

128 av. du Maréchal-de-Lattre-de-Tassigny 87045 Limoges Cedex France Tel. +33 (0) 5 55 06 87 87 Fax. +33 (0) 5 55 06 88 88

Product Environmental Profile

Vertical supply bar VX³





Your usual Sales office www.legrand.com



■ 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	Supplies electricity to supply prong-type busbars, entry terminals, standard distribution, single pole + neutra connected during a life time of 20 years. U = 230/400 V; DU = 20 mV; Sn = 63 A; Icw = 1 920 A; N = 4; IP = 2X; IK = 04							
Reference Product								
	Cat.No 405001							
	Vertical supply bar VX ³ 3R 125mm							

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:

Catalogue Numbers: List of catalog numbers, including the catalog numbers of the 405001



128 av. du Maréchal-de-Lattre-de-Tassigny 87045 Limoges Cedex France Tel. +33 (0) 5 55 06 87 87

Fax. + 33 (0) 5 55 06 88 88

Your usual Sales office www.legrand.com

Product Environmental Profile

Vertical supply bar VX³





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	210 g (wit	210 g (with unit packaging)								
Plastics as % of weight	·	Metals as % of weight		Other as % of weight						
PVC	11.0%	Copper alloys	46.5%							
PC	5.2%	Steel	16.0%							
PP	2.4%									
ABS	0.5%									
PE	0.5%									
				Packaging as % of weight						
				Wood	13.7%					
				Paper	4.3%					
Total plastics	19.6%	Total metals	62.5%	Total other and packaging	17.9%					

Estimated recycled material content: 14% by mass.



■ MANUFACTURE ■

This Reference Product comes from sites that have received ISO 14001 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 market in Europe.

Packaging is compliant with european directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 96 % (in % of the mass of the packaging).



INSTALLATION

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



USE

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



128 av. du Maréchal-de-Lattre-de-Tassigny 87045 Limoges Cedex France Tel. +33 (0) 5 55 06 87 87 Fax. +33 (0) 5 55 06 88 88



Your usual Sales office www.legrand.com

Product Environmental Profile

Vertical supply bar VX³





■ 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 98%. This value is based on data collected from a technological channel using industrial procedures. It does not prevalidate the effective use of this channel for end-of-life electrical and eletronic products.

Separated into:

- plastic materials (excluding packaging)
- metal materials (excluding packaging)
- other materials (excluding packaging)
- packaging (all types of materials)
: 19%



■ 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. 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: for a 20 years working life, in active mode of operation, with a power of 0.378 W and 100% associated time of one year of operation. Energy model: Electricity Mix; Europe, year 2008
End of life	The default end of life scenario maximizing the environmental impacts.
Software and database used	EIME V5 and its database «CODDE-2018-11»



128 av. du Maréchal-de-Lattre-de-Tassigny 87045 Limoges Cedex France Tel. +33 (0) 5 55 06 87 87 Fax. +33 (0) 5 55 06 88 88

Product Environmental Profile

Vertical supply bar VX³





Your usual Sales office www.legrand.com



SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Global warming	3.32E+01	kg~CO ₂ eq.	7.38E-01	2%	8.14E-03	< 1%	1.99E-03	< 1%	3.24E+01	98%	1.33E-02	< 1%
Ozone depletion	2.27E-06	kg~CFC-11 eq.	1.52E-07	7%	1.65E-11	< 1%	6.76E-12	< 1%	2.11E-06	93%	1.80E-10	< 1%
Acidification of soils and water	1.37E-01	kgSO2 eq.	1.36E-03	< 1%	3.66E-05	< 1%	9.18E-06	< 1%	1.35E-01	99%	5.44E-05	< 1%
Water eutrophication	9.30E-03	kg~PO ₄ ³-eq.	1.04E-03	11%	8.41E-06	< 1%	4.48E-06	< 1%	8.17E-03	88%	8.10E-05	< 1%
Photochemical ozone formation	7.60E-03	kg~C ₂ H ₄ eq.	1.59E-04	2%	2.60E-06	< 1%	6.51E-07	< 1%	7.44E-03	98%	4.14E-06	< 1%
Depletion of abiotic resources - elements	3.08E-04	kgSb eq.	3.05E-04	99%	3.26E-10	< 1%	8.16E-11	< 1%	2.82E-06	< 1%	6.71E-10	< 1%
Total use of primary energy	6.65E+02	MJ	1.63E+01	2%	1.15E-01	< 1%	2.79E-02	< 1%	6.48E+02	98%	1.59E-01	< 1%
Net use of fresh water	1.18E+02	m³	5.33E-02	< 1%	7.29E-07	< 1%	3.05E-07	< 1%	1.18E+02	100%	6.49E-06	< 1%
Depletion of abiotic resources - fossil fuels	3.75E+02	MJ	6.43E+00	2%	1.14E-01	< 1%	2.76E-02	< 1%	3.68E+02	98%	1.51E-01	< 1%
Water pollution	1.44E+03	m³	9.69E+01	7%	1.34E+00	< 1%	3.22E-01	< 1%	1.34E+03	93%	1.76E+00	< 1%
Air pollution	1.98E+03	m³	5.87E+02	30%	3.34E-01	< 1%	1.30E-01	< 1%	1.40E+03	70%	1.06E+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.

 $For products covered \ by \ the \ PEP \ other \ than \ the \ Reference \ product, the \ environmental \ impacts \ of \ each \ phase \ of \ the \ lifecycle \ are \ calculated \ with$

To determine the environmental impact of a product covered by the PEP other than the cat.number, the following rules apply:

-the environmental impacts of the manufacturing, distribution and end of life phases are proportional to the mass

-the environmental impacts of the use phase is proportional to the power.

Registration N°: LGRP-00742-V02.01-EN

Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed2-FR-2016 03 29»

Verifier accreditation N°: VH33

Information and reference documents: www.pep-ecopassport.org

Date of issue: 07-2019

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»

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