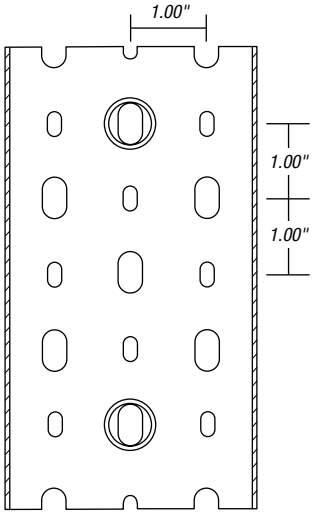
Pattern for ¾" & 1"



Pattern for 1½" Pattern for 2" & 2½"

| TRADE SIZE W | | H | FIG. | DIMENSIONS (INCHES) A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|---|---|---|
| .75 | X | 1.50 | 1 | .94 | 1.70 | .94 | 1.70 | .195 | .10 | .50 |
| 1.00 | X | 1.00 | 1 | 1.25 | 1.24 | 1.25 | 1.24 | .195 | .10 | .50 |
| 1.00 | X | 1.50 | 1 | 1.25 | 1.70 | 1.25 | 1.70 | .195 | .10 | .50 |
| 1.00 | X | 2.00 | 2 | 1.25 | 2.19 | 1.25 | 2.19 | .195 | .10 | .50 |
| 1.00 | X | 3.00 | 3 | 1.25 | 3.14 | 1.25 | 3.14 | .195 | .10 | .50 |
| 1.00 | X | 4.00 | 3 | 1.25 | 4.46 | 1.25 | 4.46 | .195 | .10 | .50 |
| 1.50 | X | 1.00 | 1 | 1.75 | 1.24 | 1.75 | 1.24 | .195 | .10 | .50 |
| 1.50 | X | 1.50 | 1 | 1.75 | 1.70 | 1.75 | 1.70 | .195 | .10 | .50 |
| 1.50 | X | 2.00 | 2 | 1.75 | 2.19 | 1.75 | 2.19 | .195 | .10 | .50 |
| 1.50 | X | 3.00 | 3 | 1.75 | 3.14 | 1.75 | 3.14 | .195 | .10 | .50 |
| 1.50 | X | 4.00 | 3 | 1.75 | 4.46 | 1.75 | 4.46 | .195 | .10 | .50 |
| 2.00 | X | 1.00 | 1 | 2.25 | 1.24 | 2.25 | 1.05 | .195 | .10 | .50 |
| 2.00 | X | 1.50 | 1 | 2.25 | 1.70 | 2.25 | 1.52 | .195 | .10 | .50 |
| 2.00 | X | 2.00 | 2 | 2.25 | 2.19 | 2.25 | 2.03 | .195 | .10 | .50 |
| 2.00 | X | 3.00 | 3 | 2.25 | 3.14 | 2.25 | 3.00 | .195 | .10 | .50 |
| 2.00 | X | 4.00 | 3 | 2.25 | 4.46 | 2.25 | 4.33 | .195 | .10 | .50 |
| 2.00 | X | 5.00 | 3 | 2.25 | 5.15 | 2.25 | 5.02 | .195 | .10 | .50 |
| 2.50 | X | 2.00 | 2 | 2.75 | 2.19 | 2.75 | 2.03 | .195 | .10 | .50 |
| 2.50 | X | 3.00 | 3 | 2.75 | 3.14 | 2.75 | 3.00 | .195 | .10 | .50 |
| 2.50 | X | 4.00 | 3 | 2.75 | 4.46 | 2.75 | 4.33 | .195 | .10 | .50 |
| 3.00 | X | 1.00 | 1 | 3.25 | 1.24 | 3.25 | 1.06 | .195 | .10 | .50 |
| 3.00 | X | 2.00 | 2 | 3.25 | 2.19 | 3.25 | 2.08 | .195 | .10 | .50 |
| 3.00 | X | 3.00 | 3 | 3.25 | 3.14 | 3.25 | 3.06 | .195 | .10 | .50 |
| 3.00 | X | 4.00 | 3 | 3.25 | 4.46 | 3.25 | 4.39 | .195 | .10 | .50 |
| 3.00 | X | 5.00 | 3 | 3.25 | 5.15 | 3.25 | 5.06 | .195 | .10 | .50 |
| 4.00 | X | 2.00 | 2 | 4.25 | 2.19 | 4.25 | 2.08 | .195 | .10 | .50 |
| 4.00 | X | 3.00 | 3 | 4.25 | 3.14 | 4.25 | 3.06 | .195 | .10 | .50 |
| 4.00 | X | 4.00 | 3 | 4.25 | 4.46 | 4.25 | 4.39 | .195 | .10 | .50 |
| 4.00 | X | 5.00 | 3 | 4.25 | 5.15 | 4.25 | 5.06 | .195 | .10 | .50 |

*Dimensions shown are for reference only. Contact T&B for specific dimensional needs.*



Pattern for 3", 4" & 6"

## Wiring Duct Technical Information

# Ty-Duct® Wiring Duct meets all of the prominent agency approvals and standards.

## Agency Approvals

Thomas & Betts Ty-Duct® wiring duct is UL® recognized for all requirements set forth in UL standard 1565 "Positioning Device."

Ty-Duct® wiring duct meets all applicable requirements of the Canadian Standard Association as described in CSA C22.2 No. 18.5.

All Ty-Duct® wiring duct components comply with the European Directives for CE (Conformite European) Marking.

All materials used in the making of the Ty-Duct® wiring duct comply with the European Directives 2002/95/EC (RoHS), 2002/96/EC (WEEE), and 2003/11/EC.

## Standards

### NFPA-79-2011

Thomas & Betts Ty-Duct® wiring duct is compliant with the National Fire Protection Agency NFPA-79-2011. All materials used in the manufacturing of the Ty-Duct® components are selected from flame-retardant material and comply with IEC 60332-1. The testing is required in order to comply with NFPA-79-2011, Section 13.3.1.

### UL 508/UL 508A

As required in UL508/UL508A a factory-installed conductor shall be separated from a conductor used in a different circuit when the conductors are not insulated for the maximum voltage of either circuit. The Ty-Duct® wiring duct with a divider wall creates the required separation to meet this requirement.

### DIN 43 659

This European standard specifies dimensions for slotted trunkings installed in electrical switchgear assemblies. The standard defines the following dimensions:

- The mounting hole pattern
- The mounting hole slot dimensions
- The mounting hole pitch and location
- The minimum overall product length



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## Carlon® Wiring Trough and Accessories

# No wires to pull, no hard-to-work-with metal components.

# Carlon® Wire Safe® Wireway and Wiring Trough

Carlon® leads the way with the world's broadest line of non-metallic wiring management products designed for easier installation, greater performance and lower installed cost. That includes our Carlon® Wire Safe® wireway, wiring trough and fittings. It's the perfect solution for containing electrical, electronic and communication wire and cable. That's because it's easy to install, provides durable protection and eliminates the need to pull conductors, too. Just compare it point for point against the competition and you'll see why it's the bestalternative for you.





### Easy to Cut and Assemble.

Wireway and trough can be cut easily and cleanly with either a hacksaw or fine-tooth saw to make field fabrication a snap. And it's equally easy to couple components with either Carlon® primer and PVC cement or non-metallic push rivets.

### Rugged Yet Lightweight.

UV-stabilized, high-impact resistant PVC provides a strong, durable, non-corrosive, non-conductive housing for wire and cable. At the same time, components are so light and easy to handle that installation can be done by one person.



### No Wires to Pull.

Once your wireway or trough is installed, just lay your wire and cable in, pop the cover on and you're done. It's as easy as that, and that's a lot easier than pulling wire or cable.

### Easy to Rewire.

Clip-on cover design enables easy access for adding or removing wire and cable after initial installation.



### Application Flexibility.

Wireway and trough are suitable for a wide range of applications, from the most demanding commercial and industrial uses, including food service companies and chemical plants, to communication and computer facilities. Both wireway and trough can be used on walls, ceilings or across supports.

### A Complete Non-Metallic System.

Both wireway and trough are available in 2" x 2", 3" x 3", 4" x 4" and 6" x 6" dimensions. Wireway comes cut in easy-to-use 10' lengths for larger jobs, and for tighter spaces, we offer specific lengths of wiring trough to fit distances of 1' to 10'. Both can be used with our non-metallic enclosures, conduit and fittings to create a total non-metallic wire and cable management system far superior to metal counterparts.



### Improved NEMA 12 Wireway End Caps.

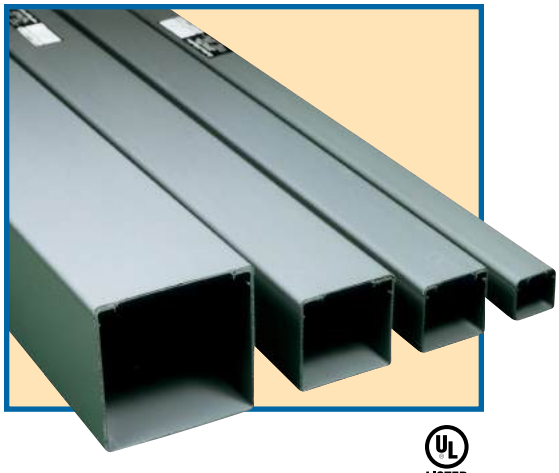
Our new wireway end caps are now made with pre-installed adhesive-backed gaskets. This new design makes them easier to use and also qualifies them for a NEMA 12 rating.

# Carlon® Wiring Trough and Accessories

## Wire Safe® Wireway

| CAT. NO. | OUTSIDE NOMINAL DIMENSIONS (IN.) | LENGTH (FT.) | STD. CTN. | STD. WT. (LBS.) PER 10' |
|---|---|---|---|---|
| 17011 | 2 x 2 | 10 | 1 | 4.7 |
| 17013 | 3 x 3 | 10 | 1 | 11.2 |
| 17015 | 4 x 4 | 10 | 1 | 11.2 |
| 17017 | 6 x 6 | 10 | 1 | 21.4 |

***Note:*** *Endcaps are not supplied with this series.*

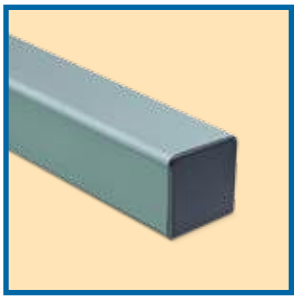


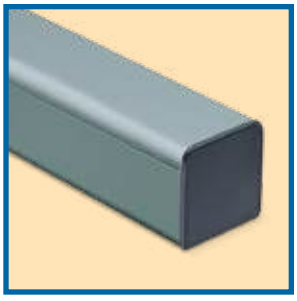
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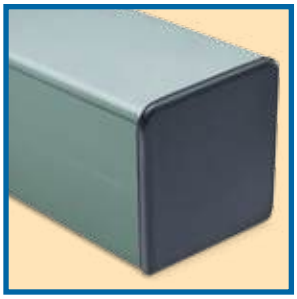
## Wire Safe® Wiring Trough

| CAT. NO. | OUTSIDE NOMINAL DIMENSIONS (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| ***12" Trough*** | | | |
| 18111 | 2 x 2 | 1 | .6 |
| 18113 | 3 x 3 | 1 | 1.0 |
| 18115 | 4 x 4 | 1 | 1.4 |
| 18117 | 6 x 6 | 1 | 3.1 |
| ***24" Trough*** | | | |
| 18211 | 2 x 2 | 1 | 1.1 |
| 18213 | 3 x 3 | 1 | 1.8 |
| 18215 | 4 x 4 | 1 | 2.6 |
| 18217 | 6 x 6 | 1 | 5.3 |
| ***36" Trough*** | | | |
| 18311 | 2 x 2 | 1 | 1.5 |
| 18313 | 3 x 3 | 1 | 2.6 |
| 18315 | 4 x 4 | 1 | 3.7 |
| 18317 | 6 x 6 | 1 | 7.4 |
| ***48" Trough*** | | | |
| 18411 | 2 x 2 | 1 | 2.0 |
| 18413 | 3 x 3 | 1 | 3.3 |
| 18415 | 4 x 4 | 1 | 4.8 |
| 18417 | 6 x 6 | 1 | 9.6 |
| ***60" Trough*** | | | |
| 18511 | 2 x 2 | 1 | 2.5 |
| 18513 | 3 x 3 | 1 | 4.1 |
| 18515 | 4 x 4 | 1 | 5.9 |
| 18517 | 6 x 6 | 1 | 11.7 |
| ***72" Trough*** | | | |
| 18611 | 2 x 2 | 1 | 2.9 |
| 18613 | 3 x 3 | 1 | 4.9 |
| 18615 | 4 x 4 | 1 | 7.1 |
| 18617 | 6 x 6 | 1 | 13.8 |
| ***120" Trough*** | | | |
| 18011 | 2 x 2 | 1 | 4.8 |
| 18013 | 3 x 3 | 1 | 8.1 |
| 18015 | 4 x 4 | 1 | 11.6 |
| 18017 | 6 x 6 | 1 | 22.4 |

*All wiring trough is made to order and is supplied with a pair of end caps.*









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# Carlon® Wiring Trough and Accessories

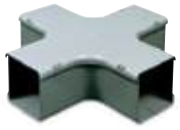


## Wire Safe® Fittings

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E151021

### Flat Cross (Clip-On Cover)

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| EGFCJ * | 2 x 2 | 1 | .5 |
| EGFCL * | 3 x 3 | 1 | 1.3 |
| EGFCN † | 4 x 4 | 1 | 1.7 |
| EGFCR † | 6 x 6 | 1 | 4.8 |



### 90° Bend Flat Cover (Clip-On Cover)

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| EGLFJ * | 2 x 2 | 1 | .3 |
| EGLFL * | 3 x 3 | 1 | .6 |
| EGLFN † | 4 x 4 | 1 | 1.1 |
| EGLFR † | 6 x 6 | 1 | 3.3 |



### 90° Bend External Cover (Clip-On Cover)

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| EGLEJ * | 2 x 2 | 1 | .3 |
| EGLEL † | 3 x 3 | 1 | .8 |
| EGLEN † | 4 x 4 | 1 | 1.2 |
| EGLER † | 6 x 6 | 1 | 3.3 |



### Flange

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| EGFJ ▶ | 2 x 2 | 10 | 1.1 |
| EGFL ▶ | 3 x 3 | 10 | 1.4 |
| EGFN ▶ | 4 x 4 | 10 | 2.2 |
| EGFR ▶ | 6 x 6 | 10 | 3.0 |



### End Cap (UL NEMA 12 Rated)

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| EGSEJ * | 2 x 2 | 10 Pair | .6 |
| EGSEL * | 3 x 3 | 10 Pair | .9 |
| EGSEN * | 4 x 4 | 10 Pair | 1.6 |
| EGSER †† | 6 x 6 | 10 Pair | 5.0 |



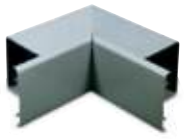
### External Coupling

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| EGCEJ | 2 x 2 | 10 | 1.3 |
| EGCEL | 3 x 3 | 10 | 2.2 |
| EGCEN | 4 x 4 | 10 | 2.5 |
| EGCER | 6 x 6 | 10 | 7.8 |



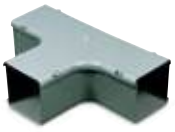
### 90° Bend Internal Cover (Clip-On Cover)

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| EGLIJ * | 2 x 2 | 1 | .3 |
| EGLIL † | 3 x 3 | 1 | .7 |
| EGLIN † | 4 x 4 | 1 | 1.1 |
| EGLIR † | 6 x 6 | 1 | 3.0 |



### Tee Flat Cover (Clip-On Cover)

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| EGTFJ * | 2 x 2 | 1 | .4 |
| EGTFL * | 3 x 3 | 1 | .9 |
| EGTFN † | 4 x 4 | 1 | 1.4 |
| EGTFR † | 6 x 6 | 1 | 3.8 |



### Tee External Cover (Clip-On Cover)

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| EGTEJ † | 2 x 2 | 1 | .4 |
| EGTEL † | 3 x 3 | 1 | .9 |
| EGTEN † | 4 x 4 | 1 | 1.4 |
| EGTER † | 6 x 6 | 1 | 3.8 |



### Internal Coupling

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| EGCIJ ▶ | 2 x 2 | 10 | 1.3 |
| EGCIL ▶ | 3 x 3 | 10 | 2.2 |
| EGCIN ▶ | 4 x 4 | 10 | 2.5 |
| — | 6 x 6 | N/A | N/A |



### Push Rivets

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| EGPR ▶ | N/A | 200 | .4 |



### Hangers

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| EGSBJ ▶ | 2 x 2 | 10 | .9 |
| EGSBL ▶ | 3 x 3 | 10 | 1.3 |
| EGSBN ▶ | 4 x 4 | 10 | 1.9 |
| EGSBR ▶ | 6 x 6 | 10 | 2.8 |



** Molded fitting — couplings not needed*

*† Fabricated fitting — order couplings separately*

*†† No coupling is required for 6" fabricated end cap*

# Wiring Trough Technical Information

## Installation Instructions

### Description.

Carlon® Wire Safe® Wireway and Wiring Trough is manufactured from extruded PVC. The standard color is gray. The wireway consists of a base channel that is formed to receive a clip-on cover. Wiring troughs include a pair of ready-to-install end caps.

### Cover Installation and Removal.

The cover can be installed by exerting hand pressure along its front face in such a manner as to engage and clip projections on the side walls of the base channel. The cover can be removed by inserting a tool (i.e., a screwdriver shaft) into one end of the wireway enclosure and exerting pressure against the underside of the cover, which is then "peeled off" from the base.

### Wireway Fittings.

Fittings enable the wireway to be positioned around corners and enable tees and crosses to be created without detracting from the protective characteristics. Interconnecting pieces can be assembled using couplings and rivets or cement as necessary.

Molded fittings do not require couplings because they fit on the exterior of the wireway. However, primer and solvent cement are needed. See cementing instructions on the following page.

Fabricated fittings do require internal or external couplings, and these must be ordered separately. To install fittings, a 9/32"-diameter hole should be drilled in the wireway to match the external coupling hole. A push rivet should be used to connect the two pieces. To connect an internal coupling to the inside of a fitting, use Carlon® Quick-Set Clear Cement.

### Applications.

These systems are designed for use in commercial and industrial areas. They may be used for the containment of electrical wiring/cables for power and lighting circuits and also communication and computer facilities. They are suitable for mounting on the surface of walls or ceilings or suspended across suitably positioned supports. Ambient temperatures should not exceed 122° F.

### Installation.

1. Mark the surface upon which the wireway is to be mounted.
2. Measure the run and identify position of fittings.
3. Remove cover from wireway, starting at one end, with a peeling action (use of a screwdriver or similar lever is recommended).
4. Drill mounting holes through base at 36" centers maximum. To evenly distribute the load, drill two rows of mounting holes adjacent to each wall of the wireway.
5. The holes in the wireway should be drilled oversize to enable expansion. Mount washers under the head of the mounting device. Do not fully tighten the mounting head.
6. Mount the wireway using screws or bolts.
7. Affix the wireway cover by aligning it to the wireway base. Starting at one end, press the cover into its engaged position.
8. Overlap the cover to the base joint to improve rigidity of the joint.

## Engineering Specifications

### Code Approvals.

Carlon® Wire Safe® Wireway and Wiring Trough is recognized by the current National Electrical Code®, Article 378, for non-metallic wireways. It is UL Listed for electrical wiring up to 600 volts. UL File Numbers: UL E151021.

### Specification for Carlon® Wire Safe Wireway and Wiring Trough.

- The wireway and wiring troughs shall be Carlon® Wire Safe Wireway and Wiring Trough.
- The Carlon® Wire Safe Wireway and Wiring Trough shall provide protection for electrical, low-voltage, data and communication wiring or cables.
- The Carlon® Wire Safe Wireway and Wiring Trough shall be listed and installed per the NEC® Article 378 for non-metallic wireways.
- The Carlon® Wire Safe Wireway and Wiring Trough shall be manufactured from gray precision-extruded Polyvinyl Chloride (PVC) meeting UL 94 V-0 requirements and shall be suitable for field painting.
- The Carlon® Wire Safe Wireway and Wiring Trough shall include base, cover, fittings, etc.
- The Carlon® Wire Safe Wireway and Wiring Trough shall provide all fittings required to form a complete, integrated surface raceway system. End caps shall be gasketed and shall have a NEMA Type 12 rating.
- The Carlon® Wire Safe Wireway and Wiring Trough shall provide raceway with the following cross sectional areas:
  1. 2 x 2 — 3.165 in.$^2$ (20.4 cm$^2$)
  2. 3 x 3 — 7.378 in.$^2$ (47 cm$^2$)
  3. 4 x 4 — 13.694 in.$^2$ (88 cm$^2$)
  4. 6 x 6 — 31.871 in.$^2$ (205 cm$^2$)

### Fittings.

Internal and external elbow shall be a fitting cover that snaps onto the main base. Flat elbows and flat tees shall be a fitting cover that snaps on to the main base. End caps shall be gasketed and NEMA Type 12 rated.

### Installation.

Install in accordance with the manufacturer's instructions, NFPA 70 and NEC® standard. Install base, cover, fittings, accessories, etc., as necessary for a complete system.

*NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.*



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# Cementing Instructions

1. Make a square cut using a miter box or precisely marked line on the wireway to provide a smooth connection.
2. Make certain surfaces to be bonded are free of dirt, dust, etc., by wiping them clean with a rag and by removing sawcut burrs with a knife or rasp.
3. With a dauber, place a coating of Carlon® Clear Primer on the wireway and its mating parts. Thoroughly coat the surfaces to be mated.
4. Allow the Carlon® Clear Primer a few seconds to soften the PVC surface (the time may need to be adjusted depending upon the temperature).
5. Apply a complete coating of Carlon® Quick-Set Clear Cement to matching ends that will be joined.
6. Hold the parts in position by exerting pressure on the surfaces with clamps.
7. Allow 15 minutes or more before removing clamps.

## Clear Primer

| CAT. NO. | STANDARD SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| VC9903 | Pint, Dauber Top | 24 | 27.0 |
| VC9902 | Quart, Dauber Top | 12 | 25.0 |

*Cement and primer not needed for end caps.*

## All-Weather Quick-Set Clear Cement

| CAT. NO. | STANDARD SIZE | STD. CTN. | STD. WT. (LBS.) |
|---|---|---|---|
| VC9984 | Half-Pint, Dauber Top | 10 | 7.0 |
| VC9983 | Pint, Dauber Top | 24 | 30.0 |
| VC9982 | Quart, Dauber Top | 12 | 29.0 |
| VC9981P | Gallon, Pour Top | 6 | 54.0 |

### Expansion And Contraction

Wireway will expand or contract with variations in temperature. To compensate for this expansion and contraction, during installation leave a .25" gap at joint, glue only one side of internal coupling or use external coupling with push rivets. All mounting holes should be drilled oversize and fasteners should not be tightened fully to allow for expansion and contraction.

## Materials

| | |
|---|---|
| PVC Homopolymer (ASTM F1784) | minimum cell class 12354B |
| Specific Gravity (ASTM D792) | 1.46 |
| Thermal Conductivity (ASTM C177) | 1.3 BTU/hr./ft.²/°F/in. |
| Heat-Deflection Temperature | |
| @ 264 psi (ASTM D648) | 70° C |
| Tensile Strength (ASTM D638) | 6000 psi |
| Flammability (UL 94) | V-0 |



## Physical Properties

| SIZE (IN.) | CRUSH STRENGTH[1] (LBS.) | IMPACT STRENGTH[2] (FT.-LBS.) |
|---|---|---|
| 2 x 2 | 650 | 40 |
| 3 x 3 | 500 | 30 |
| 4 x 4 | 500 | 40 |
| 6 x 6 | 600 | 50 |

**1** — Load on 6" long sample just prior to wall buckling; fully recoverable.
**2** — 5-lb. weight with 1¼" dia. face at 73° F.

