

Product Environmental Profile

Cable ladder system GL04 - Pregalvanised finish



LEGRAND'S ENVIRONMENTAL COMMITMENTS

• **Incorporate environmental management into our industrial sites**

Of all Legrand sites worldwide, over 80% are ISO 14001-certified (sites belonging to the Group for more than five years).

• **Involve the environment in product design**

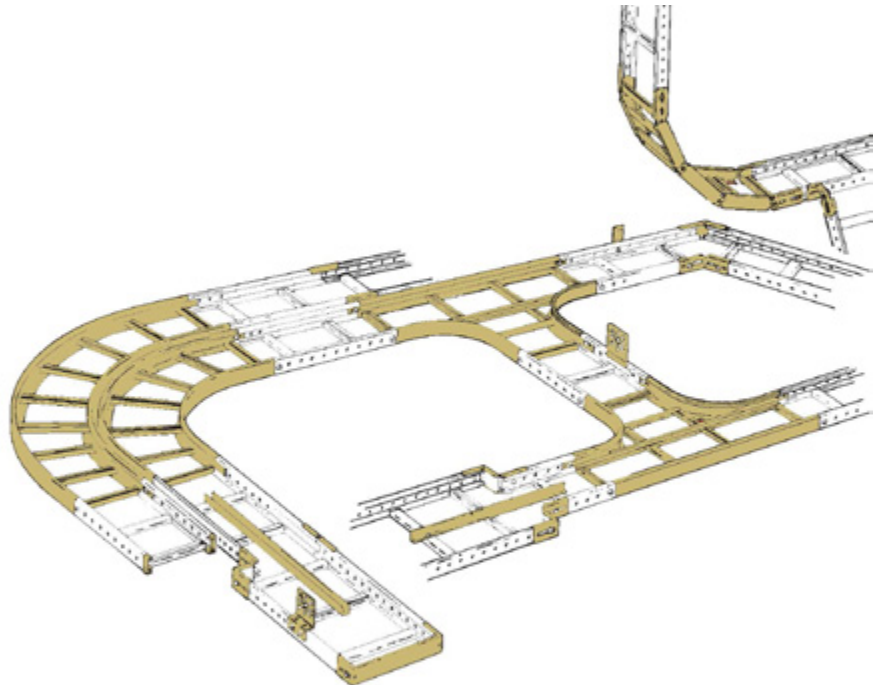
Provide our customers with all relevant information (composition, consumption, end of life, etc.).
Reduce the environmental impact of products over their whole life cycle.

• **Offer our customers environmentally friendly solutions**

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



REFERENCE PRODUCT

Function	Support the wiring along 1 meter for a reference service life of 20 years. The cable ladder system GL04 60/3/300 GS, capable of supporting a load of 45 kg per meter on a span of 2 m, includes the profile and cable management and support accessories typical of standard use.
Reference Product	 <p>Cat.No 8 311 133 - 8 312 153 - 8 312 113 - 8 313 180 - 5 853 67 - 5 572 43 - 8 367 030 - 8 200 100 - 8 200 200 Cable ladder system GL04L60/3/300 - 300 mm - Pregalvanised finish.</p>

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 are representative of the following products:

Catalogue Numbers
The total Legrand GL04 product range in pregalvanised finish, as presented in all relevant catalogues (60 x 200 to 100 x 600) - List available on request from the customer service.

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■ CONSTITUENT MATERIALS

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

Total weight of Reference Product	4178 g (with unit packaging)				
Plastics as % of weight		Metals as % of weight		Other as % of weight	
		Steel	91,2 %		
		Copper alloys	0,1 %		
		Al	< 0,1 %		
				Packaging as % of weight	
				Other	8,3 %
				Paper	0,3 %
				PE	< 0,1 %
Total plastics	0 %	Total metals	91,4 %	Total other and packaging	8,6 %

Estimated recycled material content: 41 % of weight.



■ MANUFACTURE

The Reference Product comes from sites that, in their majority, has 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 460 km by road from our warehouse to the local point of distribution into the market in Europe. Packaging is compliant with European directive 2004/12/EC concerning packaging and packaging waste. At the packaging end of life, its recycling rate is of 23 % (in % of the mass of the packaging).



■ INSTALLATION

Installation components not delivered with the product are not taken into account.



■ 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 the Reference Product.



END OF LIFE

Product end of life management is integrated in to product design by the development teams. The 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 the IEC/TR 62635 technical report, the recyclability rate of the product is estimated as 93 %. 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:

- plastic materials (excluding packaging) : 0 %
- metal materials (excluding packaging) : 91 %
- other materials (excluding packaging) : 0 %
- packaging (all types of materials) : 2 %



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.

