

Product Environmental Profile

**Mosaic™ - Socket Outlet - German Std - 2P+E
Screw Terminals - 2 Mod - Red Tamperproof**



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.

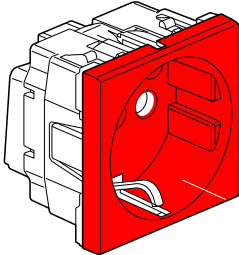
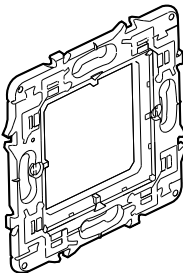
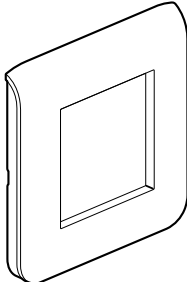
- Involve the environment in product design and provide informations in compliance with ISO 14025**

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	Allow the connection to a 250V low voltage circuit, according to standard IEC 60884-1, with a non-continuous operation (30% of time) during 20 years (household or similar purposes) at 30% of rated load, with rated load not exceeding 16A.		
Reference Product			
	Cat. No 0 772 14	Cat. No 0 802 51	Cat. No 0 788 02
	Mechanism	Frame 2 Modules	Plate 2 Modules - 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	Frame 2 Modules	Plate 2 Modules - White
• 0 772 14	• 0 802 51	• 0 788 02

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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.

Total weight of Reference Product	143 g (with unit packaging)
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Plastics as % of weight		Metals as % of weight		Packaging as % of weight	
PC	22.6 %	Steel	16.7 %	Wood (packaging)	26.2 %
PA	5.1 %	Copper alloys	3.8 %	Paper (packaging)	16.4 %
ABS	5,0 %	Other metal	2.1 %	PET (packaging)	1.5 %
Other plastic	0,1 %			PP (packaging)	0.3 %
				PE	0.2 %
PS	< 0,1 %	Al	< 0.1 %		
Total plastics	32.8 %	Total metals	22.6 %	Total other and packaging	44.6 %

Estimated recycled material content: 21 % 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 a maximum distance of 780 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 and french decree 98-638. At their end of life, its recyclability rate is 93 % (in % of the mass of the packaging).



■ 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 95 %. 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) : 31 %
- metal materials (excluding packaging) : 23 %
- packaging (all types of materials) : 41 %



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 the farthest 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 30% of rated load, during 30% 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	2.21E+00	kgCO₂ eq.	7.17E-01	32%	5.55E-03	< 1%	3.66E-03	< 1%	1.47E+00	67%	7.70E-03	< 1%
Ozone depletion	7.39E-07	kgCFC-11 eq.	3.81E-07	52%	1.12E-11	< 1%	2.24E-11	< 1%	3.58E-07	48%	1.57E-10	< 1%
Acidification of soils and water	1.22E-02	kgSO₂ eq.	9.84E-04	8%	2.49E-05	< 1%	1.68E-05	< 1%	1.11E-02	91%	3.02E-05	< 1%
Water eutrophication	7.49E-04	kg(PO₄)³⁻ eq.	2.76E-04	37%	5.73E-06	< 1%	1.11E-05	1%	4.17E-04	56%	3.91E-05	5%
Photochemical ozone formation	6.71E-04	kgC₂H₄ eq.	1.39E-04	21%	1.77E-06	< 1%	1.20E-06	< 1%	5.26E-04	78%	2.33E-06	< 1%
Depletion of abiotic resources - elements	2.29E-05	kgSb eq.	2.28E-05	100%	2.22E-10	< 1%	1.60E-10	< 1%	6.71E-08	< 1%	4.49E-10	< 1%
Total use of primary energy	4.00E+01	MJ	1.44E+01	36%	7.44E-02	< 1%	4.78E-02	< 1%	2.54E+01	63%	8.44E-02	< 1%
Net use of fresh water	9.46E-03	m³	5.61E-03	59%	4.97E-07	< 1%	9.22E-07	< 1%	3.84E-03	41%	5.48E-06	< 1%
Depletion of abiotic resources - fossil fuels	2.46E+01	MJ	9.23E+00	37%	7.80E-02	< 1%	5.14E-02	< 1%	1.52E+01	62%	1.08E-01	< 1%
Water pollution	2.89E+02	m³	2.25E+02	78%	9.13E-01	< 1%	5.71E-01	< 1%	6.18E+01	21%	9.31E-01	< 1%
Air pollution	1.71E+02	m³	1.06E+02	62%	2.28E-01	< 1%	3.01E-01	< 1%	6.32E+01	37%	7.84E-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.

Registration N°: LGRP-00305-V01-01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed1-2012 12 11»
Verifier accreditation N°: VH23	Information and reference documents : www.pep-ecopassport.org
Date of issue: 09-2016	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	