## Dimensions

| OUTSIDE NOMINAL SIZE (IN.) | OUTSIDE ACTUAL SIZE (IN.) | INSIDE HEIGHT (IN.) | INSIDE WIDTH (IN.) | INSIDE AREA (IN.²) | WIREWAY THICKNESS (IN.) | COVER THICKNESS (IN.) | WT./FT. (LB./FT.) |
|---|---|---|---|---|---|---|---|
| 2 x 2 | 1.97 x 1.97 | 1.8 | 1.79 | 3.31 | .09 | .08 | .6 |
| 3 x 3 | 2.96 x 2.96 | 2.8 | 2.76 | 7.94 | .10 | .08 | .85 |
| 4 x 4 | 3.94 x 3.94 | 3.75 | 3.72 | 14.39 | .11 | .08 | 1.48 |
| 6 x 6 | 5.91 x 5.91 | 5.67 | 5.67 | 13.48 | .12 | .12 | 2.29 |

*All information represents typical values and does not represent a minimum performance specification.*

# Wiring Trough Technical Information

## Wire Fill Chart

| CONDUCTOR SIZE AWG/KCMIL | AREA OF CONDUCTOR (SQ. IN.) A RFH-2, RH, RHH, RHW***, SF-2*** | B TF, THW, TW† | C TFN, THHN, THWN | D XHHW, ZW†† | WIRE SAFE® WIREWAY SIZE AND MAXIMUM NUMBER OF CONDUCTORS ALLOWED (AREAS SHOWN ARE 20% OF THE FULL INTERIOR CROSS SECTIONAL AREA OF THE WIREWAY) 2 x 2 (.6 IN.²) A | B | C | D | 3 x 3 (1.5 IN.²) A | B | C | D | 4 x 4 (2.7 IN.²) A | B | C | D | 6 x 6 (6.4 IN.²) A | B | C | D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #18 AWG | .0167 | .0088 | .0062 | — | 36 | 68 | 96 | — | 89 | 170 | 241 | — | 161 | 306 | 435 | — | 383 | 727 | 1032 | — |
| #6 AWG | .0196 | .0109 | .0079 | — | 31 | 55 | 76 | — | 76 | 137 | 189 | — | 137 | 247 | 341 | — | 326 | 587 | 810 | — |
| #14 AWG | .0230 | .0135 | .0087 | — | 26 | 44 | 69 | — | 65 | 111 | 172 | — | 117 | 200 | 310 | — | 278 | 474 | 735 | — |
| #14 AWG | .0327* | — | — | — | 18 | — | — | — | 45 | — | — | — | 82 | — | — | — | 195 | — | — | — |
| #14 AWG | — | .0206† | — | .0131 | — | 29 | — | 46 | — | 72 | — | 114 | — | 131 | — | 206 | — | 310 | — | 488 |
| #12 AWG | .0278 | .0172 | .0117 | — | 21 | 35 | 51 | — | 53 | 87 | 128 | — | 97 | 156 | 230 | — | 230 | 372 | 547 | — |
| #12 AWG | .0384* | — | — | — | 16 | — | — | — | 39 | — | — | — | 70 | — | — | — | 166 | — | — | — |
| #12 AWG | — | .0252† | — | .0167 | — | 24 | — | 36 | — | 59 | — | 89 | — | 107 | — | 161 | — | 253 | — | 383 |
| #10 AWG | .0460 | .0222 | .0184 | — | 13 | 27 | 33 | — | 32 | 67 | 81 | — | 58 | 121 | 146 | — | 139 | 288 | 347 | — |
| #10 AWG | — | .0311 | — | .0216 | — | 19 | — | 28 | — | 48 | — | 69 | — | 86 | — | 125 | — | 205 | — | 296 |
| #8 AWG | .0845 | .0471 | .0373 | — | 7 | 13 | 16 | — | 17 | 31 | 40 | — | 31 | 57 | 72 | — | 75 | 135 | 171 | — |
| #8 AWG | — | .0598† | — | .0456 | — | 10 | — | 13 | — | 25 | — | 32 | — | 45 | — | 59 | — | 107 | — | 140 |
| #6 AWG | .1238 | .0819 | .0519 | .0625 | 4 | 7 | 11 | 10 | 12 | 18 | 28 | 24 | 21 | 32 | 52 | 43 | 51 | 78 | 123 | 102 |
| #4 AWG | .1605 | .1087 | .0845 | .0845 | 4 | 6 | 7 | 7 | 9 | 13 | 17 | 17 | 16 | 24 | 31 | 31 | 39 | 58 | 75 | 75 |
| #3 AWG | .1817 | .1263 | .0995 | .0995 | 3 | 5 | 6 | 6 | 8 | 11 | 15 | 15 | 14 | 21 | 27 | 27 | 35 | 50 | 64 | 64 |
| #2 AWG | .2067 | .1473 | .1182 | .1182 | 3 | 4 | 5 | 5 | 7 | 10 | 12 | 12 | 13 | 18 | 22 | 22 | 30 | 43 | 54 | 54 |
| #1 AWG | .2715 | .2027 | .1590 | .1590 | 2 | 3 | 4 | 4 | 5 | 7 | 9 | 9 | 9 | 13 | 16 | 16 | 23 | 31 | 40 | 40 |
| 1/0 AWG | .3107 | .2367 | .1893 | .1893 | 2 | 2 | 3 | 3 | 4 | 6 | 7 | 7 | 8 | 11 | 14 | 14 | 20 | 27 | 33 | 33 |
| 2/0 AWG | .3578 | .2781 | .2265 | .2265 | 1 | 2 | 2 | 2 | 4 | 5 | 6 | 6 | 7 | 9 | 11 | 11 | 17 | 23 | 28 | 28 |
| 3/0 AWG | .4151 | .3288 | .2715 | .2715 | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 5 | 6 | 8 | 9 | 9 | 15 | 19 | 23 | 23 |
| 4/0 AWG | .4840 | .3904 | .3278 | .3278 | 1 | 1 | 1 | 1 | 3 | 4 | 4 | 4 | 5 | 6 | 8 | 8 | 13 | 16 | 19 | 19 |
| 250 kcmil | .5917 | .4877 | .4026 | .4026 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 4 | 5 | 6 | 6 | 10 | 13 | 15 | 15 |
| 300 kcmil | .6837 | .5581 | .4669 | .4669 | — | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 5 | 5 | 9 | 11 | 13 | 13 |
| 350 kcmil | .7620 | .6291 | .5307 | .5307 | — | — | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 5 | 5 | 8 | 10 | 12 | 12 |
| 400 kcmil | .8365 | .6969 | .5931 | .5931 | — | — | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 7 | 9 | 10 | 10 |
| 500 kcmil | .9834 | .8316 | .7163 | .7163 | — | — | — | — | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 6 | 7 | 8 | 8 |
| 600 kcmil | 1.1940 | 1.0261 | .8791 | .9043 | — | — | — | — | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 6 | 7 | 7 |
| 700 kcmil | 1.3355 | 1.1575 | 1.0011 | 1.0297 | — | — | — | — | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 4 | 5 | 6 | 6 |
| 750 kcmil | 1.4082 | 1.2252 | 1.0623 | 1.0936 | — | — | — | — | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 4 | 5 | 6 | 5 |
| 800 kcmil | 1.4784 | 1.2908 | 1.1234 | 1.1499 | — | — | — | — | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 4 | 4 | 5 | 5 |
| 900 kcmil | 1.6173 | 1.4208 | 1.2449 | 1.2668 | — | — | — | — | — | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 5 |
| 1000 kcmil | 1.7530 | 1.5482 | 1.3623 | 1.3893 | — | — | — | — | — | — | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 4 | 4 | 4 |
| 1250 kcmil | 2.2062 | 1.9532 | — | 1.7671 | — | — | — | — | — | — | — | — | 1 | 1 | — | 1 | 2 | 3 | — | 3 |
| 1500 kcmil | 2.5475 | 2.2751 | — | 2.0612 | — | — | — | — | — | — | — | — | 1 | 1 | — | 1 | 2 | 2 | — | 3 |
| 1750 kcmil | 2.8832 | 2.5930 | — | 2.3779 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | 2 | 2 | — | 2 |
| 2000 kcmil | 3.2079 | 2.9013 | — | 2.6590 | — | — | — | — | — | — | — | — | — | — | — | 1 | 1 | 2 | — | 2 |

* *Dimensions of RHH and RHW.*

*** *Dimensions of RHH and RHW without outer covering are the same as THW No. 18 through No. 10, solid as well as No. 8 and larger, stranded.*

† *Dimensions of THW in sizes No. 14 through No. 8. No. 6 THW and larger are same dimension as TW.*

†† *No. 14 through No. 2.*

***Notes:***

*1) The ampacities of the conductors shall be reduced as shown in the table* ***below.***

*2) Refer to the National Electrical Code® for ambient temperature correction factors.*

| NUMBER OF CONDUCTORS | COLUMN A — PERCENT OF VALUES IN TABLES AS ADJUSTED FOR AMBIENT TEMPERATURE IF NECESSARY | NUMBER OF CONDUCTORS | COLUMN B** — PERCENT OF VALUES IN TABLES AS ADJUSTED FOR AMBIENT TEMPERATURE IF NECESSARY |
|---|---|---|---|
| 4 through 6 | 80 | 4 through 6 | 80 |
| 7 through 9 | 70 | 7 through 9 | 70 |
| 10 through 24* | 70 | 10 through 20 | 50 |
| 25 through 42* | 60 | 21 through 30 | 45 |
| 43 and above* | 50 | 31 through 40 | 40 |
| — | — | 41 through 60 | 35 |

** These factors include the effects of a load diversity of 50 percent.* *** No diversity.*



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EZCODE®

# EZCODE® Identification Products

**In this section...**



## EZCODE® Identification Products


Wire and Cable Marking..... D-2–D-19
Tags..... D-20–D-27
Labels..... D-28–D-35
Signs..... D-36–D-38
Warning Tapes..... D-39–D-40


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# Wire and Cable Marking

Count on EZCODE® solutions for wire markers that are easy to read and stand up to the test of time. We offer printable lable sheets that let you create and print your own wire markers, as well as preprinted wire marker books, cards and sleeve markers.




## Sleeve Markers

- Permanently I.D. wires, cables, leads and more
- Available in a variety of sizes and materials
- A large print surface provides easy identification
- For more information, see **pages D-15–D-19**

## Wire Marker Books/Cards

- Name components in seconds
- Choose the numbers or letters you need
- Carry most books and cards in your shirt pocket
- For more information, see **pages D-4–D-14**






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## *Wire and Cable Marking*

# Print your own markers to meet *your* requirements!

## Laser Printable Markers

- Self-laminating markers have a clear overlay of polyester that protects the legend against oils, grease, water, chemicals and foreign matter
- Markers feature a strong adhesive for maximum adhesion to the wire and are available in a variety of sizes, both as standard and specials
- 1 mil polyester (same material as WPR rolls)
- Test template included with each 25 pack
- Sizes to suit most applications



| CAT. NO. | SHEET SIZE | MARKERS PER SHEET | MARKER SIZE W x L | PRINT AREA W x L | MAX. WIRE DIA. |
|---|---|---|---|---|---|
| **WLP-1112** | 8½" x 11" | 48 | 1" x 1½" | ½" x 1" | 5/16" |
| **WLP-1214** | 8½" x 11" | 32 | 1" x 2¼" | 1" x ¾" | 15/32" |
| **WLP-12112** | 8½" x 11" | 96 | ½" x 1½" | 1/2" x ½" | 5/16" |
| **WLP-12214** | 8½" x 11" | 64 | ½" x 2¼" | ½" x ¾" | 15/32" |
| **WLP-12300** | 8½" x 11" | 48 | ½" x 3" | ½" x 1" | ⅞" |
| **WLP-1300** | 8½" x 11" | 24 | 1" x 3" | 1" x 1" | ⅞" |
| **WLP-1500** | 8½" x 11" | 16 | 1" x 5" | 1" x 1" | 1¼" |
| **WLP-2112** | 8½" x 11" | 24 | 2" x 1½" | 2½" x 2" | 5/16" |
| **WLP-2214** | 8½" x 11" | 16 | 2" x 2¼" | 2 x ¾" | 15/32" |
| **WLP-2300** | 8½" x 11" | 12 | 2" x 3" | 2" x 1" | ⅞" |
| **WLP-2500** | 8½" x 11" | 8 | 2" x 5" | 2" x 1" | 1¼" |

*Order multiple 25 sheets.*

*Add suffix **A** for 500 sheets, **B** for 1,000 sheets.*

*WLP labels may be used on any standard laser printer.*

## Dot-Matrix Printer Labels

| CAT. NO. | SHEET SIZE | MARKERS PER SHEET | MARKER SIZE W x L | PRINT AREA W x L | MAX. WIRE DIA. |
|---|---|---|---|---|---|
| **WES-12112** | 9½" x 8" | 64 | ½" x 1½" | ½" x ½" | 5/16" |
| **WES-1112** | 9½" x 8" | 32 | 1" x 1½" | 1" x ½" | 5/16" |
| **WES-2112** | 9½" x 8" | 16 | 2" x 1½" | 2" x ½" | 5/16" |
| **WES-12214** | 9½" x 9" | 48 | ½" x 2¼" | ½" x ¾" | 15/32" |
| **WES-1214** | 9½" x 9" | 24 | 1" x 2¼" | 1" x ¾" | 15/32" |
| **WES-2214** | 9½" x 9" | 12 | 2" x 2¼" | 2" x ¾" | 15/32" |
| **WES-12334** | 9½" x 9" | 32 | ½" x 3¾" | ½" x 1" | ⅞" |
| **WES-1334** | 9½" x 9" | 16 | 1" x 3¾" | 1" x 1" | ⅞" |
| **WES-2334** | 9½" x 9" | 8 | 2" x 3¾" | 2" x 1" | ⅞" |
| **WES-2512** | 9½" x 12" | 8 | 2" x 5½" | 2" x 1" | 1½" |
| **WES-2128** | 9½" x 9" | 3 | 2½" x 8½" | 2½" x 2" | 2" |

*Order multiple 25 sheets.*

*WES labels may be used on any standard dot-matrix printer.*

# Vinyl Cloth Wire Marker Books

### Standard Wire Marker Books

- Wide selection of sizes and legends
- Standard books are 3" x 5½" with 10 pages per book
- High-quality vinyl cloth material resists abrasion, oil, water and dirt
- Includes wire marker and terminal marker on one label

**Easy to Use!**

### Standard Books

| CAT. NO. | LEGENDS | NO. MARKERS PER LEGEND |
|---|---|---|
| **WM-0 THRU 9** | 0 through 9; | 40 |
| | T1, T2, T3, L1, L2, L3 | 10 |
| **WM-0-9M** | 0 through 9 (full page each number) | 46 |
| **WM-0-45** | 0 through 45 | 10 |
| **WM-46-90** | 46 through 90 | 10 |
| **WM-A-Z** | A through Z, +, -, 0 through 15 | 10 |
| **WM-123** | 1, 2, 3 | 150 |
| **WM-ABC** | A, B, C | 150 |
| **WM-A-33** | 1 through 33, A, B, C, +, -, T1, T2, T3, L1, L2, L3 | 10 |
| **WM-A-90** | 0 through 15; | 6 |
| | 16 through 90; | 4 |
| | A through Z | 2 |
| **WM-0 THRU WM-9** | Any number: 0 through 9 | 460 |
| **WM-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R, -S, -T, OR -X** | Any letter: -A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R, -S, -T or -X | 460 |
| **WM-GRD** | GRD (7/16" x 2½") | 120 |
| | or GRD (7/16" x 1¼") | 240 |
| **WMLC-1** | 24 house wiring and circuit breaker legends (⅝" x 13/32") | 20 |
| **WM-T3** | T1, T2, T3 | 140 |
| **WM-L3** | L1, L2, L3 | 140 |
| **WM-9T** | 1, 2, 3, A, B, C; | 42 |
| | T1, T2, T3; L1, L2, L3 | 28 |
| **WM-1-30** | 1 through 30 | 14 |
| **WM-12** | A through Z; | 14 |
| | Blank Write-Ons; | 22 |
| | +, - | 7 |
| **WM-13** | +, -, AC, DC; | 46 |
| | Pos. Neg. GND; | 28 |
| | Spare, Neut., Blank Write-Ons | 22 |
| **WM-0-90** | 0 through 45; 46 through 90 | 5 |

*Order multiple 10 books for Standard Books*




### Compact Wire Marker Books

- Bold letters/numbers — easy to apply and read
- Convenient alphanumeric and load-center legends
- E-Z Snap feature allows removal of the entire sheet from the book more easily

### Compact Books

| CAT. NO. | LEGENDS | NO. MARKERS PER LEGEND |
|---|---|---|
| **WCMB-0-9** | 0 through 9, A, B, C, +, - (¼" x 1½") | 128 |
| **WCMB-LC** | Load Center Labels (1/32 x ¾") | 176 |

Order multiple 20 books for Compact Books



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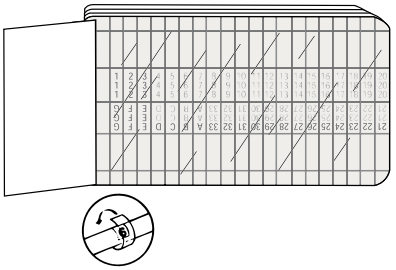
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# Wire and Cable Marking



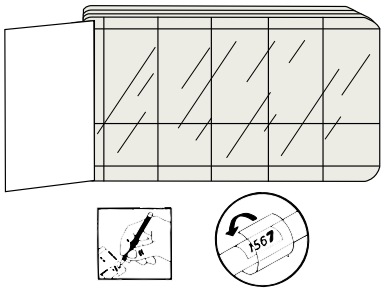
## Vinyl Self-Laminating Books

| CAT. NO. | LEGENDS | NO. MARKERS PER LEGEND |
|---|---|---|
| **WMSL 1-33, A-G** | ¼" x 1¼" – printed area ⅝"; 1 through 33 and A through G | 10 |
| **WMSL-0-9** | 0 through 9; | 40 |
| | T1, T2, T3, L1, L2, L3 | 10 |
| **WMSL-0-45** | 0 through 45 | 10 |
| **WMSL-46-90** | 46 through 90; | 10 |
| **WMSL-A-Z** | A through Z; +, -, 0 through 15 | 10 |
| **WMSL-A-90** | 0 through 15; | 6 |
| | 16 through 90; | 4 |
| | A through Z | 2 |



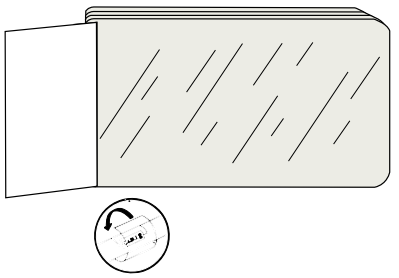
## Vinyl Self-Laminating, Blank Write-On Books

| CAT. NO. | LEGENDS | NO. MARKERS PER LEGEND |
|---|---|---|
| **WM-BW3** | 1" x 6" blank write-on self-laminating markers; marking area: 1" x 1" | 30 |
| **WM-BW5** | 1" x 3" blank write-on, self laminating markers; marking area: 1" x ¾" | 60 |
| **WM-BW12** | ½" x 1¼" blank write-on, self laminating markers; marking area: ½" x ⅝" | 200 |
| **WM-BW14** | ¼" x 1¼" blank write-on, self-laminating markers; marking area: ¼" x ⅝" | 400 |
| **WM-BW34** | ¾" x 1¾" blank write-on, self-laminating markers; marking area: ¾" x ½" | 120 |



## Vinyl Self-Laminating, Standard Laminator Book

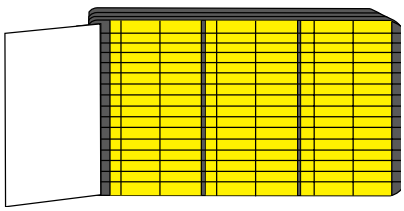
| CAT. NO. | LEGENDS | NO. MARKERS PER LEGEND |
|---|---|---|
| **WM-LAM** | 3½" x 5" Clear Cable Laminators | 50 |



## Vinyl, Color-Coding Standard books

- Available in two sizes
- Color your wires for coding and other applications

| CAT. NO. | LEGENDS | NO. MARKERS PER LEGEND |
|---|---|---|
| **WM-COL14** | ¼" x 1¼" 1 page yellow and blue; 2 pages red, white, green and black | 460 |
| **WM-COL1** | 1" x 2¼" 1 page yellow and blue; 2 pages red, white, green and black | 50 |

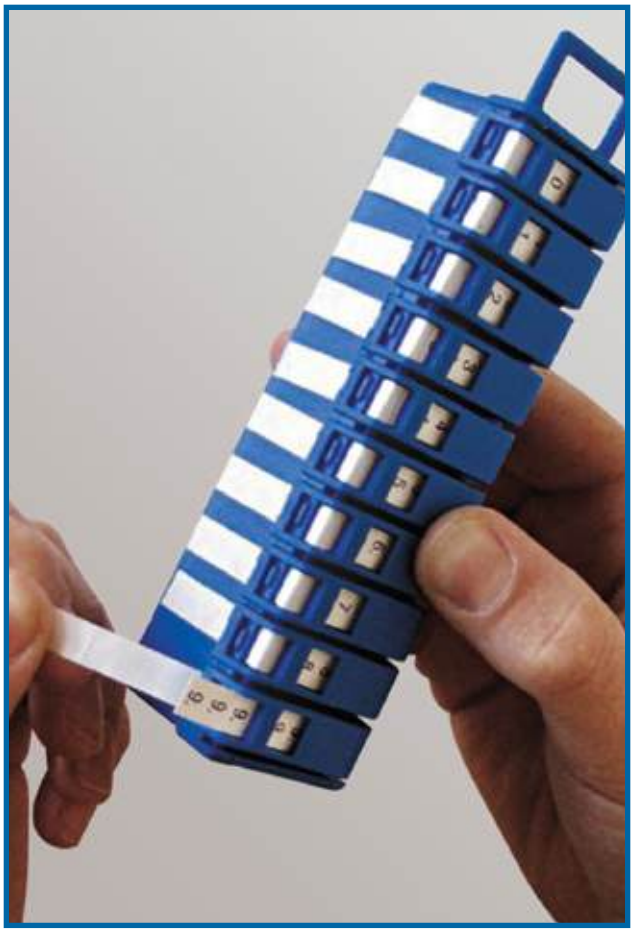


## Wire and Cable Marking

# Make identification clean and fast! Just pull out tape, tear and wrap.

## Wire Marker Dispenser

- Compact size fits in your pocket or hangs from work belt
- Unique design enables easy access to all legends during use or when refilling
- Holds 760 markers — 10 rolls of 76 markers each
- Markers are pre-cut, 1¼"-long, oil- and water-resistant polyester with acrylic adhesive



### Dispenser

| CAT. NO. | DESCRIPTION | STD. PKG. QTY. |
|---|---|---|
| **WDFP-0-9** | Loaded Dispenser with Legends 0 through 9 | 1 |
| **WDFP-NEMA** | Loaded Dispenser with 10 NEMA Colors | 1 |
| **WDFP** | Empty Dispenser | 1 |

### Polyester Tape Refills for Dispenser

| CAT. NO. | LEGEND | LABEL COLOR | ROLLS PER LEGEND |
|---|---|---|---|
| **WDFPR-0** | 0 | White | 10 |
| **WDFPR-1...WDFPR-9** | 1, 2...9 | White | 10 |
| **WDFPR-0-9** | 0...9 | White | 1 |
| **WDFPR-10-19** | 10...19 | White | 1 |
| **WDFPR-A...WDFPR-Z** | A, B...Z | White | 10 |
| **WDFPR-L1** | L1 | White | 10 |
| **WDFPR-L2** | L2 | White | 10 |
| **WDFPR-L3** | L3 | White | 10 |
| **WDFPR-T1** | T1 | White | 10 |
| **WDFPR-T2** | T2 | White | 10 |
| **WDFPR-T3** | T3 | White | 10 |
| **WDFPR-MIN** | – | White | 10 |
| **WDFPR-PLS** | + | White | 10 |
| **WDFPR-YEL** | BLANK | Yellow | 10 |
| **WDFPR-WHT** | BLANK | White | 10 |
| **WDFPRL-BLK** | BLANK | Black | 10 |
| **WDFPR-BRN** | BLANK | Brown | 10 |
| **WDFPR-BLU** | BLANK | Blue | 10 |
| **WDFPR-GRN** | BLANK | Green | 10 |
| **WDFPR-RED** | BLANK | Red | 10 |



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# Vinyl Cloth Wire Marker Cards

*This part number, for example, is a Wire Marker Card with a legend sequence of 1–5. Its length is 1½".*

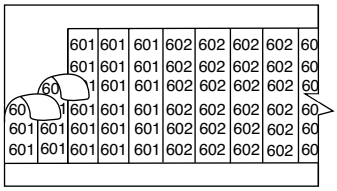
**WC - 1–5 - S**

**Card Type**
**WC** = Wire Marker Card
**WS** = Vinyl Self-Laminating

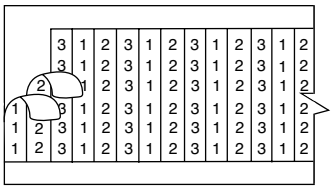
**Legend**
**Single Character** = 1, 2, 3, etc.
**Sequence** = 1–33, 34–66, etc.

