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Product Environmental Profile

Optimised distribution system VX3800 - HX3400





■ 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 informations (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 to design more energy efficient, better managed and more environmentally friendly installations.



■ REFERENCE PRODUCT ■

Function	Vertical aluminum distribution system for currents up to 800 A, designed for XL³ 800 and XL³ 4000 cabinets and made by profiles and connection kits. Associated to an horizontal distribution system, it allows safe and automatic installations, even in the presence of MCB and MCCB voltage. PCR category: passive product. Life span considered for the study: 20 years.				
Reference Products					

Optimised distribution system - VX3800 - HX3400 composed by:

1 x LG-404508, 1 x LG-404521, 1 x LG-404515, 3 x LG-404503, 3 x LG-404483, 1 x LG-404464, 1 x LG-021100, 1 x LG-404461, 1 x LG-404460, 4 x LG-404433

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



CONCERNED PRODUCTS

The environmental data represent the following Catalogue Numbers:

- LG-404508
- LG-404503
- LG-021100
- LG-404433

- LG-404521
- LG-404483
- LG-404461

- LG-404515
- LG-404464
- LG-404460



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Optimised distribution system VX³ 800 - HX³ 400





■ CONSTITUENT MATERIALS

This product contains no substances prohibited by the regulations applicable at the time of its introduction to the market. At the date of publication of this document, this product contains no substances to which the RoHS directives apply (2002/95/EC and review 2011/65/EC) and and none of the 144 candidate substances covered by appendix XIV of the REACH regulation dated 20/06/2013.

Total weight of Reference	
Products:	42,77 kg (unit packaging included)

Plastics as % of weight		Metals as % of weight		Other as % of weight			
PVC	5,7 %	Aluminum	29,7 %	Electric wires	0,6 %		
Polyamide	4,1 %	Steel	24,4 %	Packaging as % of weight			
Thermosetting	3,7 %	Copper alloys	loys 19,2 % Cardboard / paper				
PET	2,0 %	Zamak	0,9 %	% Polyetylene (LDPE)			
Polycarbonate-ABS alloy	1,9 %	Other metals	0,3 %	0			
Polycarbonate	0,6 %						
Total plastics	18,0 %	Total metals	74,5 %	Total other and packaging	7,5 %		

Estimated recycled material content: 34 % by weight



MANUFACTURE

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



■ DISTRIBUTION **■**

The Group's products are distributed from logistics centres located to optimize transport efficiency.

The Reference Product is therefore transported over an average distance of 780 km, essentially by road, representing a marketing in Europe.

At the packaging end of life, its recycling rate is of 87 % (as % of packaging weight).



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 products.



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■ END OF LIFE I

Development teams integrate product end of life factor in 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 the IEC/TR 62635 technical report, the recyclability rate of the product is estimated as 94 %. 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 electonic products.

Separated into:

- Plastic materials (excluding packaging): 14 %
- Metal materials (excluding packaging): 74 %
- Packaging (all types of materials): 6 %



■ ENVIRONMENTAL IMPACTS I

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use and end of life of the product marketed and used in Europe.

The following modelling elements were taken into account:

Manufacture	Unit packaging taken in account. As required by the «PEP ecopassport» programme all transports for the manufact 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	 Maintenance: under normal conditions of use, this type of product requires no servicing or maintenance. No consumables are necessary to use the product. Product category: passive product Use scenario: continuous operation (100% of the time) at 30% of rated load. 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, was counted transport of the Reference Product by road only once, over a distance of 1000 km, to a processing site at end of life.							
Software used	EIME V5 and its database «Legrand-2012-10-31 version 3» developed from database «CODDE-2012-07».							



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■ ENVIRONMENTAL IMPACTS

		Total for L	ife cycle	Raw material a manufactu		Distributio	on	Installatio	n	Use		End of life	.
	Contribution to greenhouse effect	5.35E+03	kg~CO ₂ eq.	3.14E+02	6%	4.23E+00	< 1%	0,00E+00	0%	5.03E+03	94%	3.25E+00	< 1%
	Damage to the ozone layer	3.22E-04	kg~CFC-11 eq.	4.31E-05	14%	3.00E-06	< 1%	0,00E+00	0%	2.73E-04	85%	2.31E-06	< 1%
indicators	Eutrophisation of water	2.84E-02	kg~PO ₄ ³- eq.	1.65E-02	58%	7.05E-05	< 1%	0,00E+00	0%	1.18E-02	42%	5.42E-05	< 1%
	Photochemical ozone formation	1.89E+00	kg~C₂H₄ eq.	1.23E-01	6%	3.68E-03	< 1%	0,00E+00	0%	1.76E+00	93%	2.83E-03	< 1%
Mandatory	Acidification of the air	7.62E-01	kg~H⁺ eq.	8.55E-02	11%	5.60E-04	< 1%	0,00E+00	0%	6.75E-01	89%	4.30E-04	< 1%
_	Total energy consumed	1.05E+05	MJ	5.49E+03	5%	5.36E+01	< 1%	0,00E+00	0%	9.97E+04	95%	4.12E+01	< 1%
	Consumption of water	1.69E+04	dm³	2.47E+03	15%	5.09E+00	< 1%	0,00E+00	0%	1.44E+04	85%	3.91E+00	< 1%

ırs	Depletion of natural resources	8.97E-13	years ⁻¹	7.83E-13	87%	7.31E-17	< 1%	0,00E+00	0%	1.13E-13	13%	5.62E-17	< 1%
indicator	Toxicity of the air	9.98E+08	m³	1.63E+08	16%	8.28E+05	< 1%	0,00E+00	0%	8.34E+08	84%	6.37E+05	< 1%
Optional i	Toxicity of the water	1.56E+03	m³	1.19E+02	8%	5.91E-01	< 1%	0,00E+00	0%	1.44E+03	92%	4.54E-01	< 1%
Ор	Production of hazardous waste	1.10E+02	kg	2.69E+01	24%	1.58E-03	< 1%	0,00E+00	0%	8.35E+01	76%	1.21E-03	< 1%

The environmental impacts of the Reference Product are representative of the products covered by the PEP, which therefore constitute a homogeneous environmental family.

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.

Registration number: LGRP-2013-180-v1-en	Drafting rule: PEP-PCR-ed2.1-FR-2012 12 11 and PSR-0005-ed1-FR-2012 12 11					
Authorisation number of checker: VH02	Programme information: www.pep-ecopassport.org					
Date of issue: October 2013	Validity period: 4 years					
Independent verification of the declaration and data, in accordant Interne 🔀 Externe 🔲	nce with ISO 14025:2006					
In accordance with ISO 14025 :2006 Type III environmental declaration						
The critical review of the PCR was conducted by a panel of experts chaired by J.Chevalier (CSTB)						
The elements of the present PEP cannot be compared with elem	ents from another programme PORT®					