The following modelling elements were taken into account:

Manufacture	Unit packaging taken into account. As required by the "PEP ecopassport" programme all transport for the manufacturing of the Reference Product, including materials and components, has been taken in account.
Distribution	Transport between the last Group distribution centre and an average delivery to the sales area.
Installation	Installation components not delivered with the product are not taken into account.
Use	<ul style="list-style-type: none"> • 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: envelope. • Use scenario: no energy consumption during the 20 years working life. This modelling duration does not constitute a minimum durability requirement. • Energy model: Electricity (Europe) - 2005
End of life	In view of the data available on the date of creation of the document, and in accordance with the requirements of the PCR of the «PEP ecopassport» programme, transport of the Reference Product by road only once, over a distance of 1000 km, to a processing site at end of life was counted.
Software used	EIME V5 and its database «Legrand-2012-10-31 version 3» made from the database «CODDE-2012-07»

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ENVIRONMENTAL IMPACTS (continued)

		Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Mandatory indicators	Global warming	1,22E+04	g~CO ₂ eq.	1,17E+04	96 %	2,28E+02	2 %	0,00E+00	0 %	0,00E+00	0 %	3,18E+02	3 %
	Ozone depletion	4,52E-04	g~CFC-11 eq.	6,52E-05	14 %	1,61E-04	36 %	0,00E+00	0 %	0,00E+00	0 %	2,25E-04	50 %
	Water eutrophication	2,55E-01	g~PO ₄ ³⁻ eq.	2,46E-01	96 %	3,79E-03	1 %	0,00E+00	0 %	0,00E+00	0 %	5,30E-03	2 %
	Photochemical ozone creation	9,63E-01	g~C ₂ H ₄ eq.	4,89E-01	51 %	1,98E-01	21 %	0,00E+00	0 %	0,00E+00	0 %	2,76E-01	29 %
	Air acidification	1,16E+00	g~H+ eq.	1,09E+00	94 %	2,91E-02	3 %	0,00E+00	0 %	0,00E+00	0 %	4,20E-02	4 %
	Total energy depletion	1,52E+02	MJ	1,46E+02	95 %	2,88E+00	2 %	0,00E+00	0 %	0,00E+00	0 %	4,02E+00	3 %
	Water depletion	1,03E+02	dm ³	1,02E+02	99 %	2,74E-01	< 1 %	0,00E+00	0 %	0,00E+00	0 %	3,82E-01	< 1 %

Optional indicators	Raw material depletion	6,30E-15	year ⁻¹	6,29E-15	100 %	3,93E-18	< 1 %	0,00E+00	0 %	0,00E+00	0 %	5,49E-18	< 1 %
	Air toxicity	1,68E+06	m ³	1,58E+06	94 %	4,30E+04	3 %	0,00E+00	0 %	0,00E+00	0 %	6,22E+04	4 %
	Water toxicity	3,25E+00	m ³	3,17E+00	98 %	3,18E-02	< 1 %	0,00E+00	0 %	0,00E+00	0 %	4,44E-02	1 %
	Hazardous waste production	2,95E-03	kg	2,75E-03	93 %	8,49E-05	3 %	0,00E+00	0 %	0,00E+00	0 %	1,18E-04	4 %

The environmental impacts of the Reference Product are representative of the products covered by the PEP, which therefore constitute a homogeneous environmental family. The environmental impact of the system, described in this document and different of the Reference Product, can be estimated by weighting the environmental impacts of the Reference Product by the corresponding factors (see p. 5).

The values of these impacts are valid for the context specified in this document. They must not be used directly to draw up the environmental balance sheet for the installation.

N°enregistrement : LGRP-2013-175-V1-EN	Règles de rédaction : PCR : PEP-PCR-ed 2.1-FR-2012 12 11 complété par le PSR : PSR0003-ed1-FR-20120202
N° d'habilitation du vérificateur : VH02	Information programme : www.pep-ecopassport.org
Date d'édition : 10-2013	Durée de validité : 4 ans
Vérification indépendante de la déclaration et des données, conformément à l'ISO 14025:2006 Interne <input checked="" type="checkbox"/> Externe <input type="checkbox"/>	
Conforme à la norme ISO 14025 : 2006 déclarations environnementales de type III	
La revue critique du PCR a été conduite par un panel d'experts présidé par J.Chevalier (CSTB)	
Les éléments du présent PEP ne peuvent pas être comparés avec les éléments issus d'un autre programme	





ENVIRONMENTAL IMPACTS (continued)