**Length**
**S** = 1½"
**D** = ¾"

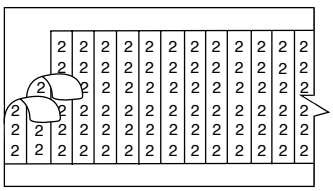
### Numbers in Sequence



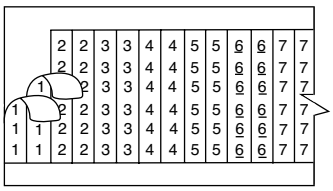
### Numbers in Sequence Repeated



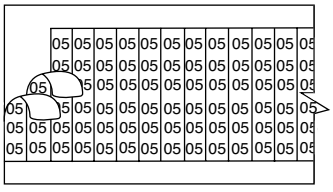
### Solid Numbers



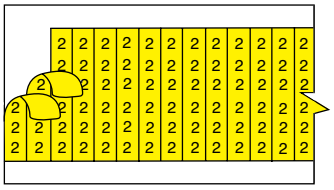
### Paired Numbers in Sequence



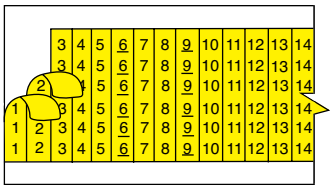
### Suffix Numbers



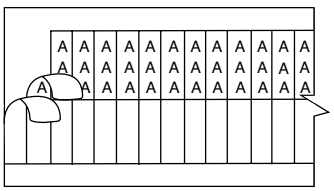
### Solid Numbers on a Colored Background



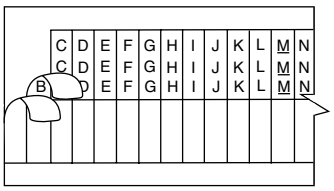
### Numbers in Sequence on a Colored Background



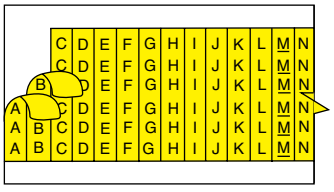
### Solid Letters



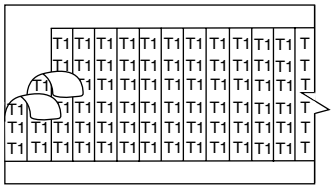
### Letters in Sequence



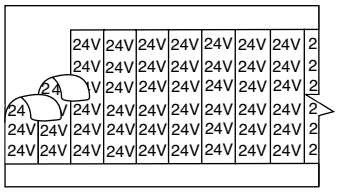
### Letters in Sequence on a Colored Background



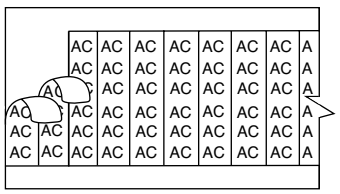
### Solid Letters and Numbers



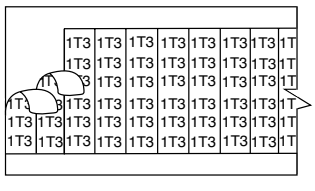
### Voltage Markers



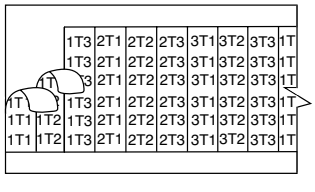
### Solid Symbols — Miscellaneous Electrical Symbols



### Solid Machine Tool Markers



### Machine Tool Markers in Sequence



# Vinyl Cloth Wire Marker Cards *(continued)*

| CAT. NO. | STYLE | LEGEND | MARKERS PER CARD OR PAIRS PER CARD 1-½" (38MM) | MARKERS PER CARD OR PAIRS PER CARD ¾" (19MM)* | DESCRIPTION (IF NEEDED) |
|---|---|---|---|---|---|
| **WC1-THRU-33S** | Numbers in Sequence | 1–33 | 33 | 66 | — |
| **WC34-THRU-66S** | | 34–66 | 33 | 66 | — |
| **WC67-THRU-99S** | | 67–99 | 33 | 66 | — |
| **WC100-THRU-124S** | | 100–124 | 25 | 50 | — |
| **WC125-THRU-149S** | | 125–149 | 25 | 50 | — |
| **WC974-THRU-999S** | | 974–999 | 25 | 50 | — |
| **WC1-THRU-3S** | Numbers in Sequence Repeated | 1–3 | 36 | 72 | — |
| **WC1-THRU-4S** | | 1–4 | 36 | 72 | — |
| **WC1-THRU-5S** | | 1–5 | 35 | 70 | — |
| **WC0-THRU-10S** | | 0–10 | 33 | 66 | — |
| **WC1-THRU-12S** | | 1–12 | 36 | 72 | — |
| **WC1-THRU-18S** | | 1–18 | 36 | 72 | — |
| **WC19-THRU-36S** | | 19–36 | 36 | 72 | — |
| **WCZEROS** | Solid Numbers | 0 | 36 | 72 | — |
| **WC1S, WC2S THRU WC99S** | | 1, 2…99 | 36 | 72 | — |
| **WC101S, 2C102S THRU WC600S** | | 101, 102…600 | 25 | 50 | — |
| **WC1 THRU 16PS** | Paired Numbers in Sequence | 1–16 | 16 | 32 | — |
| **WC17 THRU 32PS** | | 17–32 | 16 | 32 | — |
| **WC33 THRU 48PS** | | 33–48 | 16 | 32 | — |
| **WC00S** | Suffix Numbers | 00 | 36 | 72 | Cat. No. WC0009S has three sequences of 00…09 per card. Cat. No. WC0009D has six sequences of 00…09 per card. |
| **WC01S, WC02S THRU WC09S** | | 01, 02…09 | 36 | 72 | |
| **WC0009S** | | 00…09 | 30 | 60 | |
| **WCBLZEROS** | Solid Numbers on a Colored Background | 0 | 36 | 72 | White Legend on Blue Background |
| **WCBL1S…WCBL50S** | | 1…50 | 36 | 72 | |
| **WCGRZEROS** | | 0 | 36 | 72 | White Legend on Green Background |
| **WCGR1S…WCGR50S** | | 1…50 | 36 | 72 | |
| **WCORZEROS** | | 0 | 36 | 72 | Black Legend on Orange Background |
| **WCOR1S…WCOR50S** | | 1…50 | 36 | 72 | |
| **WCRDZEROS** | | 0 | 36 | 72 | White Legend on Red Background |
| **WCRD1S…WCRD50S** | | 1…50 | 36 | 72 | |
| **WCYLZEROS** | | 0 | 36 | 72 | Black Legend on Yellow Background |
| **WCYL1S…WCYL50S** | | 1…50 | 36 | 72 | |
| **WCBK1-33S** | Numbers in Sequence on a Colored Background | 1-33 | 33 | 66 | White Legend on Black Background |
| **WCBK34-66S** | | 34-66 | 33 | 66 | |
| **WCBK67-99S** | | 67-99 | 33 | 66 | |
| **WCBK100-124S** | | 100-124 | 25 | 50 | |
| **WCBL1-33S** | Numbers in Sequence on a Colored Background | 1–33 | 33 | 66 | White Legend on Blue Background |
| **WCBL34-66S** | | 34–66 | 33 | 66 | |
| **WCBL67-99S** | | 67–99 | 33 | 66 | |
| **WCBL100-124S** | | 100–124 | 25 | 50 | |
| **WCBR1-33S** | Numbers in Sequence on a Colored Background | 1–33 | 33 | 66 | White Legend on Brown Background |
| **WCBR34-66S** | | 34–66 | 33 | 66 | |
| **WCBR67-99S** | | 67–99 | 33 | 66 | |
| **WCBR100-124S** | | 100–124 | 25 | 50 | |
| **WCGR1-33S** | Numbers in Sequence on a Colored Background | 1–33 | 33 | 66 | White Legend on Green Background |
| **WCGR34-66S** | | 34–66 | 33 | 66 | |
| **WCGR67-99S** | | 67–99 | 33 | 66 | |
| **WCGR100-124S** | | 100–124 | 25 | 50 | |

***Note:*** *Order multiple 25 cards.*

** When ¾" length markers are required, replace the last S in the catalog number with a D. For example, WC1S would become WC1D.*



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# Wire and Cable Marking



| CAT. NO. | STYLE | LEGEND | MARKERS PER CARD OR PAIRS PER CARD 1-½" (38MM) | ¾" (19MM)* | DESCRIPTION (IF NEEDED) |
|---|---|---|---|---|---|
| **WCRD1-33S** | Numbers in Sequence on a Colored Background | 1–33 | 33 | 66 | White Legend on Red Background |
| **WCRD34-66S** | | 34–66 | 33 | 66 | |
| **WCRD67-99S** | | 67–99 | 33 | 66 | |
| **WCRD100-124S** | | 100–124 | 25 | 50 | |
| **WCOR1-33S** | Numbers in Sequence on a Colored Background | 1–33 | 33 | 66 | Black Legend on Orange Background |
| **WCOR34-66S** | | 34–66 | 33 | 66 | |
| **WCOR67-99S** | | 67–99 | 33 | 66 | |
| **WCOR100-124S** | | 100–124 | 25 | 50 | |
| **WCYL1-33S** | Numbers in Sequence on a Colored Background | 1–33 | 33 | 66 | Black Legend on Yellow Background |
| **WCYL34-66S** | | 34–66 | 33 | 66 | |
| **WCYL67-99S** | | 67–99 | 33 | 66 | |
| **WCYL100-124S** | | 100–124 | 25 | 50 | |
| **WCAS** | Solid Letters | A | 36 | 72 | — |
| **WCBS…WCZS** | | B...Z | 36 | 72 | — |
| **WCLAS** | | a | 36 | 72 | — |
| **WCLBS..WCLZS** | | b…z | 36 | 72 | — |
| **WCAZAJS** | Letters in Sequence | A–Z plus A–J | 36 | 72 | — |
| **WCAZ09S** | | A–Z plus 0–9 | 36 | 72 | — |
| **WCLAZAJS** | | a–z plus a–j | 36 | 72 | — |
| **WCBKA-ZS** | Letters in Sequence on a Colored Background | A–Z plus A–J | 36 | 72 | White Legend on Black Background |
| **WCBLA-ZS** | | A–Z plus A–J | 36 | 72 | White Legend on Dark Blue Background |
| **WCBRA-ZS** | | A–Z plus A–J | 36 | 72 | White Legend on Brown Background |
| **WCGRA-ZS** | | A–Z plus A–J | 36 | 72 | White Legend on Dark Green Background |
| **WCRDA-ZS** | | A–Z plus A–J | 36 | 72 | White Legend on Red Background |
| **WCORA-ZS** | | A–Z plus A–J | 36 | 72 | Black Legend on Yellow Background |
| **WCYLA-ZS** | | A–Z plus A–J | 36 | 72 | Black Legend on Orange Background |
| **WCA1S…WCA5S** | Solid Letters and Numbers | A1…A5 | 36 | 72 | — |
| **WCB1S…WCB5S** | | B1…B5 | 36 | 72 | — |
| **WCC1S…WCC5S** | | C1…C5 | 36 | 72 | — |
| **WCD1S…WCD5S** | | D1…D5 | 36 | 72 | — |
| **WCE1S…WCE5S** | | E1…E5 | 36 | 72 | — |
| **WCF1S…WCF4S** | | F1…F4 | 36 | 72 | — |
| **WCG1S…WCG4S** | | G1…G4 | 36 | 72 | — |
| **WCH1S…WCH5S** | | H1…H5 | 36 | 72 | — |
| **WCJ1S…WCJ4S** | | J1…J4 | 36 | 72 | — |
| **WCK1S…WCK4S** | | K1…K4 | 36 | 72 | — |
| **WCL1S…WCL5S** | | L1…L5 | 36 | 72 | — |
| **WCM1S…WCM5S** | | M1…M5 | 36 | 72 | — |
| **WCP1S…WCP4S** | | P1…P4 | 36 | 72 | — |
| **WCR1S…WCR5S** | | R1…R5 | 36 | 72 | — |
| **WCS1S…WCS5S** | | S1…S5 | 36 | 72 | — |
| **WCT0S…WCT9S** | | T0…T9 | 36 | 72 | — |
| **WCT10S…WCT15S** | | T10…T15 | 36 | 72 | — |
| **WCU1S…WCU2S** | | U1…U2 | 36 | 72 | — |
| **WCV1S…WCV2S** | | V1…V2 | 36 | 72 | — |
| **WCW1S…WCW2S** | | W1…W2 | 36 | 72 | — |
| **WCX1S…WCX4S** | | X1…X4 | 36 | 72 | — |
| **WCY1S…WCY4S** | | Y1…Y4 | 36 | 72 | — |
| **WCZ1S…WCZ4S** | | Z1…Z4 | 36 | 72 | — |

***Note:*** *Order multiple 25 cards.*

** When ¾" length markers are required, replace the last S in the catalog number with a D. For example, WC1S would become WC1D.*

# Vinyl Cloth Wire Marker Cards *(continued)*

| CAT. NO. | STYLE | LEGEND | MARKERS PER CARD OR PAIRS PER CARD 1-½" (38MM) | MARKERS PER CARD OR PAIRS PER CARD ¾" (19MM)* | DESCRIPTION (IF NEEDED) |
|---|---|---|---|---|---|
| **WC3VS** | Voltage Markers | 3V | 36 | 72 | — |
| **WC6VS** | | 6V | 36 | 72 | — |
| **WC12VS** | | 12V | 25 | 50 | — |
| **WC24VS** | | 24V | 25 | 50 | — |
| **WC110VS** | | 110V | 22 | 44 | — |
| **WC115VS** | | 115V | 22 | 44 | — |
| **WC120VS** | | 120V | 22 | 44 | — |
| **WC125VS** | | 125V | 22 | 44 | — |
| **WC180VS** | | 180V | 22 | 44 | — |
| **WC220VS** | | 220V | 22 | 44 | — |
| **WC230VS** | | 230V | 22 | 44 | — |
| **WC240VS** | | 240V | 22 | 44 | — |
| **WC270VS** | | 270V | 22 | 44 | — |
| **WC280VS** | | 280V | 22 | 44 | — |
| **WC440VS** | | 440V | 22 | 44 | — |
| **WC460VS** | | 460V | 22 | 44 | — |
| **WC480VS** | | 480V | 22 | 44 | — |
| **WCPLSS** | Solid Miscellaneous Electrical Symbols | + | 36 | 72 | — |
| **WCMINS** | | - | 36 | 72 | — |
| **WCAPLSS** | | A+ | 25 | 50 | — |
| **WCAMINS** | | A- | 25 | 50 | — |
| **WCBPLSS** | | B+ | 25 | 50 | — |
| **WCBMINS** | | B- | 25 | 50 | — |
| **WCPOSS** | | POS | 25 | 50 | — |
| **WCNEGS** | | NEG | 25 | 50 | — |
| **WCPHS** | | Phase | 18 | 36 | — |
| **WCPHAS** | | Phase A | 18 | 36 | — |
| **WCPHBS** | | Phase B | 18 | 36 | — |
| **WCPHCS** | | Phase C | 18 | 36 | — |
| **WC1PHS** | | 1 Phase | 18 | 36 | — |
| **WC2PHS** | | 2 Phase | 18 | 36 | — |
| **WC3PHS** | | 3 Phase | 18 | 36 | — |
| **WCINS** | | IN | 36 | 72 | — |
| **WCOUTS** | | OUT | 25 | 50 | — |
| **WCHOTS** | | HOT | 25 | 50 | — |
| **WCGRDS** | | GRD | 25 | 50 | — |
| **WCNEUTS** | | NEUT | 22 | 44 | — |
| **WCLINES** | | LINE | 22 | 44 | — |
| **WCLPLS** | | L+ | 25 | 50 | — |
| **WCLMIS** | | L- | 25 | 50 | — |
| **WCLOADS** | | LOAD | 22 | 44 | — |
| **WCPUS** | | PU | 36 | 72 | — |
| **WCGRCS** | | ⏚ | 36 | 72 | — |
| **WCGENS** | | GEN | 25 | 50 | — |
| **WCACS** | | AC | 36 | 72 | — |
| **WCDCS** | | DC | 36 | 72 | — |
| **WCCOMS** | | COM | 25 | 50 | — |
| **WCBATS** | | BAT | 25 | 50 | — |
| **WCBBS** | | BB | 36 | 72 | — |

***Note:*** *Order multiple 25 cards.*

** When ¾" length markers are required, replace the last S in the catalog number with a D. For example, WC1S would become WC1D.*



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# Wire and Cable Marking



| CAT. NO. | STYLE | LEGEND | MARKERS PER CARD OR PAIRS PER CARD 1-½" (38MM) | ¾" (19MM)* | DESCRIPTION (IF NEEDED) |
|---|---|---|---|---|---|
| **WCCBS** | Solid Miscellaneous Electrical Symbols | CB | 36 | 72 | — |
| **WCCTS** | | CT | 36 | 72 | — |
| **WCIGNS** | | IGN | 25 | 50 | — |
| **WCSIGS** | | SIG | 25 | 50 | — |
| **WCSECS** | | SEC | 25 | 50 | — |
| **WCPSS** | | PS | 36 | 72 | — |
| **WCPRIS** | | PRI | 25 | 50 | — |
| **WCPLSS** | | PL | 36 | 72 | — |
| **WCTBS** | | TB | 36 | 72 | — |
| **WCSSS** | | SS | 36 | 72 | — |
| **WCSPARES** | | SPARE | 18 | 36 | — |
| **WCCYSS** | | ~ | 36 | 72 | — |
| **WCGRSS** | | ⏚ | 36 | 72 | — |
| **WCPES** | | PE | 36 | 72 | — |
| **WCPENS** | | PEN | 25 | 50 | — |
| **WC1US** | | 1U | 36 | 72 | — |
| **WC2US** | | 2U | 36 | 72 | — |
| **WC1VS** | | 1V | 36 | 72 | — |
| **WC2VS** | | 2V | 36 | 72 | — |
| **WC1WS** | | 1W | 36 | 72 | — |
| **WC2WS** | | 2W | 36 | 72 | — |
| **WC1L1S** | Solid Machine Tool Markers | 1L1 | 25 | 50 | — |
| **WC1L2S** | | 1L2 | 25 | 50 | — |
| **WC1L3S** | | 1L3 | 25 | 50 | — |
| **WC2L1S** | | 2L1 | 25 | 50 | — |
| **WC2L2S** | | 2L2 | 25 | 50 | — |
| **WC2L3S…WC6L1S** | | 2L3…6L1 | 25 | 50 | — |
| **WC6L2S** | | 6L2 | 25 | 50 | — |
| **WC6L3S** | | 6L3 | 25 | 50 | — |
| **WC1T1S** | | 1T1 | 25 | 50 | — |
| **WC1T2S** | | 1T2 | 25 | 50 | — |
| **WC1T3S** | | 1T3 | 25 | 50 | — |
| **WC2T1S** | | 2T1 | 25 | 50 | — |
| **WC2T2S** | | 2T2 | 25 | 50 | — |
| **WC2T3S…WC7T1S** | | 2T3…7T1 | 25 | 50 | — |
| **WC7T2S** | | 7T2 | 25 | 50 | — |
| **WC7T3S** | | 7T3 | 25 | 50 | — |
| **WCLL1S** | | LL1 | 25 | 50 | — |
| **WCLL2S** | | LL2 | 25 | 50 | — |
| **WCLL3S** | | LL3 | 25 | 50 | — |
| **WC1T1-3T3S** | Machine Tool Markers in Sequence | 1T1, 1T2, 1T3, 2T1, 2T2, 2T3, 3T1, 3T2, 3T3 | 27 | 54 | — |
| **WC4T1-6T3S** | | 4T1, 4T2, 4T3, 5T1, 5T2, 5T3, 6T1, 6T2, 6T3 | 27 | 54 | — |
| **WC7T1-9T3S** | | 7T1, 7T2, 7T3, 8T1, 8T2, 8T3, 9T1, 9T2, 9T3 | 27 | 54 | — |
| **WCLL1-LL3S** | | LL1, LL2, LL3 | 27 | 54 | — |
| **WCA1-S2S** | | A1, A2, F1, F2, S1, S2 | 36 | 72 | — |

***Note:*** *Order multiple 25 cards.*

** When ¾" length markers are required, replace the last S in the catalog number with a D. For example, WC1S would become WC1D.*

## Wire and Cable Marking

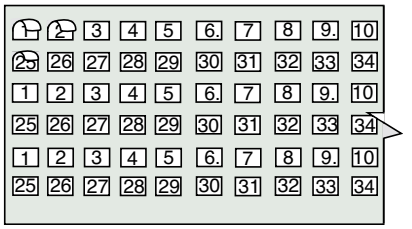
# Identify smaller items, such as terminal blocks and small wires.

