L legrand

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Your usual Sales office www.legrand.com

Product Environmental Profile

Mosaic[™]

PEP eco PASS PORTe





LEGRAND'S ENVIRONMENTAL COMMITMENTS

• Incorporate environmental management into our industrial sites

Of all Legrand sites worldwide, over 80% are ISO 14001-certified (sites belonging to the Group for more than five years).

• Involve the environment in product design

Provide our customers with all relevant information (composition, consumption, end of life, etc.). Reduce the environmental impact of products over their whole life cycle.

• Offer our customers environmentally friendly solutions

Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations



REFERENCE PRODUCT

Function	Allow the making (by pressure on its control button) and breaking (by its release) of a 250 V low voltage circuit at a current of max. 6 A, according to the standards NFC-15100 and IEC 60669-1, with a non-continuous operation (30% of time) over a period of 20 years (household or similar purposes) at 30% of rated load.					
Reference Product						
	Cat. No 0 770 40	Cat. No 0 802 51	Cat. No 0 788 02			
	Mechanism	Support frame	Plate			
The company reserves the righ cannot be held binding on the c		gns without notice. All illustrations, descriptions, d	imensions and weights in the document are for guidan	nce a nd		



PRODUCTS CONCERNED

The environmental data are representative of the following products:

Catalogue Numbers (mechanism)	Catalogue Numbers (support frame)	Catalogue Numbers (plate)
 0 770 40 (white - 2 modules) 0 787 15 (antimicrobial - 2 modules) 0 770 30 (white - 1 module) 	• 0 802 51 (2 modules) • 0 802 50 (1 module)	 0 788 02 (white - 2 modules) 0 787 22 (antimicrobial - 2 modules) 0 788 01 (white - 1 module)

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Push-button - 6 A - 2 Modules - White

CONSTITUENT MATERIALS

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market.

It does not contain substances covered by the RoHS Directive (2002/95/EC and its revision 2011/65/EC). It contains none of the 138 candidate substances covered by appendix XIV of the REACH regulation dated 19/12/2012.

Total weight of Reference Product	74 g (with uni	t packaging)			
Plastics as % of weight		Metals as % of weight		Packaging as % of weig	Jht
PC	29.2 %	Steel	26.2 %	Paper	11.4 %
ABS	16.7 %	Copper alloys	4.3 %	PP	0.7 %
PA	8.6 %	Silver alloys			
PET	2.9 %				
		Silver alloys	< 1 %		
Total plastics	57.4%	Total metals	30.5 %	Total packaging	12.1 %

Estimated recycled material content: 22 % of weight.



MANUFACTURE

This Reference Product comes from sites that observe the applicable legislation for industrial sites.

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 780 km, by road from our warehouse to the local point of distribution into the market in Europe.

Packaging is compliant with applicable regulation. At their end of life the recyclability rate is 94 % (in % of packaging weight).



INSTALLATION

Installation components not delivered with the product are not taken into account.



Servicing and maintenance:

Under normal conditions of use, this type of product requires no servicing or maintenance.

Consumable:

No consumables are necessary to use this type of product.

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END OF LIFE

Development teams integrate product end-of-life factors in 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 operating on an industrial basis. It does not prejudge the effective use of the channel for electrical and electronic products at the end of their life. Separated into:

- plastic materials (excluding packaging) : 55 %
- metal materials (excluding packaging) : 31 %
- packaging (all types of materials) : 11 %



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. The following modelling elements were taken into account:

Manufacture	Unit packaging taken into account. As required by the «PEP ecopassport» programme all transport for the manufacturing of the Reference Product, including materials and components, has been taken in account.						
Distribution	Transport between the last Group distribution centre and an average delivery to the sales area.						
Installation	Installation components not delivered with the product are not taken into account.						
Use	 Under normal conditions of use, this type of product requires no servicing or maintenance. No consumables are necessary to use this type of product Product category: passive product Use scenario: no continuous operation for 20 years at 30 % of rated load, closed circuit during 30 % of the time. This modelling duration does not constitute a minimum durability requirement. Electricity (Europe) - 2005. 						
End of life	In view of the data avalaible on the date of creation of the document, and in accordance with the requirements of the PCR of the «PEP ecopassport» programme, transport of the Reference Product by road only once, over a distance of 1000 km, to a processing site at end of life was counted.						
Software used	EIME V5 and its database «Legrand-2012-10-31 version 3» made from the data base «CODDE-2012-07».						

