

Product Environmental Profile

MAP® Rackmount Power and Lighting Cable Support - Vertical Cable Management Panels



COMPANY OVERVIEW

• Sustainability built in to support our associates, customers, and the environment

At Legrand North America, we're committed to leading by example within our own operations, to developing high quality solutions for our customers' High Performance Buildings, and to transforming how people live and work – more safely, more comfortably, more efficiently.

• Better Performance

A core principle of designing for sustainability drives us to innovate products and systems that enable buildings to reach exceptional levels of performance, bringing about industry-leading ideas, inventions and initiatives.

• Better Operations

A commitment to a leadership role in operational excellence through environmental management, optimizing the way we manage energy, water and waste.

• Better Lives

A dedication to enhancing employee and community welfare through programs that help people enjoy healthier, more productive and more rewarding lives.

For more information on Legrand's PEPs and other sustainability initiatives, visit legrand.us/sustainability.



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 Legrand 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.

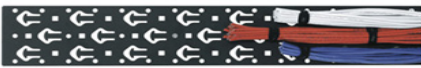
• Involve the environment in product design

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	Assists with the organization of cable bundles by providing secure systems throughout racks with a width or up to 3 1/4". Supports cable guiding for a reference lifetime of up to 20 years.
Reference Product	
	LACE-5254-OWP
	Lace Strip, 54 RU, 4.75"W, w/Tie Posts, 6 pc.

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PRODUCTS CONCERNED

The environmental data is representative of the following product series:

Description

- OWP
- OP
- LP
- P
- 1P
- WB6
- DRK



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/EC. The products covered by this PEP are all GREENGUARD compliant.

Total weight of Reference Product (with unit packaging)	28666 g		
Plastics as % of weight	Metals as % of weight		Other as % of weight
	Steel	94.5%	
			Packaging as % of weight
			Paper 5.5%
			PE <0.1%
Total plastics	0%	Total metals	94.5%
		Total other and packaging	5.5%

Estimated recycled material content: 37% of weight.



MANUFACTURING

The Reference Product comes from a site that has received ISO 14001 certification and Greencircle certification for diversion of 97% of waste away from landfills.



DISTRIBUTION

Products are distributed from logistics centers located to optimize transport efficiency. Information on the distance of distribution is not available so the PCR hypothesis for "Intracontinental transport", 2175 miles (3500 km) by heavy truck, was used. This represents transportation of the Reference Product from our warehouse to the local point of distribution in the North American market.

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INSTALLATION

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



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 this type of product.



END OF LIFE

• **Hazardous waste* contained in the product:** no hazardous waste is contained in this product
 (*) Hazardous waste as defined by European Commission decision 2000/532/EC.

• **Recycling rate:**

Calculated using the method described in the IEC/TR 62635 technical report, the recyclability rate of the Reference Product without packaging is estimated as 100%. 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:	{% mass of Reference Product without packaging)
- metal materials (excluding packaging):	94.5%
Recycling rate of packaging (all types of materials):	5.5%



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 of products marketed and used in North America.

The following modelling elements were taken into account:

Manufacturing	Packaging taken into account. As required by the PEP ecopassport program, all transport for the manufacturing of the Reference Product, including materials and components, has been taken into account. The waste generated during manufacturing phase has been taken into account.
Distribution	Information on the distance of distribution is not available so the PCR hypothesis for "Intracontinental Transport", 2175 miles (3500 km) by heavy truck, was used. The km for transport were calculated between each material's last distribution center and an average delivery to the sales area.
Installation	The end of life of the packaging is taken into account at this phase. Transport of packaging to end of life treatment.
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: No PSR exists for this Functional Unit. For all that reference lifetime is identical to that defined in the current PSR 0003: 20 years. • Use scenario: No energy consumption during the 20 year working life. • Energy model: Electricity(US) - 2009
End of life	The default end of life scenario modelled, as defined by the PCR, maximizes the environmental impact.

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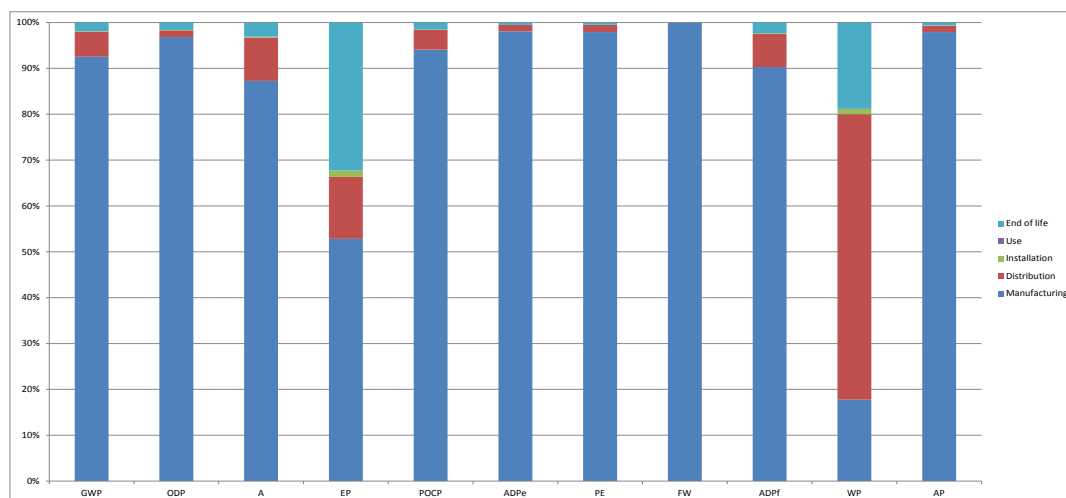
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ENVIRONMENTAL IMPACTS (continued)