# Vinyl Cloth Mini Markers

### Terminal Block

| CAT. NO. | LEGEND | MARKERS PER CARD MARKER SIZE 5/16" x 3/16" |
|---|---|---|
| **WC1-48TM** | 1, 2 through 48 | 144 |
| **WC49-96TM** | 49, 50 through 96 | 144 |
| **WCA-ZTM** | A, B through Z * | 144 |

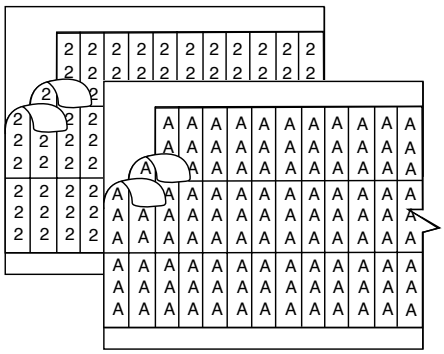
*Order multiple 25 cards.*
** A through Z legend does not include "I" or "O."*



### Solid Numbers and Solid Letters

| CAT. NO. | LEGEND | MARKERS PER CARD ½" (13MM) |
|---|---|---|
| ***Solid Numbers*** | | |
| **WCZEROMIN...WC99MIN** | 0, 1,...99 | 150 |
| **WC100MIN...WC250MIN** | 100, 101...250 | 99 |
| ***Solid Letters*** | | |
| **WCAMIN** | A | 150 |
| **WCBMIN...WCZMIN** | B,C... Z | 150 |

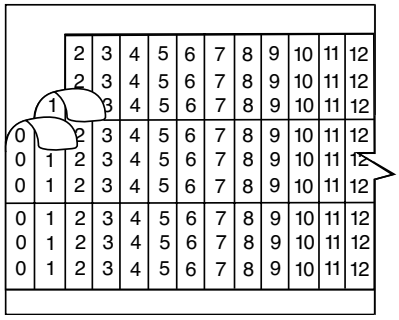
*Order multiple 25 cards.*



### Numbers in Sequence

| CAT. NO. | LEGEND | MARKERS PER CARD ½" (13MM) |
|---|---|---|
| **WC0-49MIN** | 0, 1... 49 | 150 |
| **WC50-99MIN** | 50, 51...99 | 150 |
| **WC100-132MIN** | 100, 101...132 | 99 |
| **WC133-165MIN THRU WC463-495MIN** | 133, 134...495 | 99 |

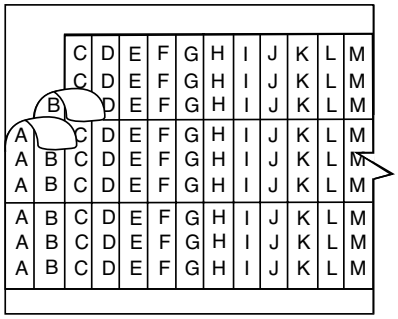
*Order multiple 25 cards.*
*Quantity of each number per card — 3.*



### Letters in Sequence

| CAT. NO. | LEGEND | MARKERS PER CARD ½" (13MM) |
|---|---|---|
| **WCAZMIN** | A, B...Z | 156 |

*Order multiple 25 cards.*





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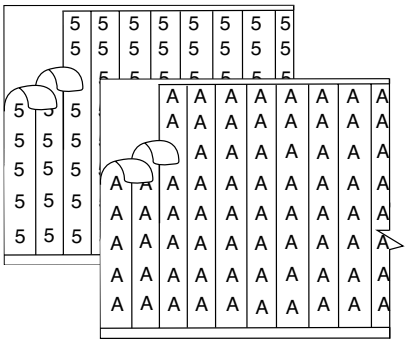
# Identify large conductors, cables and tubing for hydraulic systems.

## Vinyl Cloth Cable Markers

### Solid Numbers or Letters

| CAT. NO. | LEGEND | MARKERS PER CARD 3½" (89MM) | 1¾" (45MM)* |
|---|---|---|---|
| ***Solid Letters*** | | | |
| **WCCMAS** | A | 18 | 36 |
| **WCCMBS** | B | 18 | 36 |
| **WCCMCS** | C | 18 | 36 |
| **WCCMDS** | D | 18 | 36 |
| **WCCMES** | E | 18 | 36 |
| **WCCMFS** | F | 18 | 36 |
| **WCCMNS** | N | 18 | 36 |
| ***Solid Numbers*** | | | |
| **WCCM0S** | 0 | 18 | 36 |
| **WCCM1S, WCCM2S... WCCM9S** | 1, 2...9 | 18 | 36 |

*Order multiple 25 cards.*

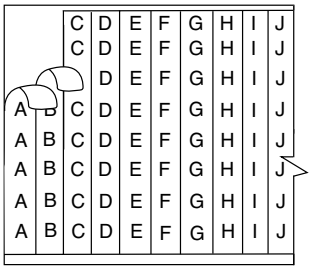


** When 1¾" length markers are required, replace the last S in the part number with a D. e.g., WCCM1S would become WCCM1D.*

### Numbers or Letters in Sequence

| CAT. NO. | LEGEND | MARKERS PER CARD 3½" (89MM) | 1¾" (45MM)* |
|---|---|---|---|
| **WCCM01-09S** | 01 through 09 | 2 | 4 |
| **WCCM1-9S** | 1 through 9 | 2 | 4 |
| **WCCM1-18S** | 1 through 18 | 1 | 2 |
| **WCCM19-36S** | 19 through 36 | 1 | 2 |
| **WCCM37-54S** | 37 through 54 | 1 | 2 |
| **WCCM55-72S** | 55 through 72 | 1 | 2 |
| **WCCM73-90S** | 73 through 90 | 1 | 2 |
| **WCCM91-99S** | 91 through 99 | 2 | 4 |
| **WCCMA-IS** | A through I | 2 | 4 |
| **WCCMJ-RS** | J through R | 2 | 4 |
| **WCCMS-ZS** | S through Z | 2 | 4 |

*Order multiple 25 cards.*

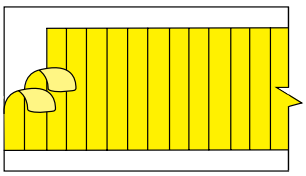


** When 1¾" length markers are required, replace the last S in the part number with a D. e.g., WCCM1S would become WCCM1D.*

### Solid NEMA Colors

| CAT. NO. | COLOR | MARKERS PER CARD 1½" (38MM) | ¾" (19MM)* |
|---|---|---|---|
| **WCBLKS** | Black | 36 | 72 |
| **WCBLDS** | Dark Blue | 36 | 72 |
| **WCBLLS** | Light Blue | 36 | 72 |
| **WCBRNS** | Brown | 36 | 72 |
| **WCGRYS** | Gray | 36 | 72 |
| **WCDGRS** | Dark Green | 36 | 72 |
| **WCGRLS** | Light Green | 36 | 72 |
| **WCMARS** | Maroon | 36 | 72 |
| **WCOLIS** | Olive | 36 | 72 |
| **WCORAS** | Orange | 36 | 72 |
| **WCPINS** | Pink | 36 | 72 |
| **WCPURS** | Purple | 36 | 72 |
| **WCREDS** | Red | 36 | 72 |
| **WCTANS** | Tan | 36 | 72 |
| **WCWHIS** | White | 36 | 72 |
| **WCYELS** | Yellow | 36 | 72 |

*Order multiple 25 cards.*

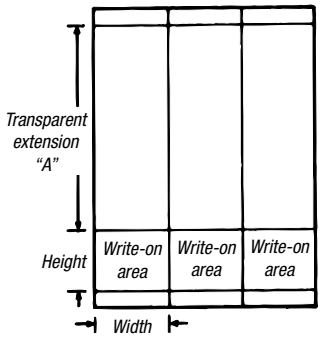


** When ¾" length markers are required, replace the last S in the part number with a D. e.g., WC1S would become WC1D.*

# Self-Laminating Vinyl Wire Marker Cards

## Blank Write-On Cable Markers

| CAT. NO. | OVERALL MARKER SIZE | WRITE-ON AREA W X H | MARKERS PER CARD |
|---|---|---|---|
| WSLM33 | 1" x 2¾" | 1" x ¾" | 3 |
| WSLM35 | 1" x 5" | 1" x 1" | 3 |
| WSLM123 | 1½" x 3" | 1½" x ¾" | 2 |
| WSLM23 | 2" x 3" | 2" x ¾" | 2 |
| WSLM125 | 1½" x 5" | 1½" x 1" | 2 |
| WSLM25 | 2" x 5" | 2" x 1" | 2 |
| WSLM48 | 2" x 8" | 2" x 3¾" | 2 |
| WSLM95 | 2¼" x 2¼" | 2½" x 2¼" | 2 |
| WSLM410 | 2" x 10" | 2" x 4½" | 2 |
| WSLM415 | 2" x 15" | 2" x 7" | 2 |

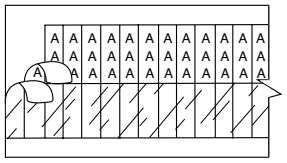



## Solid Letters

| CAT. NO. | LEGEND | MARKERS PER CARD 1½" (38MM) | MARKERS PER CARD ¾" (19MM)* |
|---|---|---|---|
| WSAS | A | 36 | 72 |
| WSBS...WSZS | B, C...Z | 36 | 72 |

*Order multiple 25 cards.*

** When **1¾"** length markers are required, replace the last **S** in the part number with a **D**. e.g., WCCM1S would become WCCM1D.*

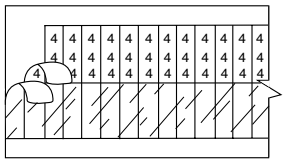


## Solid Numbers

| CAT. NO. | LEGEND | MARKERS PER CARD 1½" (38MM) | MARKERS PER CARD ¾" (19MM)* |
|---|---|---|---|
| WSZEROS | 0 | 36 | 72 |
| WS1S...WS99S | 1, 2...99 | 36 | 72 |
| WS100S | 100 | 25 | 50 |
| WS101S...WS600S | 101, 102...600 | 25 | — |

*Order multiple 25 cards.*

** When **1¾"** length markers are required, replace the last **S** in the part number with a **D**. e.g., WCCM1S would become WCCM1D.*



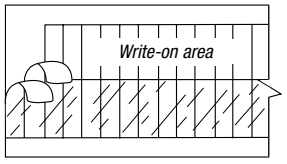
## Blank Write-On

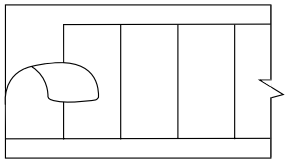
| CAT. NO. | WRITE-ON AREA (W X D) | MARKERS PER CARD 1½" (38MM) |
|---|---|---|
| WSBW14X112S | ¼" x 1½" | 36 |
| WSBW38X112S | ⅜" x 1½" | 26 |
| WSBW12X112S | ½" x 1½" | 18 |
| WSBW34X112S | ¾" x 1½" | 12 |
| WSBW1X112S | 1" x 1½" | 9 |
| WSBW112X112S | 1½" x 1½" | 6 |

| CAT. NO. | MARKER SIZE | MARKERS PER CARD |
|---|---|---|
| WCBW14X34D* | ¼" x ¾" | 72 |
| WCBW14X112S* | ¼" x 1½" | 36 |
| WCBW1132X112S* | 1 1/32" x 1½" | 26 |
| WCBW12X12D* | ½" x ½" | 54 |
| WCBW12X112S* | ½" x 1½" | 18 |
| WCBW58X112S* | ⅝" x 1½" | 14 |
| WCBW34X12D* | ¾" x ½" | 36 |
| WCBW34X214S* | ¾" x 2¼" | 12 |
| WCBW1X112S* | 1" x 1½" | 9 |
| WCBW112X112S* | 1½" x 1½" | 6 |

*Order multiple 25 cards.*

** Not self-laminating.*





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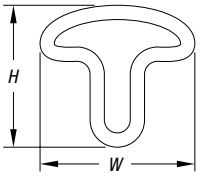
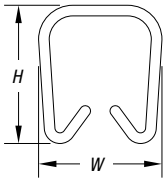
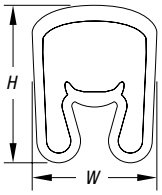
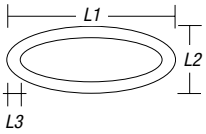
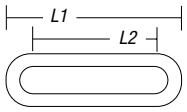
**United States**
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800.816.7809
Fax: 901.252.1354

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Tel: 888.862.3289

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# Sleeve Markers Features at a Glance



| | SMY Series | SMC Series | SMS/SMD/SMR Series | SMO Series | SMK Series |
|---|---|---|---|---|---|
| |  |  |  |  |  |
| **SHAPE** |  |  |  |  |  |
| **FOR MORE INFORMATION, SEE** | **p. D-16** | **p. D-16** | **p. D-17** | **p. D-18** | **p. D-18** |
| **STYLE** | Closed Y-shape | Open clip-on | Closed spring-action | Closed oval | Closed slotted |
| **APPLICATION** | Install on wires before connection | Install on wires before or after connection | Install on wires before connection | Install on wires before connection or on holders | Install on holders |
| **WIRE SIZE RANGE** | #24–#20 AWG | #18–#6 AWG | #22–#5 AWG | #10–#6 AWG for direct install; any size with holder* | Any size with holder* |
| **MARKER SIZE** | .130"H x .138"W | .142"H x .146"W to .264"H x .272"W | .142"H x .138"W to .650"H x .433"W | .445"H x .169"W | .445"H |
| **PACKAGING** | Reel | Strips | Strips, disc or reel | Disc | Bag |

** Holder fastens with cable ties around cable or pipe*

# Wire and Cable Marking

**SMC 197 - 4 - GRD**

**Series**
- **SMY** = Small Wire Sleeves, Y-Shape Profile
- **SMC** = Clip-On Sleeves

**Size for SMY**
- **079** = #24–#20 AWG

**Size for SMC**
- **118** = #22–#16 AWG
- **157** = #16–#14 AWG
- **197** = #12–#10 AWG
- **244** = #8–#6 AWG

**Color**
- **0** = Black
- **1** = Brown
- **2** = Red
- **3** = Orange
- **4** = Yellow*
- **5** = Green
- **6** = Blue
- **7** = Purple
- **8** = Gray
- **9** = White*

** Yellow and white are stock colors*

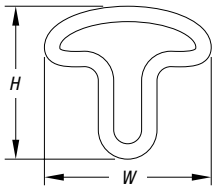
**Legend**
- **A-Z** = A-Z
- **0-9** = 0-9
- **EQ** = =
- **DH** = -
- **PL** = +
- **DT** = .
- **SH** = /
- **CO** = :
- **CM** = ,
- **GRD** = ⏚

*Example: The catalog number shown above is for yellow clip-on sleeve markers imprinted with the ground symbol for #12–#10 AWG wires.*

## SMY Series Sleeve Markers

- Closed combination marker
- Special Y-shaped profile covers a wide diameter range of small wires
- Large print surface enables excellent readability at normal reading distances



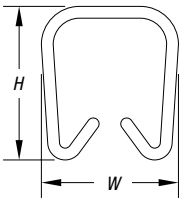



| CAT. NO. | COLOR | RECOMMENDED WIRE DIAMETER (IN.) | AWG | MARKER SIZE H x W (IN.) | STD. PKG. QTY. |
|---|---|---|---|---|---|
| **SMY079-4-**[ _ ] | Yellow | .039–.079 | #23–#20 | .130 x .138 | 1 reel of 1,000 markers |
| **SMY079-9-**[ _ ] | White | .039–.079 | #23–#20 | .130 x .138 | 1 reel of 1,000 markers |

## SMC Series Clip-On Sleeve Markers

- Open marker snaps easily onto already connected wires
- Barbed design holds markers securely in place






| CAT. NO. | COLOR | RECOMMENDED WIRE DIAMETER (IN.) | AWG | MARKER SIZE H x W (IN.) | STD. PKG. QTY. |
|---|---|---|---|---|---|
| **SMC118-4-[ _ ]** | Yellow | .094–.118 | #18–#16 | .142 x .146 | 10 strips of 20 markers |
| **SMC118-9-[ _ ]** | White | .094–.118 | #18–#16 | .142 x .146 | 10 strips of 20 markers |
| **SMC157-4-[ _ ]** | Yellow | .118–.157 | #16–#14 | .165 x .177 | 10 strips of 20 markers |
| **SMC157-9-[ _ ]** | White | .118–.157 | #16–#14 | .165 x .177 | 10 strips of 20 markers |
| **SMC197-4-[ _ ]** | Yellow | .157–.197 | #12–#10 | .217 x .224 | 10 strips of 20 markers |
| **SMC197-9-[ _ ]** | White | .157–.197 | #12–#10 | .217 x .224 | 10 strips of 20 markers |
| **SMC244-4-[ _ ]** | Yellow | .197–.244 | #8–#6 | .264 x .272 | 10 strips of 20 markers |
| **SMC244-9-[ _ ]** | White | .197–.244 | #8–#6 | .264 x .272 | 10 strips of 20 markers |



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## Wire and Cable Marking

**SMS 118 - 9 - 3**

| Series | |
|---|---|
| **SMS** = | Standard Sleeves |
| **SMD** = | Standard Sleeves on disc (500 pieces) |
| **SMR** = | Standard Sleeves on reel (1000 pieces) |

| Size | |
|---|---|
| **118** = | #22–#16 AWG |
| **157** = | #16–#14 AWG |
| **197** = | #12–#10 AWG |
| **244** = | #8–#6 AWG |
| **394** = | #13–#4 AWG |
| **630** = | #6–2/0 AWG |

| Color | | |
|---|---|---|
| **0** = Black | **5** = Green |
| **1** = Brown | **6** = Blue |
| **2** = Red | **7** = Purple |
| **3** = Orange | **8** = Gray |
| **4** = Yellow* | **9** = White* |

** Yellow and white are stock colors*

| Legend | |
|---|---|
| **A-Z** = A-Z | **DT** = . |
| **0-9** = 0-9 | **SH** = / |
| **EQ** = = | **CO** = : |
| **DH** = - | **CM** = , |
| **PL** = + | **GRD** = ⏚ |

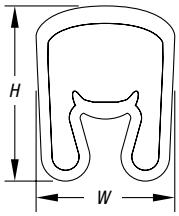
*Example: The catalog number shown above is for white sleeve markers in strips imprinted with the number 3 for #22–#16 AWG wire.*

## Closed Combination Sleeve Markers

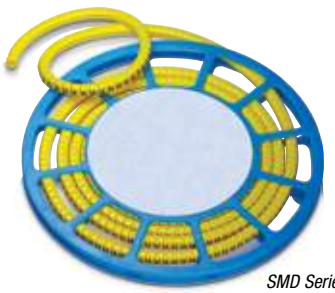
- Available in strips or bags (SMS Series), on compact disc (SMD Series) or on a reel (SMR Series)
- Permanent grip and adjustable marking sleeve for as-yet unconnected wires
- Unique profile with spring-action bellows covers wide wire diameter range
- Twist-protection for secure combination marking



*SMS Series*




| CAT. NO. | COLOR | RECOMMENDED WIRE DIAMETER (IN.) | AWG | MARKER SIZE H x W (IN.) | STD. PKG. QTY. |
|---|---|---|---|---|---|
| ***SMS Series Sleeve Markers in Strips or Bags*** | | | | | |
| **SMS118-4-[ _ ]** | Yellow | .051–.118 | #22–#16 | .142 x .138 | 10 strips of 25 markers |
| **SMS118-9-[ _ ]** | White | .051–.118 | #22–#16 | .142 x .138 | 10 strips of 25 markers |
| **SMS196-4-[ _ ]** | Yellow | .059–.197 | #16–#10 | .217 x .165 | 10 strips of 25 markers |
| **SMS196-9-[ _ ]** | White | .059–.197 | #16–#10 | .217 x .165 | 10 strips of 25 markers |
| **SMS394-4-[ _ ]** | Yellow | .157–.394 | #13–#4 | .374 x .260 | 10 strips of 25 markers |
| **SMS394-9-[ _ ]** | White | .157–.394 | #13–#4 | .374 x .260 | 10 strips of 25 markers |
| **SMS630-4-[ _ ]** | Yellow | .315–.630 | #5 | .650 x .433 | 1 bag of 20 loose markers |
| **SMS630-9-[ _ ]** | White | .315–.630 | #5 | .650 x .433 | 1 bag of 20 loose markers |
| ***SMD Series Sleeve Markers on a Compact Disc*** | | | | | |
| **SMD118-4-[ _ ]** | Yellow | .051–.118 | #22–#16 | .142 x .138 | 1 disc of 500 markers |
| **SMD118-9-[ _ ]** | White | .051–.118 | #22–#16 | .142 x .138 | 1 disc of 500 markers |
| **SMD196-4-[ _ ]** | Yellow | .059–.197 | #16–#10 | .217 x .165 | 1 disc of 500 markers |
| **SMD196-9-[ _ ]** | White | .059–.197 | #16–#10 | .217 x .165 | 1 disc of 500 markers |
| **SMD394-4-[ _ ]** | Yellow | .157–.394 | #13–#4 | .374 x .260 | 1 disc of 250 markers |
| **SMD394-9-[ _ ]** | White | .157–.394 | #13–#4 | .374 x .260 | 1 disc of 250 markers |
| **SMDP394-9-[ _ ]** | White | Use with RG6/RG59 coax | #12–#4 | — | 1 disc of 250 markers |
| ***SMR Series Sleeve Markers on a Reel*** | | | | | |
| **SMR118-4-[ _ ]** | Yellow | .051–.118 | #22–#16 | .142 x .138 | 1 reel of 1,000 markers |
| **SMR118-9-[ _ ]** | White | .051–.118 | #22–#16 | .142 x .138 | 1 reel of 1,000 markers |
| **SMR196-4-[ _ ]** | Yellow | .059–.197 | #16–#10 | .217 x .165 | 1 reel of 1,000 markers |
| **SMR196-9-[ _ ]** | White | .059–.197 | #16–#10 | .217 x .165 | 1 reel of 1,000 markers |



*SMD Series*



*SMR Series*

## Wire and Cable Marking

**SM0256 - 4 - A**

**Series**
- **SM0256** = Oval Sleeves for Large Cables #10–#6 AWG
- **SMK244** = Slot Sleeves for Use on Holders

**Color**
- **0** = Black
- **1** = Brown
- **2** = Red
- **3** = Orange
- **4** = Yellow*
- **5** = Green
- **6** = Blue
- **7** = Purple
- **8** = Gray
- **9** = White*

** Yellow and white are stock colors*

**Legend**
- **A-Z** = A-Z
- **0-9** = 0-9
- **EQ** = =
- **DH** = -
- **PL** = +
- **DT** = .
- **SH** = /
- **CO** = :
- **CM** = ,
- **GRD** = ⏚

*Example: The catalog number shown above is for yellow oval sleeve markers imprinted with the letter A for use directly on #10–#6 AWG cables or on SMOH or SMKH holders.*

# Combination markers for cable and pipe marking!

## SMO and SMK Series Sleeve Markers

- Made of cadmium-free and silicone-free rigid PVC
- SMK markers install quickly onto SMKH or SMOH holder, which fastens with cable ties around cable or pipe
- SMO markers can also be used with SMKH or SMOH holders or installed directly onto cable



### SMO and SMK Markers

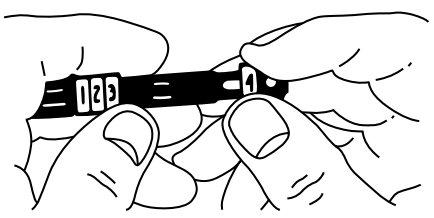
| CAT. NO. | COLOR | RECOMMENDED WIRE DIAMETER (IN.) | AWG | MARKER SIZE H X W (IN.) | STD. PKG. QTY. |
|---|---|---|---|---|---|
| **SM0256-4-[ _ ]** | Yellow | .147–.256 | #10–#6 | .445 x.169 | 1 disc of 500 markers |
| **SM0256-9-[ _ ]** | White | .197–.256 | #10–#6 | .445 x.169 | 1 disc of 500 markers |
| **SMK244-4-[ _ ]** | Yellow | Use with Holder | — | .445 H | 1 bag of 100 markers |
| **SMK244-9-[ _ ]** | White | Use with Holder | — | .445 H | 1 bag of 100 markers |

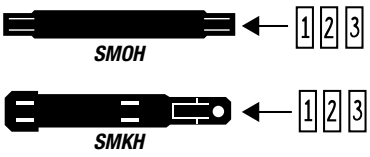
### SMOH and SMKH Holders

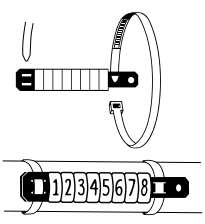
| CAT. NO. | COLOR | MAX. NO. OF SMO MARKERS | MAX. NO. OF SMK MARKERS | STD. PKG. QTY. |
|---|---|---|---|---|
| **SMOH07-0** | Black | 7 | 8 | 1 bag of 100 holders |
| **SMOH12-0** | Black | 12 | 13 | 1 bag of 100 holders |
| **SMOH18-0** | Black | 18 | 19 | 1 bag of 100 holders |
| **SMOH30-0** | Black | 30 | 31 | 1 bag of 100 holders |
| **SMKH10-0** | Black | 10 | 10 | 1 bag of 100 holders |
| **SMKH20-0*** | Black | 20 | 20 | 1 bag of 100 holders |

