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Product Environmental Profile

Plus - 4x4 Blanking cover plate
Matte white





■ 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	Cover for protecting persons during 20 years against direct contact with live parts of the wires inside the wallbox.
Reference Product	
	Cat. No 618510
	Pial Plus - 4x4 Blanking cover plate - Matte white

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 (Matte White)	Catalogue Numbers (Glossy white)	
• 618510 (4x4)	• 618520 (4x2)	
• 618500 (4x2)	• 618530 (4x4)	





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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 amended by delegated directive (EU) 2015/863, and its amendment 2017/2102/EU.

Total weight of	
Reference Product	48 g (all packaging included)
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Plastics as % of weight		Metals as % of weight		Other as % of weight		
PS	57.7 %					
		Packaging as % of we	ight			
PE (Packaging)	5.2 %			Wood	23.8 %	
				Paper	13.3 %	
Total plastics	62.9 %	Total metals	0 %	Total others	37.1%	

Estimated recycled material content: 10 % by mass.



MANUFACTURE

This Reference Product comes from a site that 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 775 km, by road from our warehouse to the local point of distribution into the market in Brazil.

Packaging is compliant with applicable regulation. At their end of life, its recyclability rate is 85% (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 ■

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 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.

Separated into:

- plastic materials (excluding packaging)- packaging (all types of materials): 36 %



■ 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 Brazil. 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: based on the PSR_0005 § 3.9 Unequipped enclosures and cabinets Use scenario: no energy consumption during the 20 years working life. This modelling duration does not constitute a minimum durabilty requirement. Energy model: Electricity Mix; Brazil - 2009
End of life	The default end of life scenario maximizing the impacts.
Software and database used EIME & database CODDE-2018-11	



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■ SELECTION OF ENVIRONMENTAL IMPACTS

	Total for I	_ife cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	•
Global warming	1.84E-01	kgCO ₂ eq.	1.77E-01	96%	1.87E-03	1%	1.28E-03	< 1%	0.00E+00	0%	3.35E-03	2%
Ozone depletion	2.95E-09	kgCFC-11 eq.	2.85E-09	97%	3.78E-12	< 1%	1.16E-11	< 1%	0.00E+00	0%	8.56E-11	3%
Acidification of soils and water	2.97E-04	kgSO ₂ eq.	2.70E-04	91%	8.39E-06	3%	5.69E-06	2%	0.00E+00	0%	1.28E-05	4%
Water eutrophication	8.94E-05	kg(PO ₄)³- eq.	6.89E-05	77%	1.93E-06	2%	4.01E-06	4%	0.00E+00	0%	1.45E-05	16%
Photochemical ozone formation	2.59E-05	kgC ₂ H ₄ eq.	2.39E-05	92%	5.96E-07	2%	4.11E-07	2%	0.00E+00	0%	9.96E-07	4%
Depletion of abiotic resources - elements	1.69E-08	kgSb eq.	1.66E-08	98%	7.47E-11	< 1%	5.98E-11	< 1%	0.00E+00	0%	2.16E-10	1%
Total use of primary energy	3.72E+00	МЛ	3.64E+00	98%	2.64E-02	< 1%	1.69E-02	< 1%	0.00E+00	0%	3.65E-02	< 1%
Net use of fresh water	1.32E-02	m³	1.32E-02	100%	1.67E-07	< 1%	4.43E-07	< 1%	0.00E+00	0%	2.95E-06	< 1%
Depletion of abiotic resources - fossil fuels	3.00E+00	МЛ	2.93E+00	97%	2.62E-02	< 1%	1.63E-02	< 1%	0.00E+00	0%	3.26E-02	1%
Water pollution	1.55E+01	m³	1.47E+01	94%	3.07E-01	2%	1.90E-01	1%	0.00E+00	0%	3.78E-01	2%
Air pollution	9.81E+00	m³	9.23E+00	94%	7.65E-02	< 1%	1.10E-01	1%	0.00E+00	0%	3.97E-01	4%

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 the 618500 product the environmental impacts of each phase of the lifecycle are obtained by adopting the following coefficient 0.7 on those of the Reference Product.

For the 618520 product the environmental impacts of each phase of the lifecycle are obtained by adopting the following coefficients on those of the Reference Product:

	Manufacturing	Distribution	Installation	Use	End of life
Global warming	0.8				
Ozon depletion	0.7				
Acidification of soil and water	0.8				
Water eutrophication	0.8				
Photochemical ozon creation	0.8				
Depletion of abiotic resources - elements	0.8	0.8	0.7	-	0.8
Total use of primary energy during the life cycle	0.8				
Net use of fresh water	0.8				
Depletion of abiotic resources - fossil fuels	0.8				
Water pollution	0.8				
Air pollution	0.7				



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For the 618530 product the environmental impacts of each phase of the lifecycle are obtained by adopting the following coefficients on those of the Reference Product:

	Manufacturing	Distribution	Installation	Use	End of life
Global warming	1.3				
Ozon depletion	1.1				
Acidification of soil and water	1.2				
Water eutrophication	1.3				
Photochemical ozon creation	1.2				
Depletion of abiotic resources - elements	1.3	1.1	1.0	-	1.3
Total use of primary energy during the life cycle	1.3				
Net use of fresh water	1.3				
Depletion of abiotic resources - fossil fuels	1.3				
Water pollution	1.3				
Air pollution	1.1				

Registration N°: LGRP-00094-V02.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed2-EN-2016 03 29»		
Verifier accreditation N°: VH23	Information and reference documents: www.pep-ecopass	port.org	
Date of issue: 07-2021	Validity period: 5 years		
Independent verification of the declaration and data, in co Internal ☑ External □	mpliance with ISO 14025 : 2010		
The PCR review was conducted by a panel of experts chair	red by Philippe Osset (SOLINNEN)	PEP	
PEP are compliant with XP C08-100-1 : 2016 The elements of the present PEP cannot be compared wit		PASS	
Document in compliance with ISO 14025 : 2010: «Environn Type III environmental declarations»	nental labels and declarations.	PORT®	
Environmental data in alignment with EN 15804: 2012 + A	1 : 2013		