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Product Environmental Profile

Niloé™ 2P+E German standard socket outlet





■ 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	Connect/Disconnect during 20 years the plug of a load consuming 16A under a voltage of 250V~ while protecting the user from direct contact with live parts.					
Reference Product						
	Cat No. 764529 Mechanism	Cat. No 665001 Plate				
	2P+E German standard socket outlet - with shutters - scre	ew terminals - 16A 250V~				

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 Number	rs					
2P+E german standard screw terminal	2P+E french standard screw terminal	1 gang plate	2 gang plate	3 gang plate	4 gang plate	5 gang plate
• 764529	• 764527	• 665001	• 665002	• 665003	• 665004	• 665005
764629	• 764627	• 665011	• 665012	• 665013	• 665014	• 665015
		• 665031	• 665032	• 665033	• 665034	• 665035
		• 665021	• 665022	• 665023	• 665024	• 665025
		• 397081	• 397082	• 397083		
		• 397031	• 397032	• 397033		
		• 397051	• 397052	• 397053		
		• 397041	• 397042	• 397043		
		• 397071	• 397072	• 397073		
		• 397091	• 397092	• 397093		
		• 397095	• 397096	• 397097		





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■ CONSTITUENT MATERIALS I

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	107 g (all packaging included)

Plastics as % of weight		Metals as % of weight		Other as % of weight		
PC	27,9 %	Steel	9,4 %			
ABS	11,0 %	Copper alloys	7,6 %			
PA	0,3 %					
PS	<0,1 %					
Other plastic	<0,1 %					
	'	Packaging as % of weight				
PP	4,8 %			Wood	23,3 %	
PE	0,1 %			Paper	15,4 %	
Total plastics	44,3 %	Total metals	17,0 %	Total others	38,7 %	

Estimated recycled material concent: 18 % 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 1405 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 86 % (in % of packaging weight).



INSTALLATION I

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.





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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.

Separated into:

 $\begin{array}{lll} - \ plastic \ materials \ (excluding \ packaging) & : 37 \ \% \\ - \ metal \ materials \ (excluding \ packaging) & : 17 \ \% \\ - \ packaging \ (all \ types \ of \ materials) & : 37 \ \% \end{array}$



■ 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 of products marketed and used in Europe.

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: PSR-0005-ed2-EN-2016 03 29 - § 3.8.1.1 - Power socket and electronic connection socket Use scenario: non-continuous operation for 20 years at 50% of rated load, during 50% of the time. This modelling duration does not constitute a minimum durability requirement. Energy model: Electricity Mix; Europe 27 - 2008. 				
End of life	The default end of life scenario maximizing the environmental impacts.				
Software and database used	EIME & database CODDE-2018-11				



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■ SELECTION OF ENVIRONMENTAL IMPACTS ■

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Global warming	4.48E+00	kgCO ₂ eq.	4.13E-01	9 %	7.51E-03	< 1 %	2.91E-03	< 1 %	4.05E+00	90 %	6.25E-03	< 1 %
Ozone depletion	4.28E-07	kgCFC-11 eq.	1.64E-07	38 %	1.52E-11	< 1 %	2.59E-11	< 1 %	2.64E-07	62 %	1.37E-10	< 1 %
Acidification of soils and water	1.78E-02	kgSO ₂ eq.	8.48E-04	5 %	3.38E-05	< 1 %	1.31E-05	< 1 %	1.69E-02	95 %	2.43E-05	< 1 %
Water eutrophication	2.73E+03	kg(PO ₄)³- eq.	1.66E-03	61 %	7.76E-06	< 1 %	9.49E-06	< 1 %	1.02E-02	37 %	3.03E-05	1 %
Photochemical ozone formation	1.01E-03	kgC ₂ H ₄ eq.	7.98E-05	8 %	2.40E-06	< 1 %	9.43E-07	< 1 %	9.28E-04	92 %	1.88E-06	< 1 %
Depletion of abiotic resources - elements	2.54E-05	kgSb eq.	2.50E-05	99 %	3.01E-10	< 1 %	1.36E-10	< 1 %	3.52E-07	1 %	3.76E-10	< 1 %
Total use of primary energy	8.99E+01	МЛ	8.78E+00	10 %	1.06E-01	< 1 %	3.87E-02	< 1 %	8.09E+01	90 %	7.00E-02	< 1 %
Net use of fresh water	1.47E+01	m³	3.17E-02	< 1 %	6.73E-07	< 1 %	9.96E-07	< 1 %	1.47E+01	100 %	4.77E-06	< 1 %
Depletion of abiotic resources - fossil fuels	5.19E+01	МЛ	5.69E+00	11 %	1.06E-01	< 1 %	3.74E-02	< 1 %	4.60E+01	89 %	6.38E-02	< 1 %
Water pollution	2.91E+02	m³	1.21E+02	42 %	1.24E+00	< 1 %	4.36E-01	< 1 %	1.67E+02	57 %	7.41E-01	< 1 %
Air pollution	2.49E+02	m³	7.39E+01	30 %	3.08E-01	< 1 %	2.57E-01	< 1 %	1.74E+02	70 %	6.68E-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 are calculated for a configuration composed by socket-outlet, with cover and plate (Reference Product).

For color configurations different from that of the Reference Product, take the same value as the Reference Product for each environmental impact at each phase of the lifecycle.

For a configuration including a socket-outlet with shutters the environmental impacts of each phase of the lifecycle are obtained by adopting the following coefficients on those of the Reference Product.

Global warming	0,9	1,1				
Ozon depletion	1,0	1,0				
Acidification of soil and water	0,9	1,0				
Water eutrophication	1,0	1,0				
Photochemical ozon creation	0,9	1,1				
Depletion of abiotic resources - elements	1,4	1,4	1,0	1,0	0,9	1,0
Total use of primary energy during the life cycle	0,9	1,1				
Net use of fresh water	0,9	1,1				
Depletion of abiotic resources - fossil fuels	0,9	1,1				
Water pollution	1,0	1,0				
Air pollution	1,0	1,2				

Total LCA Manufacturing Distribution Installation Use End of life

Moreover, for the multi-gang configurations, the described environmental impacts of the socket-outlet with shutters have to be multiplied by the number of installed products.

Registration number: LGRP-01578-V01.01-EN	Drafting rules: PEP-PCR-ed3-2015 04 02 Supplemented by PSR-0005-ed2-2016 03 29				
Verifier accreditation N°: VH23	Information and reference documents: www.pep-ecopassport.org				
Date of issue: 10-2022	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)					
PEP are compliant with XP C08-100-1 : 2016 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					