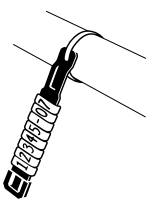
** Made of Polyamide 6/6 resistant to organic solvents with limited resistance against acids and alkalis. Recommended Ty-Rap® cable tie is Cat. No. TY524MX. Other colors available on request. Contact Tech Services for availability.*









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## Sleeve Marker Magazine Dispenser

- Feeds left or right
- Sturdy polystyrene construction

This magazine dispenser features two identical lids, linked by a hinge on one side. The outer sides of the lids have grooves to hold SMS Series Sleeve Marker Strips.



| CAT. NO. | DESCRIPTION | STD. PKG. QTY. |
|---|---|---|
| ***Dispenser with Application Tool Only (order sleeve markers separately)*** | | |
| **SMMDT118-E** | Dispenser and SMAT118 Tool for SMS118 Markers | 1 |
| **SMMDT196-E** | Dispenser and SMAT196 Tool for SMS196 Markers | 1 |
| ***Dispenser with Application Tool and 20 Strips of 25 SMS Sleeve Markers**** | | |
| **SMMDT118-9-0-9** | Dispenser with 500 White SMS118 Sleeve Markers and SMAT118 Tool | 1 |
| **SMMDT118-4-0-9** | Dispenser with 500 Yellow SMS118 Sleeve Markers and SMAT118 Tool | 1 |
| **SMMDT196-9-0-9** | Dispenser with 500 White SMS196 Sleeve Markers and SMAT196 Tool | 1 |
| **SMMDT196-4-0-9** | Dispenser with 500 Yellow SMS196 Sleeve Markers and SMAT196 Tool | 1 |

** Legend for markers included in magazine dispenser is 0–9.*

*For refills, order SMS118 (#22–#16 AWG) or SMS196 (#16–#10 AWG) sleeve markers (**page D-17**).*

## Sleeve Marker Application Tool

Made of Teflon® coated stainless steel, this application tool makes it easy to slide SMS Series sleeve markers onto cables.



| CAT. NO. | USE WITH SLEEVE MARKER | RECOMMENDED WIRE DIAMETER (IN.) | AWG | STD. PKG. QTY. |
|---|---|---|---|---|
| **SMAT118** | SMS118 | .051–.118 | #22–#16 | 5/bag |
| **SMAT196** | SMS196 | .098–.196 | #16–#10 | 5/bag |

*Teflon is a trademark of DuPont.*

## Sleeve Marker Installation Magazine

- Complete kit for onsite marking
- Each kit includes 20 wands of 25 markers
- Marker legends include 0–9, L, R, S, T, Ground, Neutral, Blue –, Red +, Gray Neutral



| CAT. NO. | DESCRIPTION | STD. PKG. QTY. |
|---|---|---|
| ***Kit with 20 Wands of 25 SMS Sleeve Markers*** | | |
| **SMMK118-4** | Kit with 500 Yellow SMS118 Markers for #22–#16 AWG Wire | 1 |
| **SMMK118-9** | Kit with 500 White SMS118 Markers for #22–#16 AWG Wire | 1 |
| **SMMK196-4** | Kit with 500 Yellow SMS196 Markers for #16–#10 AWG Wire | 1 |
| **SMMK196-9** | Kit with 500 White SMS196 Markers for #16–#10 AWG Wire | 1 |

*For refills, order SMS118 (#22–#16 AWG) or SMS196 (#16–#10 AWG) sleeve markers (**page D-17**).*

## Tags

# Stay safe and get into compliance — with EZCODE® Tags.

You don't need accidents happening on the job. To ensure greater workplace safety, choose the warning tags that hang tough in industrial environments and designate potential hazards. EZCODE® Tags enable easy identification and can help your facility meet OSHA regulations.

- Made of rigid vinyl with sturdy brass eyelets
- Withstand moisture, dirt and grease
- Write on with pencil, ballpoint pen or permanent marker
- Sold in packages of 25 identical tags
- Standard size is 3¼" x 6" for Accident Prevention, Lockout and Inspection and Control Tags
- Standard size is 3¼" x 5½" for Self-Laminating Tags

## Accident Prevention Tags

Choose among DANGER, CAUTION or NOTICE style tags to meet OSHA regulations and help prevent personnel injury or death. They're available in English or in bilingual English/Spanish versions. All of our Accident Prevention Tags meet OSHA requirements and current ANSI Z535.5 recommendations for color and header design. They ship with heavy-duty nylon ties for fastening.




**DANGER** indicates an immediate hazard with a strong potential for death or severe injury

**CAUTION** warns against potential hazards or unsafe practices

*For more information, see* ***pp. D-21–D-23***

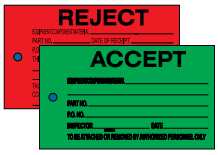
## Inspection and Control Tags

These tags indicate equipment safety inspection and material production status at a glance with their bold headers and easily understood color-coding system. They ship with heavy-duty nylon ties for fastening.




## Self-Laminating Tags

Add your own information to a pre-printed or blank tag and then seal it under a clear, protective cover. EZCODE® Self-Laminating Tags are weatherproof, moisture-resistant and tamperproof — your information can't be altered once the tag is sealed. They're made of rigid .010" plastic with a clear polyester self-laminating cover and ¼" brass eyelet.




## Lockout Tags

Provide critical safety information in accordance with current OSHA regulations with Lockout Tags. Designed for repeat use, they withstand up to 80 lbs. of pulling pressure and feature brass eyelets large enough (7/16" I.D.) to accommodate most locks.




*For more information, see* ***p. D-24***

## Custom Tags

Need tags you don't see in this catalog? No problem — we welcome custom orders. Please refer to the form on page **D-27** for guidance, and don't hesitate to contact our knowledgeable, helpful EZCODE® Technical Services representatives for ordering assistance.



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## Tags

# Avoid peril with danger tags.

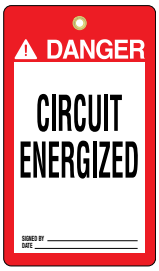
## Danger Tags

**APT - B C - XX**

**Language**
**Blank** = English Only
**B** = Bilingual Spanish/ English

**Legend**
Used in Special Circumstances

**Type**
**D** = Danger
**C** = Caution
**N** = Notice




| CAT. NO. | TAG SIZE |
|---|---|
| APT-D5A | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-D6A | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-D8A | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-D12A | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-D15A | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-D16A | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-D19A | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-D20A | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-D27A | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-D28A | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-D34A | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-D48A | 3¼" x 6" |

**Back of All Danger Tags**




***Note:*** *Order multiple 25 tags.*

## Tags

# Give others fair warning with easy-to-see caution tags.

## Caution Tags




| CAT. NO. | TAG SIZE |
|---|---|
| APT-C54 | 3¼" x 6" |



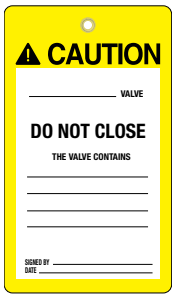

| CAT. NO. | TAG SIZE |
|---|---|
| APT-C55 | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-C56 | 3¼" x 6" |



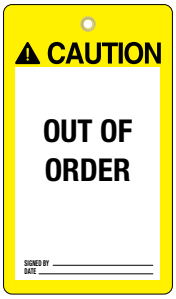

| CAT. NO. | TAG SIZE |
|---|---|
| APT-C57 | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-C58 | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-C59 | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-C60 | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-C61 | 3¼" x 6" |

**Back of All Caution Tags**




***Note:*** *Order multiple 25 tags.*



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## Tags

# Don't let language be a barrier to safety.

## Bilingual Tags




| CAT. NO. | TAG SIZE |
|---|---|
| APT-BD74 | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-BD75 | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-BD76 | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-BD79 | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-BD80 | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-BD81 | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-BD82 | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-BC77 | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| APT-BN78 | 3¼" x 6" |

**Back of All Danger Tags**




**Back of Caution Tag**




**Back of Notice Tag**




***Note:*** *Order multiple 25 tags.*

## Tags

# Greatly reduce the chance of an accident.

## Lockout Tags

Lockout tags meet current OSHA regulations and can prevent serious accidents from happening. When secured with nylon ties, lockout tags can withstand 80 lbs. of pulling pressure. They feature brass eyelets with an inner diameter of 7⁄16" — large to accommodate most locks. A write-on matte finish enables you to write on the tags with pens, pencils or permanent markers.




| CAT. NO. | TAG SIZE |
|---|---|
| LT-12C | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| LT-15C | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| LT-16C | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| LT-45A | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| LT-56A | 3¼" x 6" |



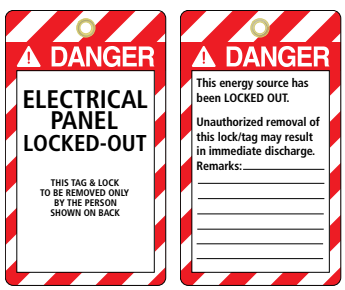

| CAT. NO. | TAG SIZE |
|---|---|
| LT-57A | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| LT-58A | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| LT-33 | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| LT-59A | 3¼" x 6" |




| CAT. NO. | TAG SIZE |
|---|---|
| LT-44 | 3¼" x 6" |

***Note:*** *Order multiple 25 tags.*



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## Tags

# Identify your cable bundles with permanent, Type 304 stainless steel imprinted tags applied with stainless steel cable ties.

## I.D. Tagging System

- After imprinting tags, simply slip a tie through slots in the tag and fasten with a cable tie installation tool
- Works with ¼" wide ties
- Type 304 Stainless Steel



| | WIDTH | | LENGTH | |
|---|---|---|---|---|
| CAT. NO. | IN. | MM | IN. | MM |
| SSID100 | .75 | 19.05 | 2.0 | 51 |
| SSID101 | 1.50 | .10 | 2.5 | 63 |
| SSID102 | .75 | 19.05 | 3.5 | 89 |

*Packaging Quantity: 100/box*

*.015" (.254mm) Thickness*

***Note:*** *Customized pre-embossed tags are available. Please consult Customer Service for details.*

*Add suffix (316) for 316 Stainless Steel.*



# Imprints Thomas & Betts stainless steel I.D. tags.

## I.D. Tag Imprinter

- Includes special tag holder that provides quick, accurate positioning of tag
- Comes with a 3⁄32" character imprinting wheel

| CAT. NO. | DESCRIPTION |
|---|---|
| WTID200 | I.D. Tag Imprinter |
| WTID281 | ⅛" Character Imprinting Wheel |
| WTID283 | 3⁄16" Character Imprinting Wheel |
| WTID290 | 3⁄32" Character Imprinting Wheel |

*Packaging Quantity: 1/box*



## Tags

# A complete range of individual letters, numbers and symbols!




## Stainless Steel I.D. Tags

- Slip these I.D. tags over carriers or strips (shown below)
- Attach to your cable or hose with a variety of Thomas & Betts Stainless Steel Cable Ties

| CAT. NO. | DESCRIPTION | LENGTH | WIDTH | STD. PKG. QTY. |
|---|---|---|---|---|
| ER010 | A | .445" | .375" | 100 |
| ER011 | B | .445" | .375" | 100 |
| ER012 | C | .445" | .375" | 100 |
| ER013 | D | .445" | .375" | 100 |
| ER014 | E | .445" | .375" | 100 |
| ER015 | F | .445" | .375" | 100 |
| ER016 | G | .445" | .375" | 100 |
| ER017 | H | .445" | .375" | 100 |
| ER018 | I | .445" | .375" | 100 |
| ER019 | J | .445" | .375" | 100 |
| ER020 | K | .445" | .375" | 100 |
| ER021 | L | .445" | .375" | 100 |
| ER022 | M | .445" | .375" | 100 |
| ER023 | N | .445" | .375" | 100 |
| ER024 | O | .445" | .375" | 100 |
| ER025 | P | .445" | .375" | 100 |
| ER026 | Q | .445" | .375" | 100 |
| ER027 | R | .445" | .375" | 100 |
| ER028 | S | .445" | .375" | 100 |
| ER029 | T | .445" | .375" | 100 |
| ER030 | U | .445" | .375" | 100 |

| CAT. NO. | DESCRIPTION | LENGTH | WIDTH | STD. PKG. QTY. |
|---|---|---|---|---|
| ER031 | V | .445" | .375" | 100 |
| ER032 | W | .445" | .375" | 100 |
| ER033 | Y | .445" | .375" | 100 |
| ER034 | Z | .445" | .375" | 100 |
| ER018 | 1 | .445" | .375" | 100 |
| ER037 | 2 | .445" | .375" | 100 |
| ER038 | 3 | .445" | .375" | 100 |
| ER039 | 4 | .445" | .375" | 100 |
| ER040 | 5 | .445" | .375" | 100 |
| ER041 | 6 | .445" | .375" | 100 |
| ER021 | 7 | .445" | .375" | 100 |
| ER042 | 8 | .445" | .375" | 100 |
| ER041 | 9 | .445" | .375" | 100 |
| ER024 | 0 | .445" | .375" | 100 |
| ER035 | Minus/Hyphen | .445" | .375" | 100 |
| ER036 | Blank | .445" | .375" | 100 |
| ER046 | Plus + | .445" | .375" | 100 |
| ER047 | Earth | .445" | .375" | 100 |
| ER048 | Sine | .445" | .375" | 100 |
| ER049 | Slash / | .445" | .375" | 100 |

*Character size .218"*
*Material .025" Type 316 Stainless Steel*

# Convenient and easy identification!




## Stainless Steel I.D. Tag Carriers/Strips

- Select from carriers and strips
- Tag kit contains 50 of each letter, number, symbol, carrier and strip in a handy carrying case

| CAT. NO. | DESCRIPTION | LENGTH | WIDTH | STD. PKG. QTY. |
|---|---|---|---|---|
| ER043 | 6 Character Carrier | 3.64" | .38" | 100 |
| ER044 | 10 Character Carrier | 5.14" | .38" | 100 |
| ER045 | 16 Character Carrier | 7.39" | .38" | 100 |
| ER050 | Short Strip | 4.25" | .38" | 100 |

| CAT. NO. | DESCRIPTION | LENGTH | WIDTH | STD. PKG. QTY. |
|---|---|---|---|---|
| ER051 | Medium Strip | 5.75" | .38" | 100 |
| ER052 | Long Strip | 8.0" | .38" | 100 |
| ER060 | I.D. Tag Kit | — | — | 1 |

*I.D. Tag Kit contains 50 of each letter, number, symbol, carrier and strip in a handy carrying case.*



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Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

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EZCODE®

# Custom Tag Express Order Form

This Custom Tag Order Form is for the convenience of you and your authorized Thomas & Betts Distributor. To help expedite your order, please copy this form and fax a completed copy to us. For questions about ordering Custom Tags, call Tech Services at **888-862-3289**.

***Fax your order to 901-252-1321.***




## Materials and Available Sizes:

***Please check the appropriate boxes for material and size.***

| MATERIAL | AVAILABLE SIZES | |
|---|---|---|
| ☐ Vinyl_____ | ☐ 3¼" x 6" | ☐ 3¼" x 5½" |
| ☐ Other_____ | ☐ Other_____ | |

## Tag Type:

***Please check one of the options below for English or Spanish language.***

E ☐ S ☐




Caution

E ☐ S ☐




Danger

E ☐ S ☐



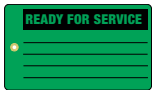

Lockout

E ☐ S ☐




Inspection and Material Control

E ☐ S ☐




Production Status

E ☐ S ☐



Blank (No Message)

## Quantity: ☐

No minimum order. Orders for 50+ tags are welcome. Call for delivery and additional volume discounts.

***Blank Tag color:***

☐ Dark Green ☐ Light Blue ☐ Orange
☐ Red ☐ White ☐ Yellow

## Message, Tag Front:

***Please print your message clearly in the box below.***

## Message, Tag Back:

***If none, leave blank.***

## Brass Grommets/Eyelets:

***Please check the appropriate boxes for number and size.***

| NUMBERS | AVAILABLE SIZES |
|---|---|
| ☐ 1 ☐ Other_____ | ☐ ¼" ☐ Other_____ |

## Protective Options:

| SELF-LAMINATING COVERS | UV PROTECTION |
|---|---|
| ☐ Front ☐ Back | ☐ |

## Additional Options:

☐ Bar Codes ☐ Carbon Set ☐ Perforation ☐ Sequential Numbering

***To discuss these options, call Tech Services at 888-862-3289.***

### Distributor Billing Location:

Distributor Name: _____
Distributor Address: _____
_____
P.O. Number: _____
Contact Name: _____
Phone Number: _____
Fax Number: _____

### Shipping Location:

Your Name/Title: _____
Company Name: _____
Attn: _____
Address: _____
City:_____ State: _____ Zip: _____
Phone/Fax Number:_____
P.O. Number: _____

## Labels

# Stick to safety with EZCODE® Labels.

All kinds of dangers exist with high-voltage equipment and industrial machinery. Warn your employees of hazards and keep them safe with EZCODE® Labels. Place the self-adhesive labels where they need to be seen for on-the-spot identification and instruction and to help you comply with OSHA and NFPA regulations.

### Arc Flash Labels

Avoid accidents and OSHA fines by clearly marking electrical equipment with potential for arc flash hazards with EZCODE® Arc Flash Labels. They're designed to meet the latest ANSI standards for safety labels and help you comply with National Electrical Code® standards.

- Made of pressure-sensitive vinyl with aggressive acrylic adhesive




### Conduit and Voltage Markers

Positively identify voltage on conduit, load centers, circuit breakers, switches and other electrical equipment to allow faster, safer repair.

- Made from rugged, self-sticking vinyl — adheres to most surfaces
- High-contrast black type on safety-orange background for visibility
- For more information, see **p. D-29**




### Electrical Safety Labels

"Mr. Ouch" NEMA Safety Labels use both words and pictures to warn children of the dangers of playing around pad-mounted transformers.

- Made from tamper-resistant film with permanent acrylic adhesive
- Weatherproof and fade-resistant
- For more information, see **p. D-30**



### Lockout Labels

Compliant with OSHA lockout/tagout requirements, EZCODE® Lockout Labels are design to help you develop, implement and update a lockout/tagout program for your facility.

- Made from pressure-sensitive vinyl with polyester overlaminate
- Adhere to almost any clean, dry surface — rough or smooth
- Use in indoor or outdoor applications



### Pictogram Labels

Use these labels featuring universal symbols to communicate hazards to anyone, regardless of literacy or language.

- Made from self-adhesive vinyl
- For more information, see **p. D-34**



### Machine Warning Labels

Machine Warning Labels help you prevent injuries and reduce downtime. They also comply with ASME (ANSI Z535) and OSHA (1910.145) requirements to use safety and compliance signs to indicate hazards that may lead to accidents, injury and property damage.




**DANGER** indicates an immediate hazard with a strong potential for death or severe injury

**WARNING** indicates hazardous situations that may result in death or severe injury

**CAUTION** warns against potential hazards or unsafe practices

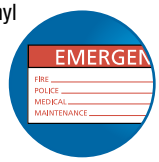
- Made from pressure-sensitive vinyl with polyester overlaminate and permanent acrylic adhesive
- Use indoors or outdoors — temperature range of -40° F to 180° F
- 5-year durability




### Write-On Control Markers

A quick and simple way to keep on-the-spot records, write-on control markers are easy to carry and dispense as needed.

- Made from pressure-sensitive, imprintable matte vinyl
- Adhere to clean, flat, dry, smooth surfaces
- Resists grease, oil and moisture
- Accepts pen, pencil, felt-tip marker, typewriter or rubber stamp
- For more information, see **pp. D-31–D-32**




### Industrial Markers

Individual letters and numbers are ideal for fast, general-purpose marking of bins, shelves, poles, panels, switches and equipment.

- Made from plastic-coated vinyl cloth with high-tack adhesive
- Rated for indoor use
- Available in 4 sizes with character height ranging from 5⁄16" to 2"
- Reflective letters and numbers also available for high visibility in dark or dimly lit areas
- For more information, see **p. D-33**




### Custom Labels

Need labels you don't see in this catalog? No problem — we welcome custom orders. Please refer to the form on page **D-35** for guidance, and don't hesitate to contact our knowledgeable, helpful EZCODE® Technical Services representatives for ordering assistance.



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# Identify electrical systems, including load centers, circuit breakers, switches and any other vital electrical equipment!