Heigh 60

Heigh 100

Designation	Correction factor to apply to each indicators, for each life cycle steps or to the total life cycle
GLO4L60/3/200 GS - 300mm	0,92
GLO4L60/3/300 GS - 300mm	1,00
GLO4L60/3/400 GS - 300mm	1,09
GLO4L60/3/500 GS - 300mm	1,26
GLO4L60/3/600 GS - 300mm	1,37
GLO4L60/6/200 GS - 300mm	0,92
GLO4L60/6/300 GS - 300mm	1,01
GLO4L60/6/400 GS - 300mm	1,10
GLO4L60/6/500 GS - 300mm	1,26
GLO4L60/6/600 GS - 300mm	1,38
GLO4L60/3/200 GS - 200mm	0,95
GLO4L60/3/300 GS - 200mm	1,06
GLO4L60/3/400 GS - 200mm	1,17
GLO4L60/3/500 GS - 200mm	1,37
GLO4L60/3/600 GS - 200mm	1,50
GLO4L60/6/200 GS - 200mm	0,96
GLO4L60/6/300 GS - 200mm	1,06
GLO4L60/6/400 GS - 200mm	1,18
GLO4L60/6/500 GS - 200mm	1,37
GLO4L60/6/600 GS - 200mm	1,51
GLO4L60/3/200 GS - 100mm	1,05
GLO4L60/3/300 GS - 100mm	1,21
GLO4L60/3/400 GS - 100mm	1,39
GLO4L60/3/500 GS - 100mm	1,69
GLO4L60/3/600 GS - 100mm	1,88
GLO4L60/6/200 GS - 100mm	1,06
GLO4L60/6/300 GS - 100mm	1,22
GLO4L60/6/400 GS - 100mm	1,40
GLO4L60/6/500 GS - 100mm	1,70
GLO4L60/6/600 GS - 100mm	1,90
GLO4M60/3/200 GS - 300mm	0,96
GLO4M60/3/300 GS - 300mm	1,08
GLO4M60/3/400 GS - 300mm	1,19
GLO4M60/3/500 GS - 300mm	1,35
GLO4M60/3/600 GS - 300mm	1,50
GLO4M60/6/200 GS - 300mm	0,99
GLO4M60/6/300 GS - 300mm	1,11
GLO4M60/6/400 GS - 300mm	1,21
GLO4M60/6/500 GS - 300mm	1,38
GLO4M60/6/600 GS - 300mm	1,52
GLO4M60/3/200 GS - 200mm	1,02
GLO4M60/3/300 GS - 200mm	1,16
GLO4M60/3/400 GS - 200mm	1,31
GLO4M60/3/500 GS - 200mm	1,50
GLO4M60/3/600 GS - 200mm	1,68
GLO4M60/6/200 GS - 200mm	1,05
GLO4M60/6/300 GS - 200mm	1,19
GLO4M60/6/400 GS - 200mm	1,33
GLO4M60/6/500 GS - 200mm	1,52
GLO4M60/6/600 GS - 200mm	1,69

Designation	Correction factor to apply to each indicators, for each life cycle steps or to the total life cycle
GLO4L100/3/200 GS - 300mm	1,16
GLO4L100/3/300 GS - 300mm	1,23
GLO4L100/3/400 GS - 300mm	1,32
GLO4L100/3/500 GS - 300mm	1,45
GLO4L100/3/600 GS - 300mm	1,60
GLO4L100/6/200 GS - 300mm	1,19
GLO4L100/6/300 GS - 300mm	1,27
GLO4L100/6/400 GS - 300mm	1,35
GLO4L100/6/500 GS - 300mm	1,48
GLO4L100/6/600 GS - 300mm	1,62
GLO4L100/3/200 GS - 200mm	1,19
GLO4L100/3/300 GS - 200mm	1,29
GLO4L100/3/400 GS - 200mm	1,39
GLO4L100/3/500 GS - 200mm	1,57
GLO4L100/3/600 GS - 200mm	1,72
GLO4L100/3/200 GS - 100mm	1,29
GLO4L100/3/300 GS - 100mm	1,44
GLO4L100/3/400 GS - 100mm	1,61
GLO4L100/3/500 GS - 100mm	1,89
GLO4L100/3/600 GS - 100mm	2,11
GLO4M100/3/200 GS - 300mm	1,21
GLO4M100/3/300 GS - 300mm	1,33
GLO4M100/3/400 GS - 300mm	1,45
GLO4M100/3/500 GS - 300mm	1,56
GLO4M100/3/600 GS - 300mm	1,76
GLO4M100/6/200 GS - 300mm	1,26
GLO4M100/6/300 GS - 300mm	1,38
GLO4M100/6/400 GS - 300mm	1,49
GLO4M100/6/500 GS - 300mm	1,61
GLO4M100/6/600 GS - 300mm	1,80
GLO4M100/3/200 GS - 200mm	1,27
GLO4M100/3/300 GS - 200mm	1,42
GLO4M100/3/400 GS - 200mm	1,57
GLO4M100/3/500 GS - 200mm	1,71
GLO4M100/3/600 GS - 200mm	1,94
GLO4M100/6/200 GS - 200mm	1,32
GLO4M100/6/300 GS - 200mm	1,46
GLO4M100/6/400 GS - 200mm	1,60
GLO4M100/6/500 GS - 200mm	1,75
GLO4M100/6/600 GS - 200mm	1,97