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Product Environmental Profile

Salbei™

One way switch 10AX white

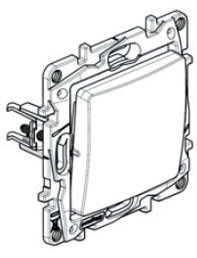
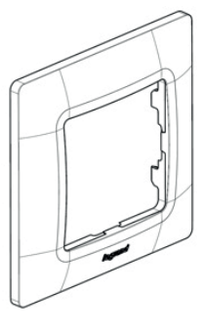
LEGRAND'S ENVIRONMENTAL COMMITMENTS

• 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	Establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by a 250 V low voltage with rated load not exceeding 10A.	
Reference Product		
	Cat. No 7 671 00	Cat. No 7 673 31
	One way switch 10AX	White Plate

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:

One way switch mechanism	Two way switch mechanism	1 Gang plate	2 Gang plate	3 Gang plate
• 7 671 00	• 7 671 01	• 7 673 31	• 7 673 32	• 7 673 33
• 7 672 00	• 7 672 01	• 7 673 41	• 7 673 42	• 7 673 43
• 7 673 00	• 7 673 01	• 7 673 51	• 7 673 52	• 7 673 53
• 7 674 00	• 7 674 01	• 7 673 61	• 7 673 62	• 7 673 63
• 7 675 00	• 7 675 01	• 7 673 71	• 7 673 72	• 7 673 73
• 7 676 00	• 7 676 01	• 7 675 41	• 7 675 42	• 7 675 43
• 7 677 00	• 7 677 01	• 7 675 51	• 7 675 52	• 7 675 53
• 7 678 00	• 7 678 01	• 7 675 61	• 7 675 62	• 7 675 63
• 7 679 00	• 7 679 01	• 7 675 71	• 7 675 72	• 7 675 73

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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	**102 g** (all packaging included)

Plastics as % of weight		**Metals as % of weight**		**Other as % of weight**	
PC	**21.1 %**	Steel	**6.4 %**		
ABS	**17.3 %**	Copper Alloys	**1.8 %**		
		Other metal	**1.2 %**		
		Al	**< 0.1 %**		
PS	**< 0.1 %**	Silver Alloy	**< 0.1 %**		
Packaging as % of weight					
PE (packaging)	**0.2 %**			Wood (packaging)	**24.7 %**
PP (packaging)	**4.4 %**			Paper (packaging)	**22.9 %**
Total plastics	**43 %**	**Total metals**	**9.4 %**	**Total others**	**47.6 %**

Estimated recycled material content: 16 % by mass.

MANUFACTURE

The Reference Product comes from sites that, in their majority, have 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 300 km by road from our warehouse to the local point of distribution into the market in Turkey.

Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 89 % (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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PEP ecopassport®

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 92 %. 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) : 9 %
- packaging (all types of materials) : 46 %

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 Turkey, 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	• Product category: PSR0005-ed2-2016 03 29 - § 3.5 Switches • Use scenario : non-continuous operation for 20 years at 50% of rated load, during 30% of the time. This modelling duration does not constitute a minimum durability requirement. • Energy model: Electricity Mix, Turkey 2005
End of life	The default end of life scenario maximizing the environmental impacts.
Software and database used	EIME & database CODDE-2018-11

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SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Global warming	**8.09E+00**	**kgCO2 eq.**	3.46E-01	**4%**	1.52E-03	**< 1%**	3.24E-03	**< 1%**	7.73E+00	**96%**	5.29E-03	**< 1%**
Ozone depletion	**2.81E-07**	**kgCFC-11 eq.**	1.79E-08	**6%**	3.07E-12	**< 1%**	2.65E-11	**< 1%**	2.63E-07	**94%**	1.23E-10	**< 1%**
Acidification of soils and water	**7.32E-03**	**kgSO2 eq.**	7.90E-04	**11%**	6.81E-06	**< 1%**	1.48E-05	**< 1%**	6.49E-03	**89%**	2.04E-05	**< 1%**
Water eutrophication	**2.94E-03**	**kg(PO4)3- eq.**	1.19E-03	**40%**	1.57E-06	**< 1%**	1.13E-05	**< 1%**	1.71E-03	**58%**	2.47E-05	**< 1%**
Photochemical ozone formation	**1.37E-03**	**kgC2H4 eq.**	6.84E-05	**5%**	4.84E-07	**< 1%**	1.06E-06	**< 1%**	1.30E-03	**95%**	1.59E-06	**< 1%**
Depletion of abiotic resources - elements	**9.11E-05**	**kgSb eq.**	9.10E-05	**100%**	6.07E-11	**< 1%**	1.48E-10	**< 1%**	7.16E-08	**< 1%**	3.27E-10	**< 1%**
Total use of primary energy	**9.71E+01**	**MJ**	6.77E+00	**7%**	2.14E-02	**< 1%**	4.35E-02	**< 1%**	9.02E+01	**93%**	5.87E-02	**< 1%**
Net use of fresh water	**4.68E-02**	**m3**	4.08E-02	**87%**	1.36E-07	**< 1%**	1.05E-06	**< 1%**	6.02E-03	**13%**	4.27E-06	**< 1%**
Depletion of abiotic resources - fossil fuels	**7.93E+01**	**MJ**	4.90E+00	**6%**	2.13E-02	**< 1%**	4.21E-02	**< 1%**	7.43E+01	**94%**	5.31E-02	**< 1%**
Water pollution	**3.83E+02**	**m3**	1.08E+02	**28%**	2.49E-01	**< 1%**	4.90E-01	**< 1%**	2.74E+02	**71%**	6.16E-01	**< 1%**
Air pollution	**5.91E+02**	**m3**	4.20E+01	**7%**	6.22E-02	**< 1%**	2.99E-01	**< 1%**	5.48E+02	**93%**	5.89E-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.

For the lighting position with the 2-way Switch, for Distribution, Installation, Use and End of Life phases take the same values of those of the Reference Product. For the environmental impacts of the Total Life cycle and of the Production phase take the same values of those of the Reference Product, except for the «Depletion of abiotic resources - elements». For this indicator the environmental impacts are obtained by multiplying those of the Reference Product by the coefficient 1.4.

Registration N°: LGRP-00894-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: 05-2019	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025:2010 Internal ☒ External ☐	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)	
PEP are compliant with XP C08-100-1 : 2014 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	