## Vinyl Conduit and Voltage Markers

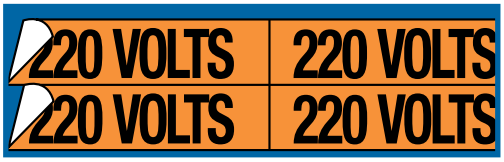
- Helps prevent mistakes and trial-and-error searching during electrical service work
- Manufactured from rugged, self-sticking vinyl with high-contrast black printing on safety-orange background
- OSHA compliant



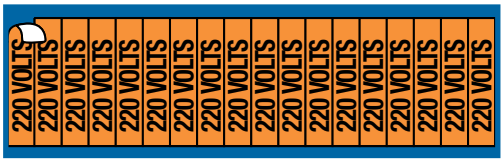




***STYLE A:*** *2¼" x 9"*
*(1 marker per card) Character Height 1⅞"*




***STYLE B:*** *1⅛" x 4½"*
*(4 markers per card) Character Height ⅞"*




***STYLE C:*** *2¼" x ½"*
*(18 markers per card) Character Height 5⁄16"*

| STYLE A 2¼" X 9" | STYLE B 1⅛" X 4½" | STYLE C 2¼" X ½" | LEGEND |
|---|---|---|---|
| WJT-5010 | WDT-5010 | WAT-5010 | 110 Volts |
| WJT-5011 | WDT-5011 | WAT-5011 | 115 Volts |
| WJT-5012 | WDT-5012 | WAT-5012 | 120 Volts |
| WJT-5045 | WDT-5045 | WAT-5045 | 120/208 Volts |
| WJT-5013 | WDT-5013 | WAT-5013 | 208 Volts |
| WJT-5014 | WDT-5014 | WAT-5014 | 220 Volts |
| WJT-5015 | WDT-5015 | WAT-5015 | 230 Volts |
| WJT-5016 | WDT-5016 | WAT-5016 | 240 Volts |
| WJT-5017 | WDT-5017 | WAT-5017 | 250 Volts |
| WJT-5018 | WDT-5018 | WAT-5018 | 277 Volts |
| WJT-5046 | WDT-5046 | WAT-5046 | 277/480 Volts |
| WJT-5057 | WDT-5057 | WAT-5057 | 380 Volts |
| WJT-5044 | WDT-5044 | WAT-5044 | 415 Volts |
| WJT-5019 | WDT-5019 | WAT-5019 | 440 Volts |
| WJT-5020 | WDT-5020 | WAT-5020 | 460 Volts |
| WJT-5021 | WDT-5021 | WAT-5021 | 480 Volts |
| WJT-5022 | WDT-5022 | WAT-5022 | 550 Volts |
| WJT-5023 | WDT-5023 | WAT-5023 | 600 Volts |
| WJT-5024 | WDT-5024 | WAT-5024 | 2,200 Volts |
| WJT-5025 | WDT-5025 | WAT-5025 | 2,300 Volts |
| WJT-5026 | WDT-5026 | WAT-5026 | 2,400 Volts |
| WJT-5027 | WDT-5027 | WAT-5027 | 4,160 Volts |
| WJT-5028 | WDT-5028 | WAT-5028 | 4,800 Volts |
| WJT-5058 | WDT-5058 | WAT-5058 | 5,000 Volts |
| WJT-5029 | WDT-5029 | WAT-5029 | 6,900 Volts |

| STYLE A 2¼" X 9" | STYLE B 1⅛" X 4½" | STYLE C 2¼" X ½" | LEGEND |
|---|---|---|---|
| WJT-5030 | WDT-5030 | WAT-5030 | 7,200 Volts |
| WJT-5059 | WDT-5059 | WAT-5059 | 12,000 Volts |
| WJT-5060 | WDT-5060 | WAT-5060 | 13,000 Volts |
| WJT-5047 | WDT-5047 | WAT-5047 | 13,200 Volts |
| WJT-5031 | WDT-5031 | WAT-5031 | 13,800 Volts |
| WJT-5032 | WDT-5032 | WAT-5032 | AC |
| WJT-5043 | WDT-5043 | WAT-5043 | Air Conditioning |
| WJT-5052 | WDT-5052 | WAT-5052 | Circuit Breaker |
| WJT-5051 | WDT-5051 | WAT-5051 | Circuit #___ |
| WJT-5038 | WDT-5038 | WAT-5038 | DC |
| WJT-5050 | WDT-5050 | WAT-5050 | Electric Out of Service |
| WJT-5033 | WDT-5033 | WAT-5033 | Emergency Service |
| WJT-5039 | WDT-5039 | WAT-5039 | Exit Lights |
| WJT-5040 | WDT-5040 | WAT-5040 | Fire Alarm |
| WJT-5053 | WDT-5053 | WAT-5053 | Fuse Box |
| WJT-5041 | WDT-5041 | WAT-5041 | Heating Circuit |
| WJT-5037 | WDT-5037 | WAT-5037 | Lights |
| WJT-5042 | WDT-5042 | WAT-5042 | Light & Power |
| WJT-5048 | WDT-5048 | WAT-5048 | On/Off |
| WJT-5036 | WDT-5036 | WAT-5036 | Power |
| WJT-5034 | WDT-5034 | WAT-5034 | Single Phase |
| WJT-5055 | WDT-5055 | WAT-5055 | Spare |
| WJT-5056 | WDT-5056 | WAT-5056 | Telephone |
| WJT-5035 | WDT-5035 | WAT-5035 | Three Phase |
| WJT-5054 | WDT-5054 | WAT-5054 | ___ Volts |

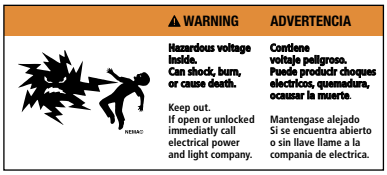
***Note:*** *Order multiple 25 cards.*

# Labels

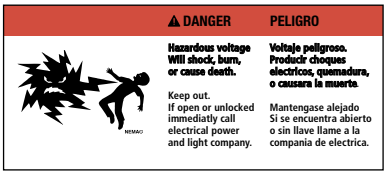
## "Mr. Ouch" NEMA Safety Labels

- Use on pad-mounted transformers located in public areas
- Meets NEMA and UL standards
- Made of tamper-resistant film to prevent defacing and vandalism
- Permanent pressure-sensitive adhesive makes removal virtually impossible
- Orange WARNING label goes on outside of enclosure
- Red DANGER label goes on inside of enclosure

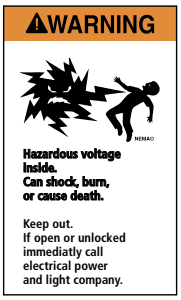
***Note:*** *Order multiple 25 labels.*



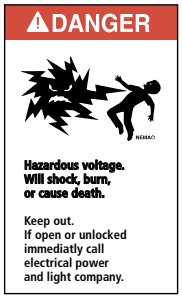

| CAT. NO. | LABEL SIZE |
|---|---|
| WUT-0368 | 4½" x 10¾" |




| CAT. NO. | LABEL SIZE |
|---|---|
| WUT-0369 | 4½" x 10¾" |




| CAT. NO. | LABEL SIZE |
|---|---|
| WUT-0366 | 4½" x 8" |




| CAT. NO. | LABEL SIZE |
|---|---|
| WUT-0367 | 4½" x 8" |

## Self-Sticking Polyester Safety Labels




| CAT. NO. | LABEL SIZE |
|---|---|
| WJA-1100 | 2¼" x 9" |
| WQA-1100 | 5" x 14" |




| CAT. NO. | LABEL SIZE |
|---|---|
| WJA-0076 | 2¼" x 9" |
| WQA-0076 | 5" x 14" |




| CAT. NO. | LABEL SIZE |
|---|---|
| LB86877 | 3½" x 5" |




| CAT. NO. | LABEL SIZE |
|---|---|
| LB86871 | 3½" x 5" |




| CAT. NO. | LABEL SIZE |
|---|---|
| LB86860 | 3½" x 5" |




| CAT. NO. | LABEL SIZE |
|---|---|
| LB86861 | 3½" x 5" |



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Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

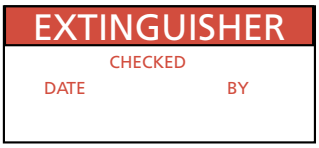
www.tnb.com

## Labels

# The handy markers for frequent identification jobs.

# Write-On Control Markers

- A quick and easy way to keep on-the-spot records
- Easy to carry and dispense as needed
- Made from pressure-sensitive, imprintable matte vinyl
- Adheres to clean, flat, dry, smooth surfaces
- Resists grease, oil and moisture
- Accepts marking by pen, pencil, felt-tip marker, typewriter or rubber stamp
- Standard marker size is 1½"W x ⅝"H with 14 markers per card
- Some markers available in extra-large 2½"W x 1"H size with 9 markers per card




| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP16 | 1½" x ⅝" | 14 |



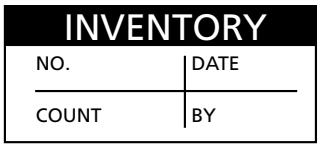

| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP19 | 1½" x ⅝" | 14 |



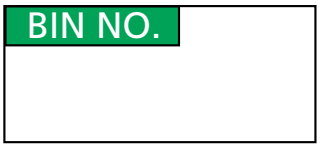

| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP6 | 1½" x ⅝" | 14 |




| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP9 | 1½" x ⅝" | 14 |



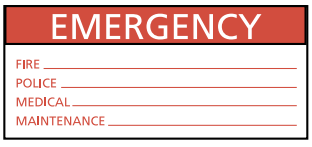

| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP20 | 1½" x ⅝" | 14 |



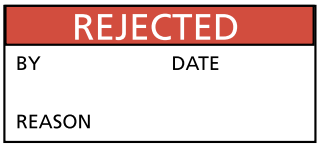

| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP3 | 1½" x ⅝" | 14 |



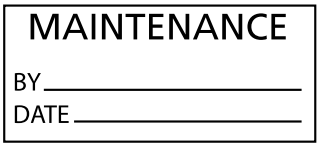

| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP22 | 1½" x ⅝" | 14 |




| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP7 | 2½" x 1" | 9 |



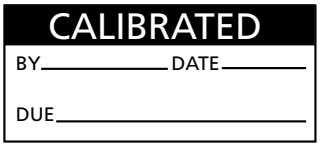

| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP24 | 2½" x 1" | 9 |



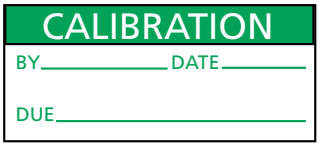

| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP21 | 2½" x 1" | 9 |




| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP5 | 1½" x ⅝" | 14 |




| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP1 | 1½" x ⅝" | 14 |




| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP26 | 1½" x ⅝" | 14 |

***Note:*** *Order multiple 25 cards.*

## Labels

# Write-On Control Markers *(continued)*




| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP2 | 1½" x ⅝" | 14 |



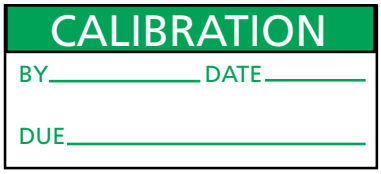

| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP18 | 1½" x ⅝" | 14 |




| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP4 | 1½" x ⅝" | 14 |




| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP25 | 1½" x ⅝" | 14 |




| CAT. NO. | MARKERS SIZE | MARKERS PER CARD |
|---|---|---|
| WCMP75 | 2¾" x 1" | 9 |

***Note:*** *Order multiple 25 cards.*

# Stay ready for quality control!

## Polyolefin Pocket Pack Markers

- Easy to carry — marker books fit in shirt pocket
- Easy to use — just peel the marker from the page
- Clean and convenient — markers are tabbed so fingers never touch the adhesive




| CAT. NO. | LEGEND | LABELS PER BOOK |
|---|---|---|
| WTMP-1B | CALIBRATED (black) | 240 |
| WTMP-2B | CERTIFICATION (black) | 240 |
| WTMP-3B | MAINTENANCE (blue) | 240 |
| WTMP-4B | REJECTED (red) | 240 |
| WTMP-5B | ACCEPTED (green) | 240 |
| WTMP-6B | HOLD (red) | 240 |
| WTMP-7B | RETURN TO VENDOR (orange) | 240 |
| WTMP-8B | REWORK (black) | 240 |
| WTMP-9B | HOLD FOR INSPECTION (blue) | 240 |
| WTMP-11B | CAUTION (black) | 240 |
| WTMP-16B | DATE INSTALLED (black) | 240 |
| WTMP-18B | DUE FOR INSPECTION (orange) | 240 |
| WTMP-19B | DO NOT USE AFTER (red) | 240 |
| WTMP-20B | INSPECTED (black) | 240 |
| WTMP-21B | BLANK HEADING | 240 |
| WTMP-22B | REPAIRED BY (orange) | 240 |
| WTMP-24B | SCRAPPED (orange) | 240 |
| WTMP-25B | TESTED (green) | 240 |
| WTMP-26B | CALIBRATION (green) | 240 |
| WTMP-52B | PROPERTY TAG (black) | 240 |
| WTMP-53B | SERIAL NO. (black) | 240 |
| WTMP-55B | TOOL NO. (blue) | 240 |

*15 pages per book, 16 markers per page. Each label is 1½" x ⅝". Each book contains 240 identical labels.*

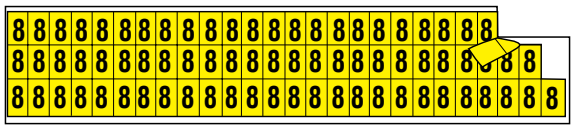
***Note:*** *Order multiple 10 books.*

## Labels

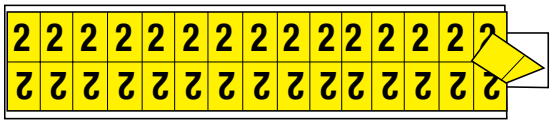
# Easy to read and available in a variety of configurations!

## Numbers and Letters

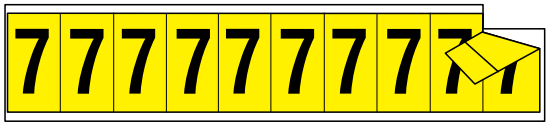
- High-contrast, self-sticking, vinyl cloth markers make numbering and coding quick and easy
- Rated for indoor use
- Select character heights ranging from 5⁄16" to 3¾"



*Series 003*
*78 markers per card*
*Marker Size: ⅜" x ½" Character Height: 5⁄16"*



*Series 063*
*32 markers per card*
*Marker Size: 9⁄16" x ¾" Character Height: ⅝"*



*Series 100*
*10 markers per card*
*Marker Size: ⅞" x 1½" Character Height: 1"*



*Series 200*
*10 markers per card*
*Marker Size: ⅞" x 2¼" Character Height: 2"*

| DESCRIPTION | LEGEND | SERIES 003 | SERIES 063 | SERIES 100 | SERIES 200 |
|---|---|---|---|---|---|
| Letters | A–Z | **WCNL003A...WCNL003Z** | **WCNL063A...WCNL063Z** | **WCNL100A...WCNL100Z** | **WCNL200A...WCNL200Z** |
| Numbers | 0 | **WCNL003ZERO** | **WCNL063ZERO** | **WCNL100ZERO** | **WCNL200ZERO** |
| Numbers | 1–9 | **WCNL0031...WCNL0039** | **WCNL0631...WCNL0639** | **WCNL1001...WCNL1009** | **WCNL2001...WCNL2009** |
| Letters in Sequence | A–Z | **WCNL003AZ** | **WCNL063AZ** | N/A | N/A |
| Letters in Sequence | A–J | N/A | N/A | **WCNL100AJ** | **WCNL200AJ** |
| Letters in Sequence | K–T | N/A | N/A | **WCNL100KT** | **WCNL200KT** |
| Letters in Sequence | U–Z | N/A | N/A | **WCNL100UZ** | **WCNL200UZ** |
| Numbers in Sequence | 0–9 | **WCNL00309** | **WCNL06309** | **WCNL10009** | **WCNL20009** |

***Note:*** *Order multiple 5 cards.*

## Reflective Industrial Markers

- High visibility markers for use in dimly lit or dark areas
- Pressure-sensitive adhesive
- Apply at temperatures above 40° F




| CAT. NO. | SIZE | CHARACTER HEIGHT | MARKER SIZE (W X H) |
|---|---|---|---|
| **WRSUM*** | Small | 1½" | 1⅜" x 1⅞" |
| **WRUM*** | Standard | 2½" | 1¾" x 2⅞" |
| **WRLUM*** | Large | 3¾" | 2⅞" x 4⅝" |

** Add desired letter **(A–Z)** or number **(0–9)** in place of asterisk to complete CAT. NO. Example: **WRSUM1, WRSUM2, WRSUMA,** etc.*

***Note:*** *Order multiple 25 cards.*

## Labels

# Don't let words get in the way of hazard information.

## Pictogram Labels

- Universal symbols communicate hazards to anyone, regardless of literacy or language
- Made from self-adhesive vinyl
- Label size is 2" x 2"



| CAT. NO. | LABEL SIZE |
|---|---|
| PTG-100 | 2" x 2" |



| CAT. NO. | LABEL SIZE |
|---|---|
| PTG-101 | 2" x 2" |



| CAT. NO. | LABEL SIZE |
|---|---|
| PTG-102 | 2" x 2" |



| CAT. NO. | LABEL SIZE |
|---|---|
| PTG-103 | 2" x 2" |



| CAT. NO. | LABEL SIZE |
|---|---|
| PTG-104 | 2" x 2" |



| CAT. NO. | LABEL SIZE |
|---|---|
| PTG-105 | 2" x 2" |



| CAT. NO. | LABEL SIZE |
|---|---|
| PTG-106 | 2" x 2" |



| CAT. NO. | LABEL SIZE |
|---|---|
| PTG-107 | 2" x 2" |



| CAT. NO. | LABEL SIZE |
|---|---|
| PTG-108 | 2" x 2" |



| CAT. NO. | LABEL SIZE |
|---|---|
| PTG-109 | 2" x 2" |

***Note:*** *Order multiple 100 labels.*



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Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

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# EZCODE®

# Custom Label Express Order Form



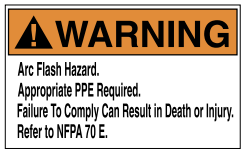

This Custom Label Order Form is for the convenience of you and your authorized Thomas & Betts Distributor. To help expedite your order, please copy this form and fax a completed copy to us. For questions about ordering Custom Labels, call Technical Services at **888-862-3289**.

**Fax your order to 901-252-1321.**

## Label Types and Available Sizes:

***Please check the appropriate boxes to choose English or Spanish and the size.***

E / S




Arc Flash

☐ 3½" x 5" ☐ 3½" x 6" ☐ 3½" x 10" ☐ 5" x 7"

E / S




Electrical Safety

☐ 2¼" x 4½" ☐ 2¼" x 9" ☐ 3½" x 5" ☐ 4½" x 8" ☐ 4½" x 10¾" ☐ 5" x 14"

E / S




Lockout

☐ 2¼" x 4 ½" ☐ 3½" x 5"

E / S



Padlock

☐ ¾" x 5"

E / S




Machine Warning

☐ 3½" x 5"

## Legend

***Please print your message clearly in the box below.***

## Materials:

***Please check one box.***

☐ Vinyl

☐ Other_____

## Quantity:

No minimum order. Orders for 50+ labels are welcome. Call for delivery and additional volume discounts.

☐

## High-Volume Blank Printer Labels:

***Please complete all portions.***

**Your Printer Technology**

- TT Thermal
- LP Laser
- DM Dot Matrix
- JT Ink Jet
- EZ Portable

**Label Size**

- Use fractional inches, not decimals.
- For labels on a cassette, check the C box to indicate continuous measurement in feet and indicate length next to the box.

☐ Width ☐ Height

C ☐ Length _____ft.

**Color**

☐ White

☐ Yellow

**Label Material**

- SL Self-Laminating
- C Vinyl Cloth
- P Polyester
- N Nylon
- HS Heat Shrink
- PM Polymide

## Quantity:

No minimum order. Orders for 50+ labels are welcome. Call for delivery and additional volume discounts.

☐

**Distributor Billing Location:**

Distributor Name: _____

Distributor Address: _____

_____

P.O. Number: _____

Contact Name: _____

Phone Number: _____

Fax Number: _____

**Shipping Location:**

Your Name/Title: _____

Company Name: _____

Attn: _____

Address: _____

City:_____ State: _____ Zip: _____

Phone/Fax Number:_____

P.O. Number: _____

## Signs

# Prevent injuries and reduce downtime with EZCODE® safety and compliance signs.

### Industry Standards

ASME (ANSI Z535) and OSHA (1910.145 require the use of safety and compliance signs to indicate hazards that may lead to accidents, injury and property damage. EZCODE® signs comply with all current OSHA and ANSI standards and will help you create a safer workplace for both employees and visitors.

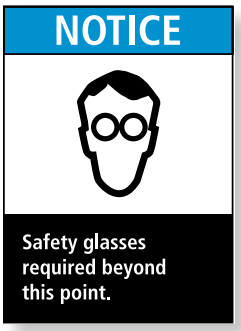
## Guide to Headers

⚠ DANGER



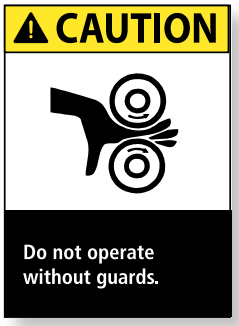

**DANGER** indicates an immediate hazard with a strong potential for death or severe injury

NOTICE



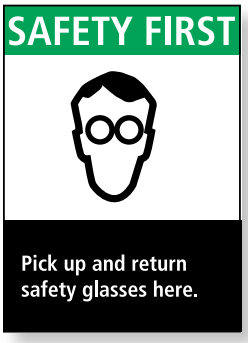

**NOTICE** provides general information to prevent confusion

⚠ CAUTION




**CAUTION** warns against potential hazards or unsafe practices

SAFETY FIRST




**SAFETY FIRST** offers information about health, housekeeping and general safety



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# Signs

## Materials

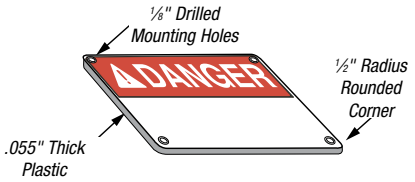
### Self-Sticking (SS)

- Made from pressure-sensitive vinyl with permanent acrylic adhesive
- Indoor and outdoor applications
- Temperature range of -40° F to 180° F
- 2- to 3-year durability




### Plastic (PL)

- Made from durable linear polyethylene
- Fade- and crack-resistant
- Indoor and outdoor applications
- Temperature range of -10° F to 176° F
- 5- to 8-year durability




### Aluminum (AL)

- Made from aluminum with baked finish and screen-printed graphics
- Indoor and outdoor applications
- 8- to 10-year durability




## Sizes

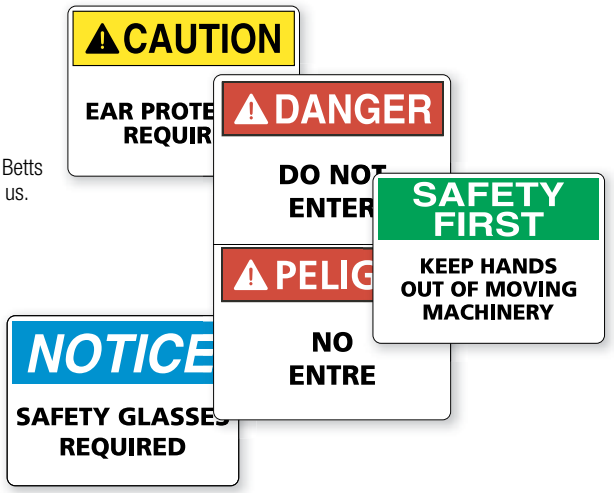
- Most signs available in your choice of 7" x 10" or 10" x 14" sizes
- Bilingual signs available in larger 10" x 14" size only

## Custom Signs

Need signs you don't see in this catalog? No problem — we welcome custom orders. Please refer to the form on page **D-38** for guidance, and don't hesitate to contact our knowledgeable, helpful EZCODE® Technical Services representatives for ordering assistance.

EZCODE®

# Custom Sign Express Order Form




This Custom Sign Order Form is for the convenience of you and your authorized Thomas & Betts Distributor. To help expedite your order, please copy this form and fax a completed copy to us. For questions about ordering Custom Signs, call Technical Services at **888-862-3289**.

Fax your order to **901-252-1321**.

