

Product Environmental Profile

Niloé™ - 2P+T German standard socket outlet
With shutters - Screw terminals - 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	Connect/Disconnect during 20 years the plug of a load consuming 16A under a voltage of 240V while protecting the user from direct contact with live parts.	
Reference Product		
	Cat. No 7 645 29	Cat. No 6 650 01
	Mechanism	Plate 1 Gang
	2P+T German standard socket outlet - With terminals - 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	1 Gang plate	2 Gang plate	3 Gang plate	4 Gang plate	5 Gang plate
<ul style="list-style-type: none"> • 7 645 29 • 7 645 39 • 7 646 29 • 7 646 39 	<ul style="list-style-type: none"> • 6 650 01 - White • 6 650 11 - Ivory • 6 650 21 - Red • 6 650 31 - Taupe • 3 970 31 - Bronze • 3 970 41 - Aluminium • 3 970 51 - Onyx • 3 970 71 - Cacao • 3 970 81 - Plum • 3 970 91 - Dark wood • 3 970 95 - Light wood 	<ul style="list-style-type: none"> • 6 650 02 - White • 6 650 12 - Ivory • 6 650 22 - Red • 6 650 32 - Taupe • 3 970 32 - Bronze • 3 970 42 - Aluminium • 3 970 52 - Onyx • 3 970 72 - Cacao • 3 970 82 - Plum • 3 970 92 - Dark wood • 3 970 96 - Light wood 	<ul style="list-style-type: none"> • 6 650 03 - White • 6 650 13 - Ivory • 6 650 23 - Red • 6 650 33 - Taupe • 3 970 33 - Bronze • 3 970 43 - Aluminium • 3 970 53 - Onyx • 3 970 73 - Cacao • 3 970 83 - Plum • 3 970 93 - Dark wood • 3 970 97 - Light wood 	<ul style="list-style-type: none"> • 6 650 04 - White • 6 650 14 - Ivory • 6 650 24 - Red • 6 650 34 - Taupe 	<ul style="list-style-type: none"> • 6 650 05 - White • 6 650 15 - Ivory • 6 650 25 - Red • 6 650 35 - Taupe

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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.

Total weight of Reference Product	111 g (all packaging included)
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Plastics as % of weight		Metals as % of weight		Packaging as % of weight	
PC	28.0 %	Steel	7.5 %	Wood (packaging)	22.6 %
ABS	10.6 %	Copper Alloys	6.4 %	Paper (packaging)	18.4 %
PA	0.4 %	Other metal	3.4 %	PE (packaging)	2.6 %
Other plastic	0.1 %				
PS	< 0.1 %				
Total plastics	39.1 %	Total metals	17.3 %	Total other and packaging	43.6 %

Estimated recycled material content: 18 % by mass.



■ MANUFACTURE

This Reference Product comes from sites 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 91 % (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

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 94%. 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) : 37 %
- metal materials (excluding packaging) : 17 %
- packaging (all types of materials) : 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, 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	<ul style="list-style-type: none"> • Product category: passive product. • 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 Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Global warming	1.78E+01	kgCO₂ eq.	5.55E-01	3%	7.74E-03	< 1%	2.85E-03	< 1%	1.72E+01	97%	6.42E-03	< 1%
Ozone depletion	4.39E-06	kgCFC-11 eq.	2.11E-07	5%	1.57E-11	< 1%	2.00E-11	< 1%	4.18E-06	95%	1.40E-10	< 1%
Acidification of soils and water	1.31E-01	kgSO₂ eq.	6.71E-04	< 1%	3.48E-05	< 1%	1.31E-05	< 1%	1.30E-01	99%	2.50E-05	< 1%
Water eutrophication	5.13E-03	kg(PO₄)³⁻ eq.	2.01E-04	4%	7.99E-06	< 1%	9.46E-06	< 1%	4.88E-03	95%	3.12E-05	< 1%
Photochemical ozone formation	6.25E-03	kgC₂H₄ eq.	9.44E-05	2%	2.47E-06	< 1%	9.37E-07	< 1%	6.15E-03	98%	1.93E-06	< 1%
Depletion of abiotic resources - elements	2.16E-05	kgSb eq.	2.08E-05	96%	3.10E-10	< 1%	1.27E-10	< 1%	7.84E-07	4%	3.86E-10	< 1%
Total use of primary energy	3.05E+02	MJ	7.84E+00	3%	1.04E-01	< 1%	3.70E-02	< 1%	2.97E+02	97%	6.97E-02	< 1%
Net use of fresh water	4.97E-02	m³	4.78E-03	10%	6.93E-07	< 1%	8.11E-07	< 1%	4.49E-02	90%	4.88E-06	< 1%
Depletion of abiotic resources - fossil fuels	1.85E+02	MJ	7.52E+00	4%	1.09E-01	< 1%	4.00E-02	< 1%	1.77E+02	96%	9.03E-02	< 1%
Water pollution	9.34E+02	m³	2.10E+02	22%	1.27E+00	< 1%	4.39E-01	< 1%	7.22E+02	77%	7.62E-01	< 1%
Air pollution	8.46E+02	m³	1.07E+02	13%	3.17E-01	< 1%	2.52E-01	< 1%	7.38E+02	87%	6.85E-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 refer to a complete configuration composed by switch and plate.

For the configuration with a color plate, the environmental impacts of each phase of the lifecycle are assimilated to the impacts of the Reference Product.

For the multi-gang configurations, the full environmental impacts of the Reference Product have to be multiplied by the number of installed products.

Registration N°: LGRP-00399-V01-01-EN	Drafting rules: «PEP-PCR-ed3-EN-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: 05-2017	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)	
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	

