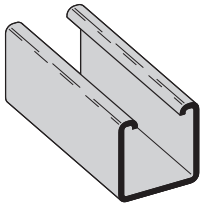
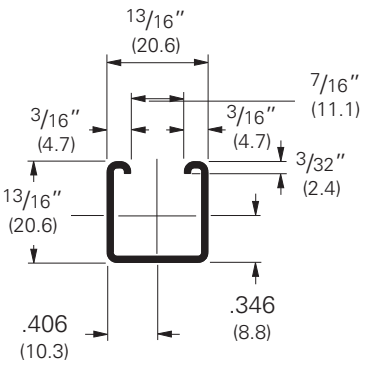
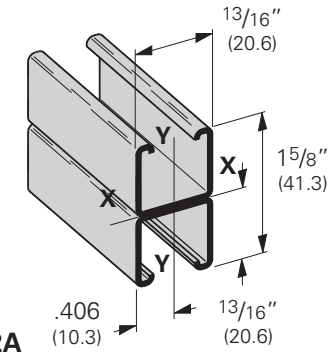
- Thickness: 18 Ga. (1.2 mm)
- Standard lengths: 10′ (3.05 m) & 20′ (6.09 m)
- Standard finishes: Plain, DURA GREEN™, Pre-Galvanized
- Weight: .42 Lbs./Ft. (.62 kg/m)







B62A
Wt. .84 Lbs./Ft. (1.25 kg/m)

Section Properties

Channel	Weight lbs./ft.	Weight kg/m	Areas of Section sq. in.	Areas of Section cm^2	X - X Axis: Momentof Inertia (I) $in.^4$	X - X Axis: Momentof Inertia (I) cm^4	X - X Axis: Section Modulus (S) $in.^3$	X - X Axis: Section Modulus (S) cm^3	X - X Axis: Radius of Gyration (r) in.	X - X Axis: Radius of Gyration (r) cm	Y - Y Axis: Moment of Inertia (I) $in.^4$	Y - Y Axis: Moment of Inertia (I) cm^4	Y - Y Axis: Section Modulus (S) $in.^3$	Y - Y Axis: Section Modulus (S) cm^3	Y - Y Axis: Radius of Gyration (r) in.	Y - Y Axis: Radius of Gyration (r) cm
B62	.420	(.62)	.123	(.80)	.0103	(.43)	.0221	(.36)	.289	(.73)	.0134	(.56)	.0330	(.54)	.330	(.84)
B62A	.839	(1.25)	.247	(1.59)	.0500	(2.08)	.0616	(1.01)	.450	(1.14)	.0269	(1.12)	.0663	(1.09)	.330	(.84)

Calculations of section properties are based on metal thicknesses as determined by the AISI Cold-Formed Steel Design Manual.

Beam Loading

Beam Span In.	Beam Span mm	Channel Style	Uniform Load and Deflection Lbs.	Uniform Load and Deflection kN	Uniform Load and Deflection In.	Uniform Load and Deflection mm	Uniform Load @ Deflection = 1/240 Span Lbs.	Uniform Load @ Deflection = 1/240 Span kN	Uniform Load @ Deflection = 1/360 Span Lbs.	Uniform Load @ Deflection = 1/360 Span kN
12	(305)	**B62**	364	(1.62)	.027	(.68)	364	(1.62)	364	(1.62)
		B62A	420*	(1.87)	.006	(.15)	420*	(1.87)	420*	(1.87)
24	(609)	**B62**	182	(0.81)	.109	(2.77)	167	(0.74)	111	(0.49)
		B62A	420*	(1.87)	.051	(1.29)	420*	(1.87)	420*	(1.87)
36	(914)	**B62**	121	(0.54)	.245	(6.22)	74	(0.33)	50	(0.22)
		B62A	341	(1.51)	.141	(3.58)	341	(1.51)	242	(1.07)
48	(1219)	**B62**	91	(0.40)	.436	(11.07)	42	(0.18)	28	(0.12)
		B62A	256	(1.14)	.250	(6.35)	204	(0.91)	136	(0.60)
60	(1524)	**B62**	73	(0.32)	.681	(17.30)	27	(0.12)	18	(0.08)
		B62A	205	(0.91)	.391	(9.93)	131	(0.58)	87	(0.39)
72	(1829)	**B62**	61	(0.27)	.981	(24.92)	19	(0.08)	12	(0.05)
		B62A	170	(0.75)	.563	(14.30)	91	(0.40)	61	(0.27)

Based on simple beam condition using an allowable design stress of 25,000 psi (172 MPa) in accordance with MFMA, with adequate lateral bracing (see page 12 for further explanation). Actual yield point of cold rolled steel is 42,000 psi. To determine concentrated load capacity at mid span, multiply uniform load by 0.5 and corresponding deflection by 0.8. *Failure determined by weld shear.

Column Loading

Unbraced Height In.	Unbraced Height mm	Channel Style	Max. Column Loading K = .80 Loaded@ C.G. Lbs.	Max. Column Loading K = .80 Loaded@ C.G. kN	Max. Column Loading K = .80 Loaded@ Slot Face Lbs.	Max. Column Loading K = .80 Loaded@ Slot Face kN	Max. Column Loading (Loaded @ C.G.) K = .65 Lbs.	K = .65 kN	K = 1.0 Lbs.	K = 1.0 kN	K = 1.2 Lbs.	K = 1.2 kN
12	(305)	**B62**	2052	(9.13)	820	(3.65)	2161	(9.61)	1890	(8.41)	1715	(7.63)
		B62A	4666	(20.75)	1449	(6.44)	4710	(20.95)	4593	(20.43)	4503	(20.03)
24	(609)	**B62**	1350	(6.00)	645	(2.87)	1624	(7.22)	1020	(4.54)	818	(3.64)
		B62A	4275	(19.01)	1367	(6.08)	4453	(19.81)	3982	(17.71)	3624	(16.12)
36	(914)	**B62**	818	(3.64)	471	(2.09)	1053	(4.68)	633	(2.81)	515	(2.29)
		B62A	3624	(16.12)	847	(3.77)	4023	(17.89)	2965	(13.19)	2179	(9.69)
48	(1219)	**B62**	589	(2.62)	369	(1.64)	745	(3.31)	456	(2.03)	365**	(1.62)
		B62A	2713	(12.06)	504	(2.24)	3421	(15.21)	1765	(7.85)	1225	(5.45)
60	(1524)	**B62**	456	(2.03)	300	(1.33)	579	(2.57)	347**	(1.54)	271**	(1.20)
		B62A	1765	(7.85)	323	(1.44)	2647	(11.77)	1129	(5.02)	784**	(3.49)
72	(1829)	**B62**	365**	(1.62)	248	(1.10)	470	(2.09)	271**	(1.20)	–	–
		B62A	1225	(5.45)	224	(0.99)	1856	(8.25)	784**	(3.49)	545**	(2.42)

**Where the slenderness ratio $\frac{KL}{r}$ exceeds 200, and K = end fixity factor, L = actual length and r = radius of gyration.

Reference page 201 for general fitting specifications.