	Total for Life cycle		Raw material and manufacturing		Distribution		Installation		Use		End of life	
	Value	Unit	Value	%	Value	%	Value	%	Value	%	Value	%
Global warming (GW)	9.17E+01	kgCO2 eq.	8.49E+01	93%	4.99E+00	5%	9.98E-02	< 1%	0.00E+00	0%	1.74E+00	2%
Ozone depletion (OD)	6.91E-07	kgCFC-11 eq.	6.69E-07	97%	1.01E-08	1%	7.21E-10	< 1%	0.00E+00	0%	1.11E-08	2%
Acidification of soil and water (A)	2.38E-01	kgSO2 eq.	2.08E-01	87%	2.24E-02	9%	4.87E-04	< 1%	0.00E+00	0%	7.37E-03	3%
Water eutrophication (WE)	3.82E-02	kg(P04)3- eq.	2.02E-02	53%	5.16E-03	14%	5.25E-04	1%	0.00E+00	0%	1.23E-02	32%
Photochemical ozone creation (POCP)	3.69E-02	kgC2H4 eq.	3.47E-02	94%	1.59E-03	4%	3.44E-05	< 1%	0.00E+00	0%	5.52E-04	1%
Depletion of abiotic resources - elements (ADPe)	1.44E-05	kgSb eq.	1.41E-05	98%	2.00E-07	1%	4.38E-09	< 1%	0.00E+00	0%	7.30E-08	< 1%
Total use of primary energy (PE)	4.25E+03	MJ	4.16E+03	98%	6.69E+01	2%	1.31E+00	< 1%	0.00E+00	0%	2.08E+01	< 1%
Net use of fresh water (FW)	8.00E-01	m ³	7.99E-01	100%	4.47E-04	< 1%	3.24E-05	< 1%	0.00E+00	0%	4.44E-04	< 1%
Depletion of abiotic resources – fossil fuels (ADPf)	9.71E+02	MJ	8.77E+02	90%	7.02E+01	7%	1.39E+00	< 1%	0.00E+00	0%	2.29E+01	2%
Water pollution (WP)	1.32E+03	m ³	2.34E+02	18%	8.21E+02	62%	1.53E+01	1%	0.00E+00	0%	2.48E+02	19%
Air pollution (AP)	1.51E+04	m ³	1.48E+04	98%	2.05E+02	1%	1.26E+01	< 1%	0.00E+00	0%	9.83E+01	< 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 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 Reference Product occurs predominantly during the manufacturing phase.

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ENVIRONMENTAL IMPACTS (continued)

For products other than the Reference Product, the environmental impacts can be determined for each life cycle phase by multiplying the Reference Product impacts by the factors listed below. Values are generally consistent within a life cycle phase for each product.

- FACTOR Ratio to calculate factor
- A Mass of product without packaging / Mass of reference product without packaging
 - B Total Mass of product with packaging / Total mass of reference product with packaging
 - C Mass of product packaging / Mass of reference product packaging
 - 1 Use phase is the same for all products

Part Number	Manufacturing	Distribution	Installation	Use	End of Life
Series: OWP, OP, LP, P, 1P, WB6, DRK	A	B	C	1	A

Registration number: LGRP-00500-V01.01-EN	Drafting rules: "PCR-ed3-EN-2015 04 02" Supplemented by:
Verifier's accreditation number: VH02	Information and reference documents: www.pep-ecopassport.org
Date of issue: 12-2017	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025:2010 Internal <input checked="" type="checkbox"/> External <input type="checkbox"/>	
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 elements from another program.	
Document in compliance with ISO 14025:2010: "Environmental labels and declarations - Type III environmental declarations"	
In compliance with ISO 14040:2006: "Environmental management - LCA - Principles and framework" In compliance with ISO 14044:2006: "Environmental management - LCA - Requirements and guidelines" In alignment with EN 15804:2012+A1:2013: "Sustainability of construction works - EPD's - Core rules for the product category of construction products"	