## Materials and Available Sizes:

***Please check the appropriate boxe for material and size***

| MATERIAL | AVAILABLE SIZES |
|---|---|
| ☐ Aluminum | ☐ 7" x 10" ☐ 10" x 14" |
| ☐ Plastic | ☐ 7" x 10" ☐ 10" x 14" |
| ☐ Self-Sticking | ☐ 3" x 5" ☐ 5" x 7" ☐ 7" x 10" ☐ 9" x 12" ☐ 10" x 14" |

## Quantity:

No minimum order. Orders for 50+ labels are welcome. Call for delivery and additional volume discounts. ☐

## Header/Color:

***Please check the appropriate box to choose English or Spanish.***

E ☐ S ☐ DANGER / PELIGRO — Red and Black Header on White

E ☐ S ☐ NOTICE / AVISO — Blue Header on White

E ☐ S ☐ CAUTION / PRECAUCION — Yellow and Black Header on White

E ☐ S ☐ SAFETY FIRST / SEGURIDAD PRIMERO — Green Header on White

E ☐ S ☐ WARNING / ADVERTENCIA — Orange and Black Header on White

☐ **NO HEADER colors listed to the right**

☐ Black on White ☐ Black on Yellow ☐ Red on White ☐ Magenta on Yellow

☐ Black on Orange ☐ Green on White ☐ Blue on White

## Legend

***Please print your message clearly in the box below.***

☐ Lay out best way ☐ Layout exactly as shown below

## Pictograms:

A pictogram can be included on your custom sign, in black, at no additional charge. ***Please indicate pictogram number below.***

1 Ear Protection, 2 Eye Protection, 3 Head Protection, 4 Slip, 5 Respirator, 6 Confined Space, 7 Lockout/Tagout

8 Pinch, 9 Cut/Sever, 10 Electrical, 11 Electrical, 12 Flammable, 13 Eye Wash Station, 14 Stop, 15 No Parking

16 Keep Out, 17 No Smoking, 18 Fire Extinguisher

### Distributor Billing Location:

Distributor Name: _____

Distributor Address: _____

_____

P.O. Number: _____

Contact Name: _____

Phone Number: _____

Fax Number: _____

### Shipping Location:

Your Name/Title: _____

Company Name: _____

Attn: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone/Fax Number: _____

P.O. Number: _____

## Warning Tapes

# Save time and money over painting!

### Color-Coded Vinyl I.D. Tape

- Effectively warns or identifies equipment, traffic and housekeeping items
- Choose from different widths
- Many colors available



| 1" WIDE CAT. NO. | 2" WIDE CAT. NO. | 3" WIDE CAT. NO. | 4" WIDE CAT. NO. | COLOR |
|---|---|---|---|---|
| AA-1121 | BA-1121 | CA-1121 | NA-1121 | Silver |
| AA-1122 | BA-1122 | CA-1122 | NA-1122 | Black |
| AA-1123 | BA-1123 | CA-1123 | NA-1123 | Blue |
| AA-1124 | BA-1124 | CA-1124 | NA-1124 | Brown |
| AA-1125 | BA-1125 | CA-1125 | NA-1125 | Green |
| AA-1126 | BA-1126 | CA-1126 | NA-1126 | Orange |
| AA-1127 | BA-1127 | CA-1127 | NA-1127 | Purple |
| AA-1128 | BA-1128 | CA-1128 | NA-1128 | Red |
| AA-1129 | BA-1129 | CA-1129 | NA-1129 | White |
| AA-1130 | BA-1130 | CA-1130 | NA-1130 | Yellow |
| AA-1131 | BA-1131 | CA-1131 | NA-1131 | Clear |

*60 yards per roll*

### Reflective Roll Tape




| 2" WIDE CAT. NO. | 3" WIDE CAT. NO. | 4" WIDE CAT. NO. | COLOR |
|---|---|---|---|
| AZ-3108 | BZ-3108 | CZ-3108 | Black & Yellow Stripe |
| AZ-3110 | BZ-3110 | CZ-3110 | Red & White Stripe |

*5 yards per roll.*

### Self-Sticking Vinyl Cloth Tape




| 2" WIDE CAT. NO. | 3" WIDE CAT. NO. | 4" WIDE CAT. NO. | COLOR |
|---|---|---|---|
| AZ-1100 | BZ-1100 | CZ-1100 | Black & Yellow Stripe |
| AZ-1102 | BZ-1102 | CZ-1102 | Red & White Stripe |
| AZ-1303 | BZ-1303 | CZ-1303 | Magenta & Yellow Stripe & Radiation Symbol |

*30 yards per roll.*

### Laminated Vinyl Tape




| 2" WIDE CAT. NO. | 3" WIDE CAT. NO. | 4" WIDE CAT. NO. | COLOR |
|---|---|---|---|
| AZ-2104 | BZ-2104 | CZ-2104 | Black & Yellow Stripe |
| AZ-2106 | BZ-2104 | CZ-2104 | Red & White Stripe |

*18 yards per roll.*

### 2-Sided Foam Mounting Tape

| CAT. NO. | DESCRIPTION |
|---|---|
| NA-0365 | 2-Sided Foam Mounting Tape |

*9 yards per roll.*

## Warning Tapes

# Mark off hazardous or off-limit areas quickly and easily!
# Protect-A-Line™ Barricade and Burial Tapes




### Barricade Tape

- Inexpensive and easy to handle
- Convenient and reusable
- For indoor and outdoor use




### Buried Utility Tape

- Protect against costly dig-ins
- Place 1 to 1½ feet below the ground surface directly above the pipeline or cable below
- Bright, fade-resistant colors warn equipment operators that a vital pipeline or cable is buried below — before damage occurs
- Black text on a bright background




### Foil-Backed Detectable Buried Utility Tape

- Features a metallic backing designed to be detectable under normal earthen surfaces up to 18" with common metal detectors
- Simple and fast method for relocating lines, cables and conduit for future renovation
- Black text on a bright background

| CAT. NO. | LEGEND | COLOR |
|---|---|---|
| ***Surveyors Tape 1½" x 1,000'*** | | |
| **NA-0200** | No Legend, No Printing | Yellow |
| **NA-0201** | No Legend, No Printing | Red |
| **NA-0202** | No Legend, No Printing | Green |
| **NA-0203** | No Legend, No Printing | Blue |
| **NA-0204** | No Legend, No Printing | Orange |
| ***Barricade Tape 3" x 1,000'*** | | |
| **NA-0250** | Caution | Yellow |
| **NA-0253** | Caution Construction Area | Yellow |
| **NA-0254** | Caution Do Not Enter | Yellow |
| **NA-0256** | Caution Hard Hat Area | Yellow |
| **NA-0257** | Caution High Voltage | Yellow |
| **NA-0258** | Caution Men Working | Yellow |
| **NA-0261** | Caution Open Trench | Yellow |
| **NA-0267** | Danger, on Stripes | Red & White |
| ***Buried Utility Tape 3" x 1,000'*** | | |
| **NA-0600** | Electric Line | Red |
| **NA-0608** | Electric Line | Yellow |
| **NA-0601** | Water Line | Blue |
| **NA-0602** | Telephone Line | Orange |
| **NA-0603** | Gas Line | Yellow |
| **NA-0605** | Sewer Line | Green |
| **NA-0606** | High Voltage Line | Red |
| **NA-0609** | Fiber Optic Cable | Orange |

***Note**: All barricade and utility tapes are 4 MIL polyethylene and are not self sticking. All legends are printed in black. Standard package is 1 roll.*

| CAT. NO. | LEGEND | COLOR |
|---|---|---|
| ***Buried Utility Tape 6" x 1,000'*** | | |
| **NA-0700** | Electric Line | Red |
| **NA-0708** | Electric Line | Yellow |
| **NA-0701** | Water Line | Blue |
| **NA-0702** | Telephone Line | Orange |
| **NA-0703** | Gas Line | Yellow |
| **NA-0706** | High Voltage Line | Red |
| **NA-0709** | Fiber Optic Cable | Orange |
| ***Foil-Backed Detectable Buried Utility Tape 3" x 1,000'*** | | |
| **NAF-0600** | Electric Line | Red |
| **NAF-0608** | Electric Line | Yellow |
| **NAF-0601** | Water Line | Blue |
| **NAF-0602** | Telephone Line | Orange |
| **NAF-0603** | Gas Line | Yellow |
| **NAF-0604** | Oil Line | Yellow |
| **NAF-0605** | Sewer Line | Green |
| **NAF-0606** | High Voltage Line | Red |
| **NAF-0607** | Cable TV Line | Orange |
| **NAF-0609** | Fiber Optic Cable | Orange |
| ***Foil-Backed Detectable Buried Utility Tape 6" x 1,000'*** | | |
| **NAF-0700** | Electric Line | Red |
| **NAF-0708** | Electric Line | Yellow |
| **NAF-0701** | Water Line | Blue |
| **NAF-0702** | Telephone Line | Orange |
| **NAF-0703** | Gas Line | Yellow |
| **NAF-0704** | Oil Line | Yellow |
| **NAF-0705** | Sewer Line | Green |
| **NAF-0706** | High Voltage Line | Red |
| **NAF-0707** | Cable TV Line | Orange |
| **NAF-0709** | Fiber Optic Cable | Orange |



Thomas&Betts

**United States**
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Fax: 901.252.1354

**Technical Services**
Tel: 888.862.3289

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Catamount®

# Catamount® Electrician's Supplies




**In this section...**



## Catamount® Electrician's Supplies


Wire Connectors ..... D-42–D-44
Wire Pulling Lubricants ..... D-45
Electrician Hand Tools ..... D-46
Hardware and Rough-In Products ..... D-47–D-52
Wire Testing Equipment ..... D-52


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## Wire Connectors

# Catamount® Wire Connectors



In 1914, William Marr invented the world's first pressure-type wire connector. Since then, these connectors have become synonymous with "best quality wire connectors." Easy to install and comfortable in the hand, they are indispensable to electricians. And now they're available as key components of the Catamount® product line. This is very good news for your fingers.

### How good are they?

The first thing you'll notice about Catamount® wire connectors is that they come in a variety of types and styles, making it easy for you to identify wire size at a glance.

Feature for feature, here's what makes Catamount® connectors significantly better than other connectors.

- Catamount® connectors are the ONLY wire connector to offer a non-winged, variable-volume live-action spring in the connector. The spring expands to receive the conductors, rather than crushing them together as typical non-winged competitors do.
- They can handle a broader range of wire connection combinations.
- They're coated with 100% pure copper, which reduces the corrosion common to tin- and zinc-coated products.
- Catamount® connectors' "finger friendly" design offers a truer grip for less hand fatigue during repeated use.
- They are the ONLY red non-winged connector that is UL Listed for a pair of #8 AWG wires.
- The high-grade polypropylene outer shell prevents "blooming" or "blossoming" of the connector sidewall. The outer shell maintains a constant moisture level, reducing the likelihood of the connector becoming dry, brittle to extreme heat or cold.



### Catamount® XTP® (Non-Winged)

| CAT. NO. | WIRE RANGE* | MIN. | MAX. | COLOR | DESCRIPTION | STD. CTN. |
|---|---|---|---|---|---|---|
| **329-P** | | | | | 100 pc/box | 1000 |
| **329-BP** | 22–16 | 1#22 + 1#20 | 2#16 | XTP-Gray | 1,000 pc/bulk box | 1000 |
| **329-BK** | | | | | 10,000 pc/bulk box | 10,000 |
| **330-P** | | | | | 100 pc/box | 1000 |
| **330-BP** | 22–14 | 3#20 | 3#16 | XTP-Blue | 1,000 pc/bulk box | 1000 |
| **330-BK** | | | | | 10,000 pc/bulk box | 10,000 |
| **331P** | | | | | 100 pc/bulk box | 1000 |
| **331M** | 18–14 | 2#18 | 3#14 | XTP-Orange | 1,000 pc/masterpak® | 5000 |
| **331KP** | | | | | 500 pc/bag | 10,000 |
| **333P** | | | | | 100 pc/box | 1000 |
| **333M** | 18–10 | 1#14 + 2#18 | 1#10 + 2#14 | XTP-Yellow | 1,000 pc/masterpak® | 3000 |
| **333KP** | | | | | 500 pc/bag | 5000 |
| **335P** | | | | | 100 pc/box | 1000 |
| **335D** | 18–8 | 2#16 + 2#18 | 3#10 | XTP-Red | 500 pc/masterpak® | — |
| **335Q** | | | | | 200 pc/bag | — |

**AWG Solid or Stranded*



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Fax: 901.252.1354

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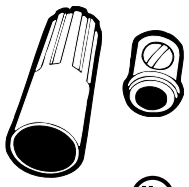
# Wire Connectors

## Catamount® Set-Screw Wire Connectors

Threaded brass inserts provide vibration-resistant connections that are easily removed for disconnection, visual inspection or rewiring. Catamount® set-screw wire connectors feature flexible, color-coded nylon insulating shells which are compact for tight applications.

The nylon insulating shells resist heat, cold and impact with a temperature rating of 105° C (221° F) max. Rated: 600V.

- Threaded brass inserts for vibration-resistant connections
- Easily removed
- Color-coded nylon insulating shells
- UL Listed and CSA Certified



| CAT. NO. | DESCRIPTION | WIRE RANGE* | MIN. | MAX. | DIMENSIONS (IN.) A | B | C | D | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|
| ***Carton Packed*** | | | | | | | | | |
| **10-305** | (SS-0) Orange | #18–#12 | (2) #18 | (1) #12 w/ (3) #18 | 15/16 | 7/16 | 23/64 | 3/8 | 100 |
| **10-307** | (SS-2) Red | #18–#10 | (6) #18 | (2) #10 w/ (1) #12 | 1 3/32 | 39/64 | 33/64 | 35/64 | 100 |
| ***Bulk Packed*** | | | | | | | | | |
| **10-315** | (SS-0) Orange | #18–#12 | (2) #18 | (1) #12 w/ (3) #18 | 15/16 | 7/16 | 23/64 | 3/8 | 1000 |
| **10-317-H** | (SS-2) Red | #18–#10 | (6) #18 | (2) #10 w/ (1) #12 | 1 3/32 | 39/64 | 33/64 | 35/64 | 1000 |

** Solid only*

*UL File E-17010; CSA File LR-6541; 10-306 and 10-316 have been superceded by IBP.*

## Catamount® Set-Screw Vibration-Proof/Visible Connection

The Catamount® Set Screw is a two-piece, pressure-type connector featuring a solid brass insert with a screw-on insulating cap. It's the perfect choice when changing a motor, adding a circuit, conducting instrument testing or simply lashing-up temporary wiring.

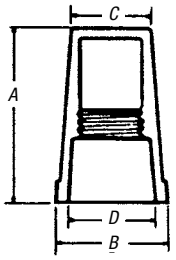
### External Cap

- Made of rugged, phenolic material and 150° C-rated.
- Insulator cap locks securely in place to safeguard against accidental loosening in high-vibration applications.

### Brass Insert

- Choice of slot or Robertson set screw. When tightening into the insert, provides a solid pressure-type connection on all approved wire combinations.
- No need to "re-strip" wires when rewiring. Simply loosen set screw to remove non-twisted wires.

- CSA (LR6591), UL (424H) — approved for circuits up to 600V and lighting fixtures and signs up to 1,000V.
- Convenient packaging — sized right and jobsite ready!



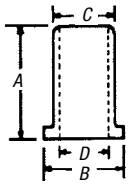

### Marrette Set Screws

| CAT. NO. | DESCRIPTION | WIRE RANGE | STD. CTN. | STD. PKG. |
|---|---|---|---|---|
| **1SHP** | Marrette Set Screw, Small Robertson | #18–#12 | 100 | 1000 |
| **2SHP** | Marrette Set Screw, Large Robertson | #18–#10 | 100 | 1000 |
| **1C-CDN** | Marrette Set Screw, Small Slot-Head | #18–#12 | 3/Card | 10 Cards |
| **2C-CDN** | Marrette Set Screw, Large Slot-Head | #18–#10 | 3/Card | 10 Cards |

## Crimp Sleeve Wire Connectors

- Zinc plated, chromate-treated steel
- Two sizes accommodate #18–#8 AWG copper
- UL Listed and CSA Certified






*E-17010 LR-6541*

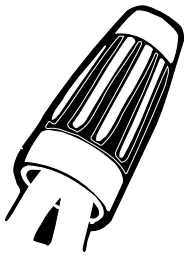
| CAT. NO. | DESCRIPTION | WIRE RANGE* | MIN. | MAX. | DIMENSIONS (IN.) A | B | C | D | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|
| ***Carton Packed*** | | | | | | | | | |
| **10–500** | (Hi–410) | #18–#10* | (1) #14 w/ (1) #18 | (2) #10 w/ (1) #12 | 3/8 | 19/64 | 1/4 | 13/64 | 50 |
| **10–501** | (Hi–411) | #18–#8 | (3) #12 | (4) #10 | 39/64 | 23/64 | 5/16 | 17/64 | 50 |
| ***Bulk Packed*** | | | | | | | | | |
| **10–510** | (Hi–410) | #18–#10* | (1) #14 w/ (1) #18 | (2) #10 w/ (1) #12 | 3/8 | 19/64 | 1/4 | 13/64 | 1000 |
| **10–511** | (Hi–411) | #18–#8 | (3) #12 | (4) #10 | 39/64 | 23/64 | 5/16 | 17/64 | 1000 |

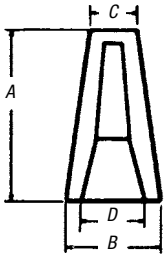
** Stranded only.*

*Installation tool 18–500.*

## Wire Connectors

# Porcelain Wire Connectors — High Temperature






- For high-temperature applications over 105° C
- Rated up to 645° C (1200° F)
- Three sizes accommodate #18–#14 AWG stranded copper
- 300V Rated
- UL Listed and CSA Certified
- UL Standard 486C

| CAT. NO. | DESCRIPTION | WIRE RANGE* | MIN. | MAX. | DIMENSIONS (IN.) A | B | C | D | STD. CTN. |
|---|---|---|---|---|---|---|---|---|---|
| ***Carton Packed*** | | | | | | | | | |
| **10-401** | (Hi-1) | #18–#14 | (2) #18 | (1) #18 w/ (2) #16 | 11/16 | 13/32 | 3/16 | 1/4 | 100 |
| **10-405** | (Hi-5) | #18–#14 | (2) #18 | (2) #16 w/ (2) #18 | 3/4 | 31/64 | 13/64 | 5/16 | 100 |
| **10-407** | (Hi-7) | #18–#14 | (2) #18 | (4) #16 | 27/32 | 17/32 | 7/32 | 13/32 | 100 |
| ***Multi-Carton Packed*** | | | | | | | | | |
| **10-411** | (Hi-1) | #18–#14 | (2) #18 | (1) #18 w/ (2) #16 | 11/16 | 13/32 | 3/16 | 1/4 | 1,000 |
| **10-415** | (Hi-5) | #18–#14 | (2) #18 | (2) #16 w/ (2) #18 | 3/4 | 31/64 | 13/64 | 5/16 | 1,000 |
| **10-417** | (Hi-7) | #18–#14 | (2) #18 | (4) #16 | 27/32 | 17/32 | 7/32 | 13/32 | 1,000 |
| ***Bulk Packed*** | | | | | | | | | |
| **10-421** | (Hi-1) | #18–#14 | (2) #18 | (1) #18 w/ (2) #16 | 11/16 | 13/32 | 3/16 | 1/4 | 10,000 |
| **10-425** | (Hi-5) | #18–#14 | (2) #18 | (2) #16 w/ (2) #18 | 3/4 | 31/64 | 13/64 | 5/16 | 5,000 |
| **10-427** | (Hi-7) | #18–#14 | (2) #18 | (4) #16 | 27/32 | 17/32 | 7/32 | 13/32 | 5,000 |

** Stranded only.*

*UL File E-17010; CSA File LR-6541.*

# Catamount® Black™ High-Temperature Wire Connectors

The Catamount® Black™ connector's high-temperature rating makes it the best solution for high-wattage lighting fixtures and signs.



### External Cap

- Made of rugged, phenolic material and 150° C rated
- Large, finely ribbed, "barrel-shaped" cap — makes it easier to grip even when hands are greasy or damp
- Deep, wide throat ensures full insulation coverage
- Threaded entry helps guide large wire bundles right into the spring

### Inner Spring

- Internal round spring design multiplies the "twist-on" torque applied by the leverage and wedge action to firmly crush wires into a solid joint
- Unique copper-coated spring helps resist corrosion
- CSA (LR6591), UL (424H)
  - – Model No. 30 Black™ is approved for circuits and fixture-type connections up to 300V only
  - – Model Nos. 31, 33 & 35 Black™ are approved for circuits up to 600V, and lighting fixtures and signs up to 1,000V

- Convenient packaging — sized right and jobsite ready!

| CAT. NO. | DESCRIPTION | WIRE RANGE | MODEL | STD. CTN. |
|---|---|---|---|---|
| **30P** | Black | #22–#14 | 30 | 1,000 |
| **30BP** | Black | #22–#14 | 30 | 1,000 |
| **30BK** | Black | #22–#14 | 30 | 10,000 |
| **31P** | Black | #18–#14 | 31 | 1,000 |
| **31KP** | Black | #18–#14 | 31 | 5,000 |
| **31BP** | Black | #18–#14 | 31 | 1,000 |
| **31BK** | Black | #18–#14 | 31 | 10,000 |
| **33P** | Black | #18–#12 | 33 | 1,000 |
| **33KP** | Black | #18–#12 | 33 | 5,000 |
| **33BP** | Black | #18–#12 | 33 | 10,000 |
| **33BK** | Black | #18–#12 | 33 | 10,000 |
| **35P** | Black | #18–#10 | 35 | 1,000 |
| **35KP** | Black | #18–#10 | 35 | 2,500 |
| **35BP** | Black | #18–#10 | 35 | 1,000 |
| **35BK** | Black | #18–#10 | 35 | 5,000 |



Thomas&Betts

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## Wire Pulling Lubricants

# Wire Pulling Lubricant — Semi-Synthetic Base

T&B offers a choice of wire and cable pulling lubricants. The popular standard base, cold weather and advanced engineered polymer-base lubricants are available. Each features superior stability, adherence and cable compatibility as well as excellent lubricating properties.

- Preferred semi-synthetic base formulation
- Retains lubricating properties and will not separate up to 200° F
- Will not separate after freezing
- Superior adherence to cable
- Recommended for use on all commonly used wire and cable, including high-voltage cable and all UL Listed conduits
- Dries to slick, waxy film
- Non-toxic, no silicones, non-staining, easy cleanup




| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **15-231** | 1 Gallon | 4 |

*Suitable for use with wire or cable insulated with rubber (R, RH, etc.), Neoprene, nylon and PVC plastics (T, TW, THW THHN, etc.), Hypalon*, high-density polyethylene and Cross Linked Polyethlene (XLP). Not recommended for use on asbestos or low-density polyethylene insulated cables. Compatible with semiconducting jackets present on high-voltage cable. Meets the requirements of ICEA Standards:*

*ICEA #S-61-402/NEMA Pub. #WC5*
*ICEA #S-66-524/NEMA Pub. #WC7*

*UL File E-43782.*

**Hypalon is a registered trademark of E.I. DuPont.*

*For 24-hour safety and MSDS requirements, call Chemtrec at 800-424-9300.*

### Technical Information

1. pH:7.9
2. Coefficient of Friction (wet and dry residue) sliding wet — .07 sliding dry — .08
3. Color: yellow
4. Weight per Gallon: 8.26 lbs.
5. Freezing Point: +25° F (-4° C)
6. High-Temperature Stability: 200° F (93° C)
7. Non-toxic, non-staining, contains no silicones

***Note**: Additional test data available upon request.*

# WireSlick™ Wire and Cable Pulling Lubricant

WireSlick™ wire and cable pulling lubricant represents the latest in polymer technology. An economical formulation, WireSlick™ polymer-base lubricant provides extremely good thermal stability and a lower freezing point (20° F) than clay-, soap- or wax-base formulations.

WireSlick™ is recommended for use with wire or cable insulated with rubber (R, RH, etc.), Neoprene; nylon and PVC plastics (T, TW, THW, THHN, etc.); Hypalon*; High-Density Polyethylene and Cross-Linked Polyethylene (XLP). It is also compatible with high-voltage cable with semi-conducting jackets.

