Clegrand

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Your usual Sales office www.legrand.com

Product Environmental Profile

Zucchini busbar LB PLUS System - 40 and 63A





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.).

Function	Allow the energy transport and distribution up to 63A with a IP55 protection degree in industrial and tertiary buildings, allowing at the same time the power supply and the suspension of the lighting bodies, along 1 meter for a reference service life of 20 years, in compliance with the harmonised standards IEC EN 61439-6.
Reference Product	
	6 x 75200101, LG-75201001, LG-75005011, LG-75005012, LG-75005013, LG-75005014, LG-75005000,
	LG-75005100, 15 x LG-75003000, 6 x LG-75003001
	Busbar LB PLUS LBA - 40A - 4 conductors

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 total LB PLUS 40 and 63 A busbar offer, as presented in all relevant catalogues (list available on request at 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. It respects the restrictions on use of hazardous substances as defined in the RoHS directive 2011/65/EU.

Total weight of Reference Product	1566 g (al	1566 g (all packaging included)							
Plastics as % of weight		Metals as % of weight		Other as % of weight					
PVC	6,5 %	Steel	58,6 %	Cables / electric wires	1,6 %				
Polyamide	6,3 %	Copper alloys	14,1 %						
PET	0,3 %								
Polycarbonate	0,2 %								
ABS	0,1 %								
Polypropylene	< 0,1 %								
Other plastics	0,5 %								
	1	Packagi	ng	I					
Polyethylene	6,7 %			Wood	3,3 %				
Polypropylene	< 0,1 %			Paper /cardboard	1,8 %				
Total plastics	20,6 %	Total metals	72,7 %	Total other	6,7 %				

Estimated recycled material content: 27 % 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 42 % (in % of packaging weight).



INSTALLATION

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



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

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END OF LIFE I

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. This product falls within the scope of the WEEE directive (2012/19/EU). Therefore it must be processed through local WEEE recycling/recovery channels.

• Extended producer responsability:

The sale of this product is subject to a contribution to eco-organisations in each country responsible for managing end-of-life products in the field of application of the European Waste Electronic and Electrical Equipment Directive.

• Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 91 %. 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.

: 5 %

Separated into:

- plastic materials (excluding packaging) : 13 %
 metal materials (excluding packaging) : 73 %
- neckaging (all types of materials)
- packaging (all types of materials)



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	 Product category: passive product. Use scenario: non-continuous operation for 20 years at 30% of rated load, during 30% of the time. This modelling duration does not constitute a minimum durabilty requirement. Energy model: Electricity Mix, Europe 27 - 2002.
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 I

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	Total for L	Life cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	2
Global warming	4.48E+01	kgCO ₂ eq.	5.83E+00	13%	6.08E-02	< 1%	1.73E-02	< 1%	3.88E+01	87%	1.05E-01	< 1%
Ozone depletion	9.79E-06	kgCFC-11 eq.	3.63E-07	4%	1.23E-10	< 1%	3.47E-10	< 1%	9.42E-06	96%	1.24E-09	< 1%
Acidification of soils and water	3.06E-01	kgSO ₂ eq.	1.22E-02	4%	2.73E-04	< 1%	6.97E-05	< 1%	2.93E-01	96 %	4.30E-04	< 1%
Water eutrophication	1.39E-02	kg(PO₄)³- eq.	2.09E-03	15%	6.28E-05	< 1%	6.81E-05	< 1%	1.10E-02	79 %	6.59E-04	5%
Photochemical ozone formation	1.56E-02	kgC ₂ H ₄ eq.	1.71E-03	11%	1.94E-05	< 1%	5.29E-06	< 1%	1.39E-02	89%	3.26E-05	< 1%
Depletion of abiotic resources - elements	3.40E-03	kgSb eq.	3.40E-03	100%	2.43E-09	< 1%	1.01E-09	< 1%	1.77E-06	< 1%	5.06E-09	< 1%
Total use of primary energy	9.38E+02	MJ	2.66E+02	28%	8.15E-01	< 1%	1.96E-01	< 1%	6.69E+02	71%	1.21E+00	< 1%
Net use of fresh water	2.13E-01	m ³	1.11E-01	52%	5.44E-06	< 1%	1.21E-05	< 1%	1.01E-01	48%	4.53E-05	< 1%
Depletion of abiotic resources - fossil fuels	4.77E+02	ΓM	7.50E+01	16%	8.54E-01	< 1%	2.46E-01	< 1%	4.00E+02	84%	1.41E+00	< 1%
Water pollution	1.83E+03	m³	1.80E+02	10%	1.00E+01	< 1%	2.17E+00	< 1%	1.63E+03	89 %	1.40E+01	< 1%
Air pollution	3.68E+03	m ³	2.00E+03	54%	2.49E+00	< 1%	1.86E+00	< 1%	1.66E+03	45%	7.76E+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.

The environmental impacts reported in this document refer to 1 meter of installation. To determine the environmental impacts of the installed system is necessary to multiply the above values for the total installation length.

For different types of system, the environmental impacts for each phase of the lifecycle, are obtained multiplying those of Reference Product for these coefficients:

LB Plus 40 and 63 A system	Total	Manufacturing	Distribution	Installation	Use	End of life
LBA 40 A 4 conductors	1,0	1,0	1,0	1,0	1,0	1,0
LBA 40 A 8 conductors	1,2	1,5	1,2	1,0	1,0	1,2
LBA 63 A 4 conductors	2,0	1,6	1,2	1,0	2,3	1,2
LBB 40 A 4 conductors	1,1	1,3	1,5	1,0	1,0	1,5
LBB 40 A 8 conductors	1,3	1,9	1,7	1,1	1,0	1,7
LBB 63 A 4 conductors	2,1	1,9	1,7	1,2	2,3	1,7

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Verifier accreditation N°: VH02	Information and reference documents : www.pep-ecopassport.org			
Date of issue: 06-2018	Validity period: 5 years			
Independent verification of the declaration and data, in complian Internal 🔯 External 🗌	ce with ISO 14025:2010			
The PCR review was conducted by a panel of experts chaired by	Philippe Osset (SOLINNEN)			
PEP are compliant with XP C08-100-1 : 2014 The elements of the present PEP cannot be compared with elem	ents from another program			
Document in compliance with ISO 14025 : 2010: «Environmental declarations»				
Environmental data in alignment with EN 15804 : 2012 + A1 : 201	3			