Legrand North and Central America
8319 State Route 4
Mascoutah, IL,62258

www.legrand.com

Product Environmental Profile

Wire cable tray system CABLOFIL GC

COMPANY OVERVIEW

• Sustainability built in to support our associates, customers, and the environment
At Legrand North and Central America, we're committed to leading by example within our own operations, to developing high quality solutions for our customers' High Performance Buildings, and to transforming how people live and work – more safely, more comfortably, more efficiently.

• Better Performance
A core principle of designing for sustainability drives us to innovate products and systems that enable buildings to reach exceptional levels of performance, bringing about industry-leading ideas, inventions and initiatives.

• Better Operations
A commitment to a leadership role in operational excellence through environmental management, optimizing the way we manage energy, water and waste.

• Better Lives
A dedication to enhancing employee and community welfare through programs that help people enjoy healthier, more productive and more rewarding lives.

For more information on Legrand's PEPs and other sustainability initiatives, visit legrand.us/sustainability.

LEGRAND'S ENVIRONMENTAL COMMITMENTS

• Incorporate environmental management into our industrial sites
Of all Legrand sites worldwide, over 85% are ISO 14001 certified (sites belonging to Legrand for more than five years).

• Offer our customers environmentally friendly solutions
Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations.

• Involve the environment in product design
Reduce the environmental impact of products over their whole life cycle.
Provide our customers with all relevant information (composition, consumption, end of life, etc.).

REFERENCE PRODUCT

Function	Support the wiring along 1 meter for a reference lifetime of 20 years. The Cablofil 105/300 system, capable of supporting a load of 189 kg per meter for on a span of 1.5m, includes the profile and cable management and support accessories typical of standard use.
Reference Product	
	Part Number CF 105/300 GC
	Wire cable tray system CF105/300 GC

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PRODUCTS CONCERNED

The environmental data is representative of the following products:

The total Cablofil wire cable tray product range in the hot dip galvanized finish after manufacturing, as presented in all relevant catalogues (54 x 50 to 150 x 900)- list available upon request from customer service.

CONSTITUENT MATERIALS

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market.

It respects the restrictions on use of hazardous substances as defined in the RoHS directive 2011/65/EC and does not contain, as far as we know, any substance on the candidate list at the time the PEP was published for authorization of the REACH regulation(EC) no. 1907/2006 with a concentration above 0.1% w/w.

Total weight of Reference Product with unit packaging	**392 g**

Plastics as % of weight		**Metals as % of weight**		**Others as % of weight**	
Product					
		Hot Dip Galvanized Steel	**97%**		
Packaging					
Polypropylene	**<1%**			Wood	**2.6%**
Low-density polyethylene	**<1%**			Cardboard	**<1%**
Total plastics	**<1%**	**Total metals**	**97%**	**Total others**	**3%**

Estimated recycled material content: 88% of weight.

MANUFACTURING

This Reference Product come from a site that observes the applicable legislation for industrial sites.

DISTRIBUTION

Information on the average distance of distribution is available and a 1136km distance by heavy truck was used. This represents transportation of the Reference Product from our warehouse to the local point of distribution in the North American market.

INSTALLATION

No electricity is required for installing the Reference Product.

USE

Servicing and maintenance:
Under normal conditions of use, this type of product requires no servicing or maintenance.

Consumable:
No consumables are necessary to use this type of product.

END OF LIFE

• **Hazardous waste* contained in the product:** no hazardous waste
(*) Hazardous waste as defined by European Commission decision 2000/532/EC.

• **Recycling rate:**
The estimated recyclability rate of this product is 100%, however as there was not have visibility into the product fate by the customer, the disposal pathway was calculated using the US EPA's Advancing Sustainable Materials Management: 2018 Facts and Figures Report. The total recycling rate of the Reference Product is estimated as 27.8%. This value is based on data collected from a technological channel using industrial procedures. It does not pre-validate the effective use of this channel for end-of-life electrical and electronic products.

Separated into:	(% mass of Reference Product excluding packaging)
- plastic materials:	0%
- metal materials:	27.1%
- other materials:	0%
Recycling rate of packaging (all types of materials):	0.7%

ENVIRONMENTAL IMPACTS

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use, and end of life. It is representative of products marketed and used in North America.