WireSlick™ has been tested and passes the requirements of ICEA Standards:

ICEA #S-61-402/NEMA Pub. #WC5
ICEA #S-66-524/NEMA Pub. #WC7

- Polymer-base formulation
- Universally compatible with all types of wire and cable
- Widely used by power and telephone utilities
- Economical lubricant

### Technical Information

1. pH:8.2
2. Coefficient of Friction (wet and dry residue) sliding wet — .11 sliding dry — .17
3. Color: orange
4. Weight per Gallon: 10 lbs.
5. Freezing Point: +20° F (-7° C)
6. High-Temperature Stability: 200° F (93° C)
7. Non-toxic, non-staining, contains no silicones

***Note**: Additional test data available upon request.*

## Wire and Cable Pulling Lubricant

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **15-631** | 1-Gallon Pail | 4 |

*UL File E-43782.*

**Hypalon is a registered trademark of E.I. DuPont.*

*For 24-hour safety and MSDS requirements, call Chemtrec at 800-424-9300.*

# Electrician Hand Tools

## 7" Awl



- Comfortable cushion-grip handle that is small enough for working in obstructed areas
- Constructed of hardened and tempered steel for strength and durability
- Convenient precision-ground tip can be resharpened

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| 18-AWL | 7" Awl | 5 |

## Cable Cutter



- Designed to cut 4/0 aluminum and up to 2/0 soft copper
- Manufactured to meet or exceed U.S. government specifications

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| 18-CC9 | Cable Cutter | 5 |

## Screw Starter



| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| 18-265 | Screw Starter 6" (Card Display) | 10 |
| 18-266 | Screw Starter 9" (Card Display) | 10 |

## Cable Rippers



- Slits outer jacket from Romex and other non-metallic (NM) sheathed cable

### Model 18-223

- Made from cast aluminum; has replaceable blades
- For 2- or 3-wire #14, #12 or #10 with or without ground

| CAT. NO. | DESCRIPTION | WIRE RANGE | STD. CTN. |
|---|---|---|---|
| 18-223 | Cable Ripper for 2 or 3 Wires | #14, #12 or #10 | 12 |
| 18-201 | Replacement Blade for 18-223 | — | 1 |

## Wire and Cable Cutting and Stripping Tool



- Interchangeable cassettes enable the user to strip a wide range of insulations without having to change tools
- Tool automatically strips wire to preset length

| CAT. NO. | DESCRIPTION | PKG. QTY. |
|---|---|---|
| ERG1-WS | Self-Adjusting, Cutting and Stripping Tool | 1 |
| VBC-1 | Replacement "V" Blade Cassette | 1 |

*ERG1-WS Wire Stripping/Cutting Tool is shipped with one Straight Blade Cassette (SBC-1).*

*"V" Blade Cassettes sold separately.*



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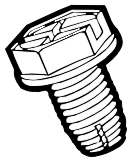
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# Hardware and Rough-In Products

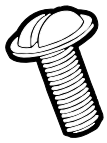


## Grounding Screws for Metal Boxes

- Color-coded green
- Size 10-32 x ⅜, fits tapped screw hole in most boxes
- Cat. No. 11-104 taps its own threads



11-104



11-101

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| 11-101 | Washer Head Screws | 1,000 |
| 11-104 | Hex/Phillips/Slotted Head Self-Tapping | 1,000 |

## Anchors — Metallic

### Lead Expansion Anchors

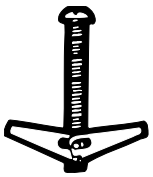
- For heavy-duty anchoring in solid masonry
- One setting tool supplied in each standard carton; no screws supplied



| CAT. NO. | SCREW SIZE | HOLE DEPTH (IN.) | DRILL SIZE | STD. CTN. |
|---|---|---|---|---|
| 53-308 | ¼-20 | ⅞ | ½ | 500 |
| 53312 | ⅜-16 | 1¼ | ¾ | 250 |

### Mushroom Head Toggle Bolts

- "Spring-Wing" type, zinc plated
- Bolts are threaded full length



| CAT. NO. | SIZE | DRILL HOLE (IN.) | STD. CTN. |
|---|---|---|---|
| 52-602 | ⅛ (6-32) x 3 | ⅜ | 250 |
| 52-604 | ⅛ (6-32) x 4 | ⅜ | 250 |
| 52-622 | 3⁄16 (10-24) x 3 | 9⁄16 | 250 |
| 52-624 | 3⁄16 (10-24) x 4 | 9⁄16 | 250 |
| 52-632 | ¼-20 x 3 | ¾ | 250 |
| 52-634 | ¼-20 x 4 | ¾ | 250 |

## Anchors — Non-Metallic

### Economy Plastic Screw Anchor

- Superior holding power in solid masonry or concrete block



| CAT. NO. | SIZE | FOR TAPPING SCREWS SIZE | FOR TAPPING SCREWS LENGTH (IN.) | DRILL* HOLE (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| 50-404 | #12 x 1" | 10 to 12 | 1 | ¼ | 1,000 |

** When impact hammer drill is used, downsize drill hole 1⁄32".*

### Economy Screw Anchor Kits



| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| 51-404* | (100) #12 x 1" Screw Anchor<br>(100) 10 x 1" Slot/Phillips Head Screws<br>(1) ¼" Carbide-Tip Drill Bit | 12 |
| 51-404HX | (100) #12 x 1" Screw Anchor<br>(100) 10 x 1" Hex-Slotted Screws<br>(1) ¼" Carbide-Tip Drill Bit | 12 |

** Now with Slot/Phillips screws.*

# Anchors — Non-Metallic *(continued)*

## Hexagon Nuts



- For use with machine bolts
- Finest quality steel, zinc plated

| CAT. NO. | SIZE | STD. CTN. |
|---|---|---|
| **55-004P** | 6-32 | 1,000 |
| **55-005P** | 8-32 | 1,000 |
| **55-008P** | ¼-20 | 1,000 |
| **55-010** | 5⁄16-18 | 1,000 |
| **55-012** | ⅜-16 | 1,000 |

## Red-Cap® Anchor Kits



- Red Cap® anchors, screws and drill bit in reusable plastic kit box

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **51-208** | (100) #8 Anchors<br>(100) 6 x 1" Panhead Screws<br>(1) 3⁄16" Carbide-Tip Drill Bit | 12 |
| **51-212*** | (100) #12 Anchors<br>(100) 10 x 1" Combination Slot/Phillips Head Screws<br>(1) ¼" Carbide-Tip Drill Bit | 12 |
| **51-212HX** | (100) #12 Anchors<br>(100) 10 x 1" Hex-Slotted Screws<br>(10) ¼" Carbide-Tip Drill Bit | 12 |
| **51-216** | (50) #16 Anchors<br>(50) 14 x 1 1⁄64" Panhead Screws | 12 |

** Now with combination Slot/Phillips screws.*

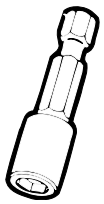
## Self-Drilling Screws



- Drill their own hole and form mating threads
- #8 screws fasten combined material thickness up to 3⁄32"
- #10 screws fasten combined material thickness up to ¼"
- Hex Washer Head (no slot)
- ¼" hex head fits 54-090 Magnetic Driver
- 5⁄16" hex head fits 54-091 Magnetic Driver

| CAT. NO. | SIZE | HEAD SIZE (IN.) | POINT NO. | STD. CTN. |
|---|---|---|---|---|
| **54-301** | 8 x ¾" | ¼ | 2 | 1,000 |
| **54-302P** | 10 x ⅝" | 5⁄16 | 3 | 1,000 |
| **54-303P** | 10 x 1" | 5⁄16 | 3 | 1,000 |
| **54-304** | 12-14 x ¾" | 5⁄16 | 3 | 1,000 |

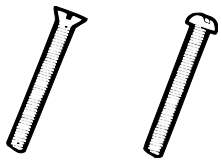
## Magnetic Drivers



- For driving self-piercing and self-drilling hex head screws
- Fits power screwdriver and electric drill chucks
- Strong permanent magnet holds screw in position

| CAT. NO. | SIZE | STD. CTN. |
|---|---|---|
| **54-091** | 5⁄16" x 1⅝" Hex-Head Magnetic Driver | 12 |
| **54-090** | ¼" x 1⅝" Hex-Head Magnetic Driver | 12 |

## Machine Bolts



- Steel, zinc plated
- Accurate, uniform threads
- Round heads standard; flat heads available in some sizes

| CAT. NO. | SIZE | STD. CTN. |
|---|---|---|
| **54-541P** | 8-32 x ½" | 1,000 |
| **54-543P** | 8-32 x 1" | 1,000 |
| **54-545P** | 8-32 x 1½" | 1,000 |
| **54-546P** | 8-32 x 2" | 1,000 |
| **54-570P** | ¼-20 x ⅜" | 1,000 |
| **54-571P** | ¼-20 x ½" | 1,000 |
| **54-572P** | ¼-20 x ¾" | 500 |
| **54-573P** | ¼-20 x 1" | 500 |

## Red-Cap® Screw Anchors



- Superior holding power in solid masonry or concrete block

| CAT. NO. | SIZE | FOR TAPPING SCREWS SIZE | FOR TAPPING SCREWS LENGTH (IN.) | DRILL* HOLE (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| **50-210** | #8 x ⅞" | 6, 7 or 8 | 1–1¼ | 3⁄16 | 1,000 |
| **50-230** | #12 x 1" | 9, 10 or 12 | 1–1¼ | ¼ | 1,000 |
| **50-250** | #16 x 1⅜" | 14 or 16, ¼" Lag Screw | 1¼–1½ | 5⁄16 | 500 |
| **BULK** | | | | | |
| **50-239** | #12 x 1" | 9, 10 or 12 | 1–1¼ | ¼ | 10,000 |

** When impact hammer drill is used, downsize drill hole 1⁄32".*

***Note**: For maximum holding power, select screw length ¼" longer than anchor.*



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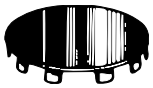
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# Hardware and Rough-In Products

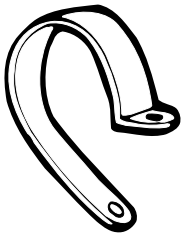
## Snap-In Blanks



- Steel
- Zinc plated
- Used for replacing knockouts in outlet boxes

| CAT. NO. | SIZE | DIAMETER (IN.) | STD. CTN. |
|---|---|---|---|
| **BL-111** | 1/2 | 15/64 | 1,000 |
| **BL-112** | 3/4 | 1 1/4 | 1,000 |
| **BL-113** | 1 | 1 1/2 | 1,000 |
| **BL-114** | 1 1/4 | 1 13/16 | 500 |
| **BL-115** | 1 1/2 | 2 7/32 | 500 |
| **BL-116** | 2 | 2 11/16 | 250 |

## Plastic Clamps — Nylon



- Nylon
- Screw hole size .203 for #10 screw
- Temperature range -40° F to 176° F

| CAT. NO. | DESCRIPTION | DIMENSIONS (IN.) D | W | T | E | STD. CTN. |
|---|---|---|---|---|---|---|
| **12-102** | (NPC-2) | 1/8 | 3/8 | 3/64 | 21/64 | 1,000 |
| **12-103** | (NPC-3) | 3/16 | 3/8 | 3/64 | 3/8 | 1,000 |
| **12-104** | (NPC-4) | 1/4 | 3/8 | 3/64 | 13/32 | 1,000 |
| **12-105** | (NPC-5) | 5/16 | 3/8 | 3/64 | 29/64 | 1,000 |
| **12-106** | (NPC-6) | 3/8 | 3/8 | 3/64 | 15/32 | 1,000 |
| **12-107** | (NPC-7) | 7/16 | 3/8 | 3/64 | 33/64 | 1,000 |
| **12-108** | (NPC-8) | 1/2 | 3/8 | 3/64 | 35/64 | 1,000 |
| **12-109** | (NPC-9) | 9/16 | 1/2 | 1/16 | 5/8 | 1,000 |
| **12-110** | (NPC-10) | 5/8 | 1/2 | 1/16 | 21/32 | 1,000 |
| **12-111** | (NPC-11) | 11/16 | 1/2 | 1/16 | 47/64 | 1,000 |
| **12-112** | (NPC-12) | 3/4 | 1/2 | 1/16 | 25/32 | 500 |
| **12-114** | (NPC-14) | 7/8 | 1/2 | 1/16 | 27/32 | — |
| **12-116** | (NPC-16) | 1 | 1/2 | 1/16 | 29/32 | — |
| **12-118** | (NPC-18) | 1 1/8 | 1/2 | 1/16 | 31/32 | 50 |
| ***Bulk Cartons*** | | | | | | |
| **12-202** | (NPC-2) | 1/8 | 3/8 | 3/64 | 21/64 | 1,000 |
| **12-203** | (NPC-3) | 3/16 | 3/8 | 3/64 | 3/8 | 1,000 |
| **12-204** | (NPC-4) | 1/4 | 3/8 | 3/64 | 13/32 | 1,000 |
| **12-205** | (NPC-5) | 5/16 | 3/8 | 3/64 | 29/64 | 1,000 |
| **12-206** | (NPC-6) | 3/8 | 3/8 | 3/64 | 15/32 | 1,000 |
| **12-207** | (NPC-7) | 7/16 | 3/8 | 3/64 | 33/64 | 1,000 |
| **12-208** | (NPC-8) | 1/2 | 3/8 | 3/64 | 35/64 | 1,000 |
| **12-209** | (NPC-9) | 9/16 | 1/2 | 1/16 | 3/8 | 1,000 |
| **12-210** | (NPC-10) | 5/8 | 1/2 | 1/16 | 21/32 | 1,000 |
| **12-211** | (NPC-11) | 11/16 | 1/2 | 1/16 | 47/64 | — |
| **12-212** | (NPC-12) | 3/4 | 1/2 | 1/16 | 25/32 | 1,000 |
| **12-214** | (NPC-14) | 7/8 | 1/2 | 1/16 | 27/32 | 500 |
| **12-216** | (NPC-16) | 1 | 1/2 | 1/16 | 29/32 | 500 |
| **12-218** | (NPC-18) | 1 1/8 | 1/2 | 1/16 | 31/32 | — |

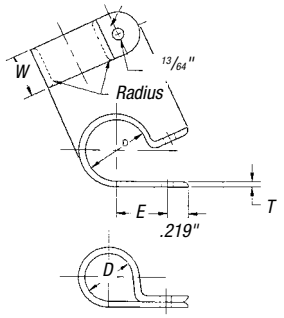
## Conduit Seals (Pennies)



- Steel
- Used to keep plaster out of conduit during construction

| CAT. NO. | SIZE | STD. CTN. |
|---|---|---|
| **815-TB** | 1/2 | 1,000 |
| **816** | 3/4 | 500 |
| **817** | 1 | 250 |
| **818** | 1 1/4 | 250 |
| **819** | 1 1/2 | 100 |
| **820** | 2 | 100 |
| **821** | 2 1/2 | 100 |
| **822** | 3 | 50 |
| **824-TB** | 3 1/2 | 25 |
| **823** | 4 | 100 |

## Plastic Clamps — Polypropylene




- Polypropylene
- Cost effective
- Hole size .203 for #10 screw
- Temperature range -40° F to 221° F

| CAT. NO. | DESCRIPTION | DIMENSIONS (IN.) D | W | T | E | STD. CTN. |
|---|---|---|---|---|---|---|
| **12-502** | (PPC-2) | 1/8 | 1/2 | 1/16 | 23/64 | 1,000 |
| **12-503** | (PPC-3) | 3/16 | 1/2 | 1/16 | 27/64 | 1,000 |
| **12-504** | (PPC-4) | 1/4 | 1/2 | 1/16 | 29/64 | 1,000 |
| **12-505** | (PPC-5) | 5/16 | 1/2 | 1/16 | 1/2 | 1,000 |
| **12-506** | (PPC-6) | 3/8 | 1/2 | 1/16 | 17/32 | 1,000 |
| **12-507** | (PPC-7) | 7/16 | 1/2 | 1/16 | 9/16 | 1,000 |
| **12-508** | (PPC-8) | 1/2 | 1/2 | 1/16 | 19/32 | 1,000 |
| **12-509** | (PPC-9) | 9/16 | 1/2 | 1/16 | 5/8 | 1,000 |
| **12-510** | (PPC-10) | 5/8 | 1/2 | 1/16 | 21/32 | 1,000 |
| **12-511** | (PPC-11) | 11/16 | 1/2 | 1/16 | 3/4 | 1,000 |
| **12-512** | (PPC-12) | 3/4 | 1/2 | 1/16 | 25/32 | 500 |
| **12-516** | (PPC-16) | 1 | 1/2 | 1/16 | 29/32 | — |
| ***Bulk Cartons*** | | | | | | |
| **12-602** | (PPC-2) | 1/8 | 1/2 | 1/16 | 23/64 | 1,000 |
| **12-603** | (PPC-3) | 3/16 | 1/2 | 1/16 | 27/64 | 1,000 |
| **12-604** | (PPC-4) | 1/4 | 1/2 | 1/16 | 29/64 | 1,000 |
| **12-605** | (PPC-5) | 5/16 | 1/2 | 1/16 | 1/2 | 1,000 |
| **12-606** | (PPC-6) | 3/8 | 1/2 | 1/16 | 17/32 | 1,000 |
| **12-607** | (PPC-7) | 7/16 | 1/2 | 1/16 | 9/16 | 1,000 |
| **12-608** | (PPC-8) | 1/2 | 1/2 | 1/16 | 19/32 | 1,000 |
| **12-609** | (PPC-9) | 9/16 | 1/2 | 1/16 | 5/8 | 1,000 |
| **12-610** | (PPC-10) | 5/8 | 1/2 | 1/16 | 21/32 | 1,000 |
| **12-611** | (PPC-11) | 11/16 | 1/2 | 1/16 | 3/4 | 1,000 |
| **12-612** | (PPC-12) | 3/4 | 1/2 | 1/16 | 25/32 | 1,000 |
| **12-616** | (PPC-16) | 1 | 1/2 | 1/16 | 29/32 | 500 |

# Hardware and Rough-In Products

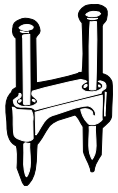
## Steel Cable Staples



| CAT. NO. | SIZE (IN.) | DESCRIPTION | H (IN.) | W (IN.) | STD. CTN. |
|---|---|---|---|---|---|
| *For NM Cable* | | | | | |
| **17-130TB** | 1/2 | 2-Wire #12 or #14 | 7/8 | 1/2 | 5,000 |
| **17-140TB** | 1/2 | Romex up to | 7/8 | 1/2 | 5,000 |
| **17-140B** | 1/2 | 1/2" Wide | 7/8 | 1/2 | 10,000* |
| **17140XB** | 1/2 | | 7/8 | 1/2 | 17,000 |
| **17-132** | 9/16 | 3-Wire #10 or #12 | 1 1/8 | 37/64 | 5,000 |
| **17-142** | 9/16 | B X Romex; UF up | 1 1/8 | 37/64 | 5,000 |
| **17-142B** | 9/16 | to 37/64" Wide | 1 1/8 | 37/64 | 8,000 |
| **17-123** | 3/4 | 3-Wire #6 SEU | 1 5/16 | 25/32 | 1,000 |
| **17-124TB** | 1 | 3-Wire #2 SEU | 1 1/2 | 1 | 1,000 |

** Reusable Plastic Bucket.*

## Plastic Cable Staples

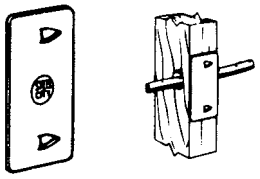


| CAT. NO. | SIZE (IN.) | DESCRIPTION | STD. CTN. |
|---|---|---|---|
| **17-214** | 1/2 (bag) | 2-Wire, #12–#14 Romex, | 500 |
| **17-224** | 1/2 (ctn.) | UF and other NM Cable | 5,000 |
| **17-234** | 1/2 (ctn.) | | 5,000 |
| **17-215** | 3/4 (bag) | 3-Wire #10 or #12 Romex | 500 |
| **17-225** | 3/4 (ctn.) | UF up to 9/16 Wire | 5,000 |
| **17-235** | 3/4 (ctn.) | | 5,000 |

** Reusable Plastic Bucket.*

## Cable Protector Plate

- Protects wires, cords and cables from nail and screw penetration



| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **CP-1** | Steel Clip | 100 |

## Perforated Hanger Strap (¾" Wide, 20 Gauge)

- Galvanized finish
- Easily bends or twists to desired shape



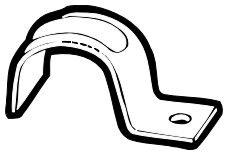

| CAT. NO. | DESCRIPTION | STD. CTN. |
|---|---|---|
| **16-263** | 50' Bulk | 1 |
| **16-264** | 100' Bulk | 1 |

## Drive Straps



| CAT. NO. | EMT SIZE (IN.) | PIPE SIZE (IN.) | STD. CTN. |
|---|---|---|---|
| *For EMT and Pipe (Zinc Plated)* | | | |
| **16-941** | 3/8–1/2 | 3/8 | 1,000 |
| **16-942** | 3/4 | 1/2 | 1,000 |

## Service Entrance Cable Straps



| CAT. NO. | THINWALL CONDUIT SIZE (IN.) | STD. CTN. |
|---|---|---|
| **ECS6** | 3:6, 2:6, 1:8 | 100 |
| **ECS2** | 3:2, 2:2, 1:4, 3:4 | 100 |
| **ECS20** | 3:2/0, 3:1/0 | 50 |
| **ECS40** | 3:4/0 | 50 |

## Extra-Duty One-Hole Snap-Straps



| CAT. NO. | THINWALL CONDUIT SIZE (IN.) | STD. CTN. |
|---|---|---|
| **16-910** | 1/2 | 500 |



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# Hardware and Rough-In Products



## Silicone Lubricant for High-Voltage Electrical Work

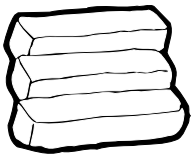
- Seals around junction boxes, flashings, service mast entries, service cable entries and countless other applications




| CAT. NO. | SIZE | STD. CTN. |
|---|---|---|
| SL-5 | 5 oz. | 12 |

## Duct Seal

- Can be painted immediately after application
- +20° F to 212° F workable temperature range
- -40° F to 250° F service temperature range
- Contains no asbestos



| CAT. NO. | DESCRIPTION | PKG. QTY. |
|---|---|---|
| DX-1 | 1-lb. Slug | 50 |
| DX-5 | (5) 1-lb. Slugs | 10 |
| DX-5S | 5-lb. Slug | 10 |

*UL Classified R13335.*

***Note**: Not classified as a "Fire Stop." For moisture and air sealing only.*

## Wire Bristle Brush

- For removing oxides from conductor surfaces
- Easy-grip handle with glove guard to prevent rubber glove puncture



| CAT. NO. | TYPE | STD. CTN. |
|---|---|---|
| WWB1 | Complete Brush with Handle | 6 |
| WRB1 | Wire Element Only, Pair | 30 |

## CONTAX® Oxide-Inhibiting Compound

- Seals electrical connections from oxygen and moisture
- Non-water soluble, non-petroleum based polymer grease
- Non-toxic, will not irritate the skin
- Service temperature to 460° F; can be applied in 0° F weather

| CAT. NO. | SIZE | PKG. QTY. |
|---|---|---|
| CTA | ½-oz. Package | 400 |
| CTB | 4-oz. Plastic Bottles | 72 |
| CTB8 | 8-oz. Plastic Bottles | 12 |
| CTQ | Quart Cans | 6 |
| CTG | Gallon Cans | 2 |

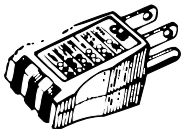
## CTO™ Conduit Threading Oil

This oil is a premium petroleum-type cutting oil, chemically compounded to provide an excellent lubricant and coolant for heavy-duty threading, cutting, tapping and drilling.

| CAT. NO. | DESCRIPTION | PKG. QTY. |
|---|---|---|
| 15-112 | 1 Gallon | 4 |

## Receptacle Tester

- Conveniently tests receptacles for proper wiring, including polarity and presence of safety ground wire
- Label gives interpretations of all readings



| CAT. NO. | DESCRIPTION | PKG. QTY. |
|---|---|---|
| 19-060 | Receptacle Tester for 120V Circuits | 6 |

*UL File E-80682.*

## High-Volt Testers

- 90–250 volts AC/DC
- Convenient pocket clip included



| CAT. NO. | DESCRIPTION | PKG. QTY. |
|---|---|---|
| 19-079 | Tester & Screwdriver, 5" Overall Length | 6 |

## 19-660C Audible Voltage Continuity Tester

Designed for the everyday needs of the professional electrician and made in the USA.

### This solenoid-type tester model's features include:

- Three voltage indications: Solenoid vibration sensing, electronic neon visual indication and audible buzzer
- Positive AC/DC voltage identification: 6 to 600 volts, 60/50 Hz
- Automatic testing for continuity through 300K ohms
- Electronic buzzer indication for AC/DC voltage and continuity



| CAT. NO. | DESCRIPTION | PKG. QTY. |
|---|---|---|
| 19-660C | Audible Voltage/Continuity Tester, Solenoid Type | 10 |



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