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ENVIRONMENTAL IMP	PACTS (continued)
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		Total fo	or Life cycle	Raw material and manufacture		Distribution		Installation		Use		End of life	
	Global warming	1.37E+03	g~CO ₂ eq.	4.60E+02	33%	4.36E+00	< 1%	0.00E+00	0%	9.05E+02	66%	3.67E+00	< 1%
	Ozone depletion	8.24E-05	g~CFC-11 eq.	3.01E-05	37%	3.09E-06	4%	0.00E+00	0%	4.92E-05	60%	6.96E-09	< 1%
indicators	Water eutrophication	8.67E-02	g∼P0₄³-eq.	8.45E-02	97 %	7.27E-05	< 1%	0.00E+00	0%	2.13E-03	2%	6.82E-06	< 1%
	Photochemical ozone creation	4.96E-01	g~C ₂ H ₄ eq.	1.74E-01	35%	3.79E-03	< 1%	0.00E+00	0%	3.17E-01	64%	8.19E-04	< 1%
Mandatory	Air acidification	1.91E-01	g~H+ eq.	6.81E-02	36%	5.77E-04	< 1%	0.00E+00	0%	1.21E-01	64%	6.82E-04	< 1%
	Total energy depletion	2.58E+01	MJ	7.71E+00	30%	5.53E-02	< 1%	0.00E+00	0%	1.79E+01	70%	5.18E-02	< 1%
	Water depletion	6.04E+00	dm³	3.45E+00	57%	5.24E-03	< 1%	0.00E+00	0%	2.59E+00	43%	3.81E-04	< 1%

ors	Raw material depletion	1.69E-15 année ⁻¹	1.67E-15 99 9	% 7.53E	-20 < 1%	0.00E+00	0%	2.04E-17	1%	7.51E-20	< 1%
indicators	Air toxicity	2.63E+05 m ³	1.11E+05 42	% 8.54E	+02 < 1%	0.00E+00	0%	1.50E+05	57%	1.01E+03	< 1%
onal	Water toxicity	5.15E-01 m ³	2.53E-01 49	% 6.09E	-04 <1%	0.00E+00	0%	2.60E-01	51%	1.57E-03	< 1%
Opti	Hazardous waste production	2.25E-02 kg	7.51E-03 33	% 1.63E	-06 <1%	0.00E+00	0%	1.50E-02	67%	4.55E-09	< 1%

The environmental impacts refer to a complete configuration composed by socket, plate and support.

The environmental impacts of the Reference Product are representative of the products covered by the PEP, which therefore constitute a homgeneous environmental family.

For Cat No 0 770 30, the environmental impacts of the manufacture, distribution and end-of-life phases are obtaiend by multiplying thoses of the Reference Product by a coefficient of 0.7.

For Cat No 0 787 15, the raw material depletion indicator for the Manufacturing phase is obtained by multiplying that of the Reference Product by a coefficient of 1.4.

The impact of the installation phase is always nil.

The values of these impacts are valid for the context specified in this document. They must not be used directly to draw up the environmental balance sheet for the installation.

Registration number: LGRP-2014-144-V1-EN	Drafting rule → PCR: PEP-PCR-ed 2.1-FR-2012 12 11 → PSR: PSR-0005-ed1-FR-2012 12 11					
Authorisation number of checker: VH02	Programme information: www.pep-ecopassport.org					
Date of issue: 04-2015	Validity period: 4 years					
Independent verification of the declaration and data, in accordance w Internal 🛛 External 🗌						
In accordance with ISO 14025: 2006 Type III environmental declaration						
The critical review of the PCR was conducted by a panel of experts cl	haired by J. Chevalier (CSTB)					
The elements of the present PEP cannot be compared with elements from another programme						