The following modelling elements were taken into account:

Manufacturing	Packaging taken into account. As required by the PEP ecopassport program, all transport for the manufacturing of the Reference Product, including materials and components, has been taken into account. The waste generated during manufacturing phase has been taken into account.
Distribution	Transport between the last distribution center and an average delivery to the sales area. Information on the average distance of distribution is available and a 1136km distance by heavy truck was used.
Installation	The end of life of the packaging (0.102 kg) is taken into account at this phase. Transport of packaging to end of life treatment.
Use	• Under normal conditions of use, this type of product requires no servicing or maintenance. • No consumables are necessary to use this type of product. • Product category: Cable tray systems • Use scenario: None required • Energy model: No applicable
End of life	The default end of life scenario modelled maximizes the environmental impact using the PCR hypothesis for "Local transport": 621 miles (1000 km) by heavy truck and landfilling.
Software used	EIME v.5.9.4 and its database "CODDE-2022-01"

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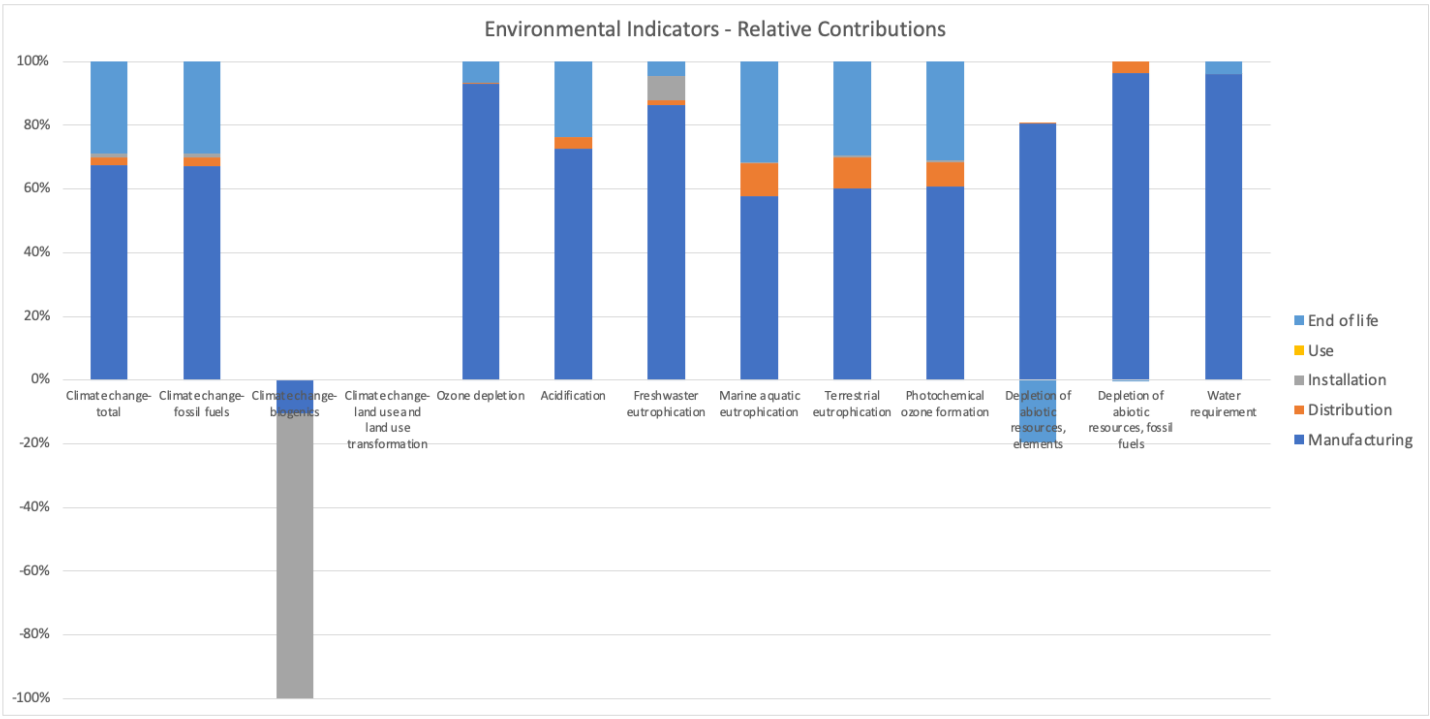
ENVIRONMENTAL IMPACTS

