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Product Environmental Profile

Mosaic™

2 Way Switch - 10 AX - 2 Modules - White





■ 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		operation (30% of time) during 20 yea	ding to the standards NFC-15100 and rs (household or similar purposes) at
Reference Product			
	Cat. No 0 770 11	Cat. No. 0 802 51	Cat. No 0 788 02
	Mechanism	Support	White plate

Toutes les indications mentionnées sur le présent document (caractéristiques et cotes) sont susceptibles de modifications, elles ne peuvent donc constituer un engagement de notre part.



■ PRODUCTS CONCERNED

The environmental data are representative of the following products:

Catalogue Numbers (mechanisms)	Catalogue Numbers (support)	Catalogue Numbers (plates)
• 0 770 11	• 0 802 51	• 0 787 22
• 0 770 01	• 0 802 50	• 0 788 01
• 0 787 11		



Total weight of

Total plastics



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11.9 %



■ 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 substances in the candidate list of the REACH regulation dated 19/12/2012.

Reference Product	75 g (with un	75 g (with unit packaging)								
Plastics as % of weight		Metals as % of weight		Packaging as % of weight						
PC	28.8 %	Steel	25.6 %	Paper	11.2 %					
ABS	16.4 %	Copper alloys	6.1 %	PP	0.7 %					
PA	8.4 %									
PET	2.8 %									

< 0.1 %

31.7 % Total others (packaging)

Silver alloys

56.4 % Total metals

Estimated recycled material content: 21 % of weight.



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 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/EC concerning packaging and packaging waste and French decree 98-638.

At the packaging end of life, its recycliability rate is of 94 % (in % of packaging weight).



■ INSTALLATION ■

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



USE CONTRACTOR

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.

- plastic materials (excluding packaging): 54 %
- metal materials (excluding packaging): 32 %
- 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.

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, 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 IMPACTS (continued) ■

		Total fo	or Life cycle	Raw material manufac	land	Distribu	ition	Installa	tion	Use		End of	life
	Global warming	2.99E+03	g~CO ₂ eq.	4.65E+02	16%	4.45E+00	< 1%	0.00E+00	0%	2.51E+03	84%	3.74E+00	< 1%
	Ozone depletion	1.72E-04	g~CFC-11 eq.	3.18E-05	19%	3.16E-06	2%	0.00E+00	0%	1.37E-04	80%	7.10E-09	< 1%
indicators	Water eutrophication	9.15E-02	g~PO₄³-eq.	8.55E-02	93%	7.42E-05	< 1%	0.00E+00	0%	5.91E-03	6%	6.96E-06	< 1%
	Photochemical ozone creation	1.06E+00	g~C ₂ H ₄ eq.	1.76E-01	17%	3.87E-03	< 1%	0.00E+00	0%	8.80E-01	83%	8.35E-04	< 1%
Mandatory	Air acidification	4.12E-01	g~H+ eq.	7.34E-02	18%	5.89E-04	< 1%	0.00E+00	0%	3.37E-01	82%	6.96E-04	< 1%
	Total energy depletion	5.77E+01	MJ	7.80E+00	14%	5.64E-02	< 1%	0.00E+00	0%	4.98E+01	86%	5.28E-02	< 1%
	Water depletion	1.09E+01	dm³	3.69E+00	34%	5.35E-03	< 1%	0.00E+00	0%	7.20E+00	66%	3.89E-04	< 1%

rs	Raw material depletion	3.15E-15	year ⁻¹	3.10E-15	98%	7.69E-20	< 1%	0.00E+00	0%	5.66E-17	2%	7.66E-20	< 1%
indicators	Air toxicity	5.46E+05	m³	1.27E+05	23%	8.71E+02	< 1%	0.00E+00	0%	4.17E+05	76%	1.03E+03	< 1%
onal	Water toxicity	9.84E-01	m³	2.60E-01	26%	6.21E-04	< 1%	0.00E+00	0%	7.22E-01	73%	1.60E-03	< 1%
Opti	Hazardous waste production	4.99E-02	kg	8.16E-03	16%	1.66E-06	< 1%	0.00E+00	0%	4.17E-02	84%	4.64E-09	< 1%

The environmental impacts of the Reference Product are representative of the products covered by the PEP.

For the switch configuration - 1 module (0 770 01 + 0 802 50 + 0 788 01) the environmental impacts are obtained by multiplying those of the Reference Product by a coefficient of 0.7 for the indicators of the Manufacturing with the only exception of the Raw Material Depletion indicator and a coefficient of 0.6 for all the indicators of the Distribution and End of Life phases.

For the antibacterial switch configuration - 2 modules (0 787 11 + 0 802 51 + 0 787 22) the environmental impacts are obtained by multiplying those of the Reference Product by a coefficient of 1.2 for the Raw Material Depletion indicator of the Manufacturing phase.

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-2014-179-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	Programme information: www.pep-ecopassport.org				
Date of issue: 04-2015						
Independent verification of the declaration and data, in ad Internal \square External \square	PEP					
In accordance with ISO 14025: 2006 Type III environmenta	eco					
The critical review of the PCR was conducted by a panel of	PASS					
The elements of the present PEP cannot be compared wit						