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Product Environmental Profile

VALENA

Socket outlet - French std - 2P+E - 16A - 230V - white





LEGRAND'S ENVIRONMENTAL COMMITMENTS I

- 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 230V while protecting the user from direct contact with live parts.					
Reference Product						
	774396	774451				
	Mechanism	Plate				
	2P+E socket outlet french standard 16A 230V white	cket outlet french standard 16A 230V 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 is representative of the following products:

Mechanism (with cover)	Plate	
• 774396	• 774451	
• 774398	• 774351	
• 770196	• 770151	
• 774397		
• 774399		
• 770197		



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Total weight of

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41.3 %



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.

Reference Product	134 g (all _l	134 g (all packaging included)						
Plastics as % of weight		Metals as % of weight		Packaging as % of weight				
PC	18.4 %	Steel	27.4%	Wood (packaging)	18.7 %			
PBT	5.8 %	Copper Alloys	4.2%	Paper (packaging)	22 %			
		Other metal	1.9 %	PE (packaging)	0.1 %			
				PP (packaging)	0.5 %			
PS	0.1 %	Al	< 0.1%					

33.5 % Total other and packaging

Estimated recycled material content: 21 % by mass.



■ MANUFACTURE ■

Total plastics

The Reference Product comes from a sites that, in their majority, have received ISO 14001 certification.

25.2 % Total metals



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 96 % (in % of packaging weight).



■ 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.

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■ END OF LIFE

Under normal conditions of use, this product requires no servicing, no maintenance or additional products. 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 97%. 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:

plastic materials (excluding packaging)
 metal materials (excluding packaging)
 packaging (all types of materilas)
 40 %



■ 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 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: PSR0005-ed2-2016 03 29 - § 3.8 Sockets 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- 2002.
End of life	The default end of life scenario maximizing the environmental impacts.
Software and database used	EIME V5 and its database «CODDE-2015-04»

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■ SELECTION OF ENVIRONMENTAL IMPACTS ■

	Total for Li	fe cycle	Raw material a manufactu		Distributio	on	Installatio	า	Use		End of life	
Global warming	9.78E+00	kgCO2 eq.	5.48E-01	6%	9.38E-03	< 1%	3.17E-03	< 1%	9.21E+00	94%	6.94E-03	< 1%
Ozone depletion	2.27E-06	kgCFC-11 eq.	3.11E-08	1%	1.90E-11	< 1%	1.75E-11	< 1%	2.24E-06	99%	1.22E-10	< 1%
Acidification of soils and water	7.06E-02	kgSO2 eq.	9.01E-04	1%	4.21E-05	< 1%	1.49E-05	< 1%	6.96E-02	99%	2.76E-05	< 1%
Water eutrophication	2.87E-03	kg(PO4)3- eq.	2.04E-04	7%	9.69E-06	< 1%	1.14E-05	< 1%	2.61E-03	91%	3.80E-05	1%
Photochemical ozone formation	3.43E-03	kgC2H4 eq.	1.34E-04	4%	2.99E-06	< 1%	1.06E-06	< 1%	3.29E-03	96%	2.12E-06	< 1%
Depletion of abiotic resources - elements	3.85E-04	kgSb eq.	3.85E-04	100%	3.75E-10	< 1%	1.35E-10	< 1%	4.19E-07	< 1%	3.82E-10	< 1%
Total use of primary energy	1.73E+02	МЛ	1.35E+01	8%	1.26E-01	< 1%	4.18E-02	< 1%	1.59E+02	92%	7.74E-02	< 1%
Net use of fresh water	2.95E-02	m3	5.52E-03	19%	8.40E-07	< 1%	7.68E-07	< 1%	2.40E-02	81%	4.31E-06	< 1%
Depletion of abiotic resources - fossil fuels	1.02E+02	МЛ	7.09E+00	7%	1.32E-01	< 1%	4.43E-02	< 1%	9.49E+01	93%	9.57E-02	< 1%
Water pollution	5.64E+02	m3	1.75E+02	31%	1.54E+00	< 1%	4.98E-01	< 1%	3.86E+02	68%	8.69E-01	< 1%
Air pollution	4.98E+02	m3	1.02E+02	20%	3.85E-01	< 1%	2.93E-01	< 1%	3.95E+02	79%	6.44E-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.

For products covered by the PEP other than the Reference product, the environmental impacts of each phase of the lifecycle are assimilated to the impacts of the Reference Product.

For the configuration with shutters (774397, 774399, 770197 + associated plates) the Ozon Depletion indicator is calculated by multiply by 9 the ODP indicator of the Reference Product. The coefficient has to be applied only to the manufacturing phase.

Registration N°: LGRP-00599-V01-01-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04 0. Supplemented by PSR-0005-ed2-EN-2016				
Verifier accreditation N°: VH23	Information and reference documents: w	ww.pep-ecopassport.org			
Date of issue: 01-2018	Validity period: 5 years	Validity period: 5 years			
Independent verification of the declaration and data, in comp Internal	liance with ISO 14025:2010				
The PCR review was conducted by a panel of experts chaired by	PEP				
The elements of the present PEP cannot be compared with ele	PASS				
Document in compliance with ISO 14025 : 2010: «Environment declarations»	PORT®				
Environmental data in alignment with EN 15804 : 2012 + A1 : 2	2013				

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