	Total for Life cycle		Raw material and manufacturing		Distribution		Installation		Use		End of life	
Climate change, total (GWP)	9.72E+00	**kg CO_2 eq.**	6.56E+00	**67%**	2.51E-01	**3%**	9.08E-02	**1%**	0.00E+00	**0%**	2.82E+00	**29%**
Climate change, fossil fuels (GWPf)	9.75E+00	**kg CO_2 eq.**	6.56E+00	**67%**	2.51E-01	**3%**	1.20E-01	**1%**	0.00E+00	**0%**	2.82E+00	**29%**
Climate change, biogenics (GWPb)	-3.26E-02	**kg CO_2 eq.**	-3.35E-03	**10%**	0.00E+00	**0%**	-2.92E-02	**90%**	0.00E+00	**0%**	0.00E+00	**0%**
Climate change, land use and land use transformation	0.00E+00	**kg CO_2 eq.**	0.00E+00	**0%**	0.00E+00	**0%**	0.00E+00	**0%**	0.00E+00	**0%**	0.00E+00	**0%**
Ozone depletion potential (ODP)	2.34E-07	**kg CFC-11 eq.**	2.18E-07	**93%**	3.84E-10	**0%**	2.90E-10	**0%**	0.00E+00	**0%**	1.53E-08	**7%**
Acidification (AP)	4.29E-02	**mol H+ eq.**	3.11E-02	**73%**	1.59E-03	**4%**	9.74E-05	**0%**	0.00E+00	**0%**	1.01E-02	**24%**
Freshwater eutrophication (Epf)	6.83E-06	**kg P eq.**	5.90E-06	**86%**	9.40E-08	**1%**	5.20E-07	**8%**	0.00E+00	**0%**	3.14E-07	**5%**
Marine aquatic eutrophication (Epm)	7.31E-03	**kg N eq.**	4.22E-03	**58%**	7.44E-04	**10%**	4.22E-05	**1%**	0.00E+00	**0%**	2.30E-03	**31%**
Terrestrial eutrophication (Ept)	8.34E-02	**kg N eq.**	5.02E-02	**60%**	8.16E-03	**10%**	4.34E-04	**1%**	0.00E+00	**0%**	2.46E-02	**29%**
Photochemical ozone formation (POCP)	2.64E-02	**kg NMVOC eq.**	1.60E-02	**61%**	2.06E-03	**8%**	1.38E-04	**1%**	0.00E+00	**0%**	8.17E-03	**31%**
Resource use, mineral (ADPe)	8.63E-05	**kg SB eq.**	1.14E-04	**132%**	9.86E-09	**0%**	-3.33E-10	**0%**	0.00E+00	**0%**	-2.77E-05	**-32%**
Resource use, fossil (ADPf)	9.32E+01	**MJ**	8.97E+01	**96%**	3.49E+00	**4%**	-3.33E-10	**0%**	0.00E+00	**0%**	-2.77E-05	**0%**
Water requirement (WU)	3.19E+01	**m^3**	3.06E+01	**96%**	4.39E-03	**0%**	4.10E-03	**0%**	0.00E+00	**0%**	1.27E+00	**4%**

The values of the 32 impacts defined in the PCR-4-ed4-EN-2021 09 06 are available in the digital database of pep-ecopassport.org website. The environmental impacts of the Reference Product are representative of the products covered by the PEP, which therefore constitute a homogeneous environmental family.

ENVIRONMENTAL IMPACTS



The environmental impact of the Reference Product occurs predominantly during the raw materials and manufacturing phase.

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ENVIRONMENTAL IMPACTS

For products other than the Reference Product, the environmental impacts are:

Designation	Correction Factor	Designation	Correction Factor
CF 54/50	0.39	**CF 105/350**	1.05
CF 54/100	0.44	**CF 105/400**	1.12
CF 54/150	0.49	**CF 105/450**	1.19
CF 54/200	0.54	**CF 105/500**	1.24
CF 54/250	0.59	**CF 105/550**	1.30
CF 54/300	0.71	**CF 105/600**	1.35
CF 54/350	0.78	**ZF 105/750**	1.55
CF 54/400	0.94	**ZF 105/900**	1.68
CF 54/450	1.06	**CF 150/150**	0.92
CF 54/500	1.18	**CF 150/200**	1.03
CF 54/550	1.21	**CF 150/250**	1.07
CF 54/600	1.24	**CF 150/300**	1.12
CF 54/750	1.43	**CF 150/350**	1.14
ZF 54/900	1.61	**CF 150/400**	1.17
CF 105/100	0.54	**CF 150/450**	1.20
CF 105/150	0.58	**CF 150/500**	1.25
CF 105/200	0.71	**CF 150/550**	1.41
CF 105/250	0.81	**CF 150/600**	1.58
CF 105/300*	1.00*	**ZF 150/900**	1.51

*CF 105/300 is the reference product used for the correction factor calculation.

Registration number: LGRP-00513-V02.01-EN	Drafting rules: "PCR-4-ed4-EN-2021 09 06" Supplemented by "PSR-003-ed1.1-EN-2015 10 16"
Verifier's accreditation number: VH43	Information and reference documents: **www.pep-ecopassport.org**
Date of issue: 10-2022	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025:2010 Internal ☐ External ☒	
The PCR Review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN).	
The elements of the present PEP cannot be compared with elements from another program.	
Document in compliance with ISO 14025:2010: "Environmental labels and declarations - Type III environmental declarations"	
In compliance with ISO 14040:2006: "Environmental management – LCA – Principles and framework" In compliance with ISO 14044:2006: "Environmental management – LCA – Requirements and guidelines"	