

128 av. du Maréchal-de-Lattre-de-Tassigny 87045 Limoges Cedex France Tel. +33 (0) 555068787 Fax. +33 (0) 555068888

Your usual Sales office www.legrand.com

# **Product Environmental Profile**

ZF31 wire cable tray system stainless steel





#### ■ 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 the Group 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 and provide informations in compliance with ISO 14025

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	The cable tray system, capab	neter for a reference service li ple of supporting a load of 29, port accessories typical of sta	1 kg per meter on a span of 1.	5 m, includes the profile and
Reference Product	LG-3	48074	LG-3	50834
	Wire mesh cable trays	200x75 - Stainless steel	Compact bracks	et CB 200 SS316L
				To Cod
	LC-558054	LC-558954	LC-801014	LG-585367
	CE40	KITINOX (CE30 + CE25 + EEC6)	BTRCC 6x20	Brass terminal

The company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in the document are for guidance and cannot be held binding on the company.



#### ■ PRODUCTS CONCERNED ■

The environmental data is representative of the following products: the whole offer of ZF31 wire cable tray system stainless steel, as presented in catalogs (list of codes available upon request through our Technical Customer Service).



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#### **CONSTITUENT MATERIALS I**

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/EU.

Total weight of	
Reference Product	1463 g (with unit packaging)

Plastics as % of weight		Metals as % of weight		Other (packaging) as % of weight		
Various plastics 0,1 %		Steel	95,8 %	Wood	2,0 %	
		Copper alloys	0,4 %	Paper	0,9 %	
		Aluminum	< 0,1 %	Polyethylene	0,8 %	
				Polypropylene	< 0,1 %	
Total plastics	0,1 %	Total metals	96,2 %	Total other (packaging)	3,7 %	

Estimated recycled material content: 42 % by mass.



### **MANUFACTURE**

This Reference Product comes from sites that have received ISO14001 certification.



### **■** DISTRIBUTION **■**

Products are distributed from logistics centres located with a view to optimize transport efficiency. The Reference Product is therefore transported over an average distance of 780 km by road from our warehouse to the local point of distribution into the european market.

Packaging is compliant with european directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 74 % (in % of packaging weight).



#### **■ INSTALLATION I**

For the installation of the product, only standard tools are needed.



#### USE USE

Under normal conditions of use, this product requires no servicing, no maintenance or additional products.



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#### ■ END OF LIFE ■

The product end-of-life factors are taken into account during the design phase. Dismantling and sorting of components or materials is made as easy as possible with a view to recycling or failing that, another form of reuse.

#### • Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 99 %. This value is based on data collected from a technological channel operating on an industrial basis. It does not pre-validate the effective use of this channel for the end of life of this product.

Separated into:

plastic materials (excluding packaging)
metal materials (excluding packaging)
packaging (all types of materials)
3 %



#### **■ 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 from products marketed and used in Europe, in compliance with the local current standards.

For each phase, the following modelling elements were taken in account:

Manufacture	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
Distribution	Transport between the last Group distribution centre and an average delivery point in the sales area.
Installation	The end of life of the packaging.
Use	<ul> <li>Product category: PSR-0003-ed1.1-EN-2015 10 16 - 3.2.2.1. Cable tray system.</li> <li>Use scenario: no energy consumption during the 20 years working life. This modelling duration does not constitute a minimum durabilty requirement.</li> <li>Energy model: Electricity Mix Europe 27 - 2002.</li> </ul>
End of life	The default end of life scenario maximizing the impacts.
Software and database used	EIME V5 and its database «CODDE-2015-04»



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### ■ SELECTION OF ENVIRONMENTAL IMPACTS ■

	Total for I	Life cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	•
Global warming	8.45E+00	kgCO <sub>2</sub> eq.	8.29E+00	98%	5.68E-02	< 1%	1.08E-02	< 1%	0.00E+00	0%	9.05E-02	1%
Ozone depletion	1.88E-06	kgCFC-11 eq.	1.88E-06	100%	1.15E-10	< 1%	9.27E-11	< 1%	0.00E+00	0%	5.82E-10	< 1%
Acidification of soils and water	1.67E-02	kgSO <sub>2</sub> eq.	1.61E-02	96%	2.55E-04	2%	4.61E-05	< 1%	0.00E+00	0%	3.83E-04	2%
Water eutrophication	3.03E-03	kg(P0 <sub>4</sub> )³- eq.	2.27E-03	75%	5.87E-05	2%	6.19E-05	2%	0.00E+00	0%	6.41E-04	21%
Photochemical ozone formation	1.97E-03	kgC <sub>2</sub> H <sub>4</sub> eq.	1.95E-03	99%	1.81E-05	< 1%	3.43E-06	< 1%	0.00E+00	0%	5.82E-10	< 1%
Depletion of abiotic resources - elements	9.74E-04	kgSb eq.	9.74E-04	100%	2.27E-09	< 1%	4.87E-10	< 1%	0.00E+00	0%	3.80E-09	< 1%
Total use of primary energy	2.02E+02	MJ	1.99E+02	99%	8.03E-01	< 1%	1.50E-01	< 1%	0.00E+00	0%	1.22E+00	< 1%
Net use of fresh water	1.06E-01	m³	1.06E-01	100%	5.08E-06	< 1%	3.53E-06	< 1%	0.00E+00	0%	2.32E-05	< 1%
Depletion of abiotic resources - fossil fuels	1.01E+02	МЛ	9.92E+01	98%	7.98E-01	< 1%	1.46E-01	< 1%	0.00E+00	0%	1.19E+00	1%
Water pollution	2.45E+02	m³	2.21E+02	90%	9.34E+00	4%	1.54E+00	< 1%	0.00E+00	0%	1.29E+01	5%
Air pollution	1.84E+03	m³	1.83E+03	100%	2.33E+00	< 1%	7.44E-01	< 1%	0.00E+00	0%	5.13E+00	< 1%

The values of the 27 impacts defined in the PCR-ed3-EN-2015 04 02 are available in the digital database of pep-ecopassport.org website.

For products covered by the PEP other than the Reference Product, the environmental impacts of each phase of the lifecycle are calculated multiplying the values of environmental indicators for the correspondant factor:

Section	Coefficient
75X25	0,42
100X25	0,44
150X25	0,55
200X25	0,74
300X25	1,12
75X50	0,56
100X50	0,57

Section	Coefficient
150x50	0,69
200x50	0,90
300x50	1,23
400x50	1,71
500x50	2,54
75x75	0,60
100x75	0,64

Section	Coefficient
150x75	0,75
200x75	1,00
300x75	1,40
400x75	1,97
500x75	2,60
600x75	2,95
100x100	0,85

Section	Coefficient
200x100	1,16
300x100	1,63
400x100	2,15
500x100	2,78
600x100	3,13

Registration N°: LGRP-00131-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 0 Supplemented by «PSR-0003-ed1.1-EN-2018			
Verifier accreditation N°: VH02	Information and reference documents : www	Information and reference documents : www.pep-ecopassport.org		
Date of issue: 04-2016 Validity period: 5 years				
Independent verification of the declaration and data, in cor Internal 🖾 External 🔲	mpliance with ISO 14025:2010	PEP		
The PCR review was conducted by a panel of experts chair	ed by Philippe Osset (SOLINNEN)			
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The elements of the present PEP cannot be compared with		PASS		

Environmental data in alignment with EN 15804: 2012 + A1: 2013