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Product Environmental Profile

Excel Life
1 gang 16AX Switch 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 240 V low voltage with rated load not exceeding 16AX.
Reference Product	Cat.No EC770/1WE 1 gang 16AX Switch 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:

Catalogue No	umbers
• 1 gang	
EC770/1WE	ED770/1WE
• 2 gang	
EC770/2WE	ED770/2WE
• 3 gang	
EC770/3WE	ED770/3WE
• 4 gang	
EC770/4WE	ED770/4WE
• 5 gang	
EC770/5WE	ED770/5WE
• 6 gang	
EC770/6WE	ED770/6WE





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■ CONSTITUENT MATERIALS I

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 amended by delegated directive (EU) 2015/863, and its amendment 2017/2102/EU.

Total weight of	
Reference Product	95 g (all packaging included)

Plastics as % of weight		Metals as % of weight		Other as % of weight		
PC	52.7 %	Steel	7.1 %			
PA	3.1 %	Copper alloys	6.8 %			
PBT	0.7 %	Other metal	< 0.1 %			
PP	0.5 %					
PS	0.1 %					
	<u>'</u>	Packaging as % of weight			·	
PE	1.8 %			Paper	27.2 %	
Total plastics	58.9 %	Total metals	13.9 %	Total others	27.2 %	

Estimated recycled material content: 26 % by mass.



MANUFACTURE 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 894 Km by road from our warehouse to the local point of distribution into the market in Australia.

Packaging is compliant with applicable regulation. At their end of life, its recyclability rate is 94 % (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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■ END OF LIFE I

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 operating on an industrial basis. It does not pre-validate the effective use of this channel for the end of life of this product.

Separated into:

plastic materials (excluding packaging)
metal materials (excluding packaging)
14 %
packaging (all types of materials)
27 %



■ 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 Australia.

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: PSR-0005-ed2-EN-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; Australia - 2009.
End of life	The default end of life scenario maximizing the impacts.
Software and database used	EIME & database CODDE-2018-11



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■ SELECTION OF ENVIRONMENTAL IMPACTS ■

	Total for I	ife cycle	Raw material manufact		Distributi	on	Installatio	on	Use		End of life	9
Global warming	7.29E+00	kgCO ₂ eq.	5.02E-01	7 %	4.24E-03	< 1 %	1.81E-03	< 1 %	6.77E+00	93 %	7.39E-03	< 1 %
Ozone depletion	1.08E-07	kgCFC-11 eq.	2.67E-08	25 %	8.59E-12	< 1 %	1.61E-11	< 1 %	8.14E-08	75 %	1.72E-10	< 1 %
Acidification of soils and water	8.01E-03	kgSO ₂ eq.	1.01E-03	13 %	1.91E-05	< 1 %	8.64E-06	< 1 %	6.95E-03	87 %	2.85E-05	< 1 %
Water eutrophication	4.57E-03	kg(PO ₄)³- eq.	2.69E-03	59 %	4.38E-06	< 1 %	9.36E-06	< 1 %	1.84E-03	40 %	3.44E-05	< 1 %
Photochemical ozone formation	1.04E-03	kgC₂H₄ eq.	9.47E-05	9 %	1.35E-06	< 1 %	6.15E-07	< 1 %	9.44E-04	91 %	2.21E-06	< 1 %
Depletion of abiotic resources - elements	1.24E-04	kgSb eq.	1.24E-04	100 %	1.70E-10	< 1 %	8.27E-11	< 1 %	2.67E-08	< 1 %	4.56E-10	< 1 %
Total use of primary energy	1.08E+02	МЈ	8.59E+00	8 %	6.00E-02	< 1 %	2.43E-02	< 1 %	9.95E+01	92 %	8.19E-02	< 1 %
Net use of fresh water	3.38E-02	m³	2.69E-02	80 %	3.80E-07	< 1 %	6.79E-07	< 1 %	6.90E-03	20 %	5.97E-06	< 1 %
Depletion of abiotic resources - fossil fuels	1.00E+02	МЛ	6.37E+00	6 %	5.96E-02	< 1 %	2.34E-02	< 1 %	9.39E+01	93 %	7.40E-02	< 1 %
Water pollution	4.80E+02	m³	1.67E+02	35 %	6.97E-01	< 1 %	2.71E-01	< 1 %	3.11E+02	65 %	8.60E-01	< 1 %
Air pollution	7.21E+02	m³	6.83E+01	9 %	1.74E-01	< 1 %	2.27E-01	< 1 %	6.51E+02	90 %	8.23E-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 products covered by the PEP other than the Reference Product, the environmental impacts of each phase of the lifecycle are obtained by adopting the following coefficients:

SUM				Manufacturing				Distribution						
2 gang	3 gang	4 gang	5 gang	6 gang	2 gang	3 gang	4 gang	5 gang	6 gang	2 gang	3 gang	4 gang	5 gang	6 gang
2.3	3.3	4.3	5.7	7.1	2	2.6	3.4	4.2	5	1.1	1.3	1.4	1.5	1.6

	Installation					Use				End of life					
Γ	2 gang	3 gang	4 gang	5 gang	6 gang	2 gang	3 gang	4 gang	5 gang	6 gang	2 gang	3 gang	4 gang	5 gang	6 gang
	1	1	1	1	1	2.4	3.5	4.5	6	7.5	1.1	1.3	1.4	1.6	1.7

Registration number: LGRP-01370-V01.01-EN	·2015 04 02» 2016 03 29»					
Verifier accreditation N°: VH23	Information and reference documents: www.pep-ecopassport.org					
Date of issue: 06-2021	Validity period: 5 years					
Independent verification of the declaration and data, in comp Internal 🔲 External 🔲	oliance with ISO 14025 : 2010					
The PCR review was conducted by a panel of experts chaired	by Philippe Osset (SOLINNEN)	PEP				
PEP are compliant with XP C08-100-1 : 2016 The elements of the present PEP cannot be compared with ϵ	PASS					
Document in compliance with ISO 14025 : 2010: «Environmer	PORT					

Environmental data in alignment with EN 15804: 2012 + A1 : 2013