La legrand

128 av. du Maréchal-de-Lattre-de-Tassigny 87045 Limoges Cedex France Tel. +33 (0) 5 55 06 87 87 Fax. + 33 (0) 5 55 06 88 88

Your usual Sales office www.legrand.com

Product Environmental Profile

Valena[™] Life

Simple one-way Switch 10 AX - 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		air, of a 250 V low voltage circuit, car 69-1 and IEC60529, for household or s	rying a load current not exceeding 10 A, imilar purposes, during 20 years.
Reference Product			
	Cat. No 7 520 01	Cat. No 7 540 01	Cat. No 7 550 00
	Simple one way switch 10 AX - Whit	e	

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 are representative of the following products:

Catalogue Numbers (mechanisms with rocker)	Catalogue Numbers (mechanisms only)	Catalogue Numbers (plates)	Catalogue Numbers (rockers)
• 7 525 05	• 7 520 01	• 7 540 01	• 7 550 00,
• 7 525 01	• 7 520 05	• 7 540 41	• 7 550 20
• 7 527 01		• 7 543 91	• 7 550 01
• 7 524 05		• 7 540 07	• 7 550 02
		• 7 541 37	• 7 550 05
			• 7 550 21
			• 7 550 25
			• 7 550 22
			• 7 550 06
			• 7 550 07
			• 7 550 26
			• 7 550 27

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

Total weight of Reference Product								
Plastics as % of weight		Metals as % of weight		Packaging as % of weight				
PC	37.2 %	Copper alloys	3.2 %	Paper	11.3 %			
ABS	10.3 %							
PET	2.5 %							
PE	0.5 %							
PA	0.5 %							
Other plastic	< 0.1 %	Silver alloys	< 0.1 %					
Total plastics	51.0 %	Total metals	37.7 %	Total others (packaging)	11.3 %			

Estimated recycled material content: 24 % of weight.



MANUFACTURE

The Reference Product comes from sites that, in their majority, have received IS014001 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/EC concerning packaging and packaging waste. At the packaging end of life, its recyclability rate is of 100 % (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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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): 48 %
- metal materials (excluding packaging): 38 %
- 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:

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
Transport between the last Group distribution centre and an average delivery to the sales area.
Installation components not delivered with the product are not taken into account.
 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: 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. Electricity Europe - 2002.
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.
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 for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Global warming	1.87E+03	g~CO ₂ eq.	5.28E+02	28%	9.89E+00	< 1%	0.00E+00	0%	1.33E+03	71%	7.04E+00	< 1%
Ozone depletion	3.46E-04	g~CFC-11 eq.	3.11E-05	9 %	7.02E-06	2%	0.00E+00	0%	3.02E-04	88%	4.99E-06	1%
Water eutrophication Photochemical	7.38E-02	g~PO₄³-eq.	6.09E-02	83%	1.65E-04	< 1%	0.00E+00	0%	1.26E-02	1 7 %	1.17E-04	< 1%
Photochemical ozone creation	3.00E-01	g~C ₂ H ₄ eq.	2.03E-01	68%	8.60E-03	3%	0.00E+00	0%	8.20E-02	27 %	6.12E-03	2%
ozone creation Air acidification	3.61E-01	g~H+ eq.	7.18E-02	20%	1.31E-03	< 1%	0.00E+00	0%	2.87E-01	79 %	9.32E-04	< 19
Total energy depletion	3.58E+01	MJ	8.69E+00	24%	1.25E-01	< 1%	0.00E+00	0%	2.69E+01	75%	8.92E-02	< 1%
Water depletion	6.50E+00	dm³	3.02E+00	46%	1.19E-02	< 1%	0.00E+00	0%	3.46E+00	53%	8.47E-03	< 19

rs	Raw material depletion	1.48E-15	year-1	1.46E-15	99 %	1.71E-19	< 1%	0.00E+00	0%	1.79E-17	1%	1.22E-19	< 1%
ndicator	Air toxicity	4.53E+05	m³	1.17E+05	26%	1.94E+03	< 1%	0.00E+00	0%	3.32E+05	73%	1.38E+03	< 1%
tional i	Water toxicity	8.57E-01	m³	2.63E-01	31%	1.38E-03	< 1%	0.00E+00	0%	5.91E-01	69 %	9.83E-04	< 1%
Opti	Hazardous waste production	8.64E-03	kg	8.41E-03	97 %	3.69E-06	< 1%	0.00E+00	0%	2.28E-04	3%	2.63E-06	< 1%

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

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

For a double switch configuration: the environmental impacts of the manufacturing (with the only exception the raw material depletion indicator), distribution and end of life phases do not have significant variations from those of the Reference Product, the impacts of the installation phase are always nil and the environmental impacts of the use phase are obtained by multiplying those of the Reference Product by the coefficient 3.5. For the raw material depletion indicator referred only to the manufacturing life cycle phase, the coefficient to adopt is 1.9.

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-2015-346-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: VH23	Programme information: www.pep-ecopassport.org						
Date of issue: 12-2015	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 chaired by J. Chevalier (CSTB)							
The elements of the present PEP cannot be compared with elements from another programme							