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Product Environmental Profile

Raventi™

2P+E Schuko screw terminal socket without shutter white 16A 250V~

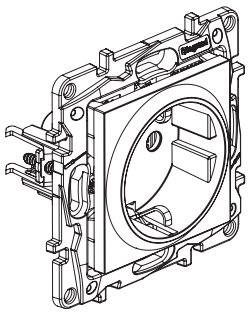
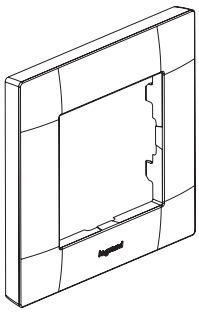
LEGRAND'S ENVIRONMENTAL COMMITMENTS

• 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	Connect/Disconnect during 20 years the plug of a load consuming 16A under a voltage of 250V while protecting the user from direct contact with live parts.	
Reference Product		
	Cat.No 7 681 14 Mechanism	Cat. No 7 681 71 Plate
	2P+E Schuko screw terminal socket without shutter 16A 250V~ - 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 Numbers			
2P+E Schuko screw terminal socket without shutter • 7 681 14 • 7 682 14 • 7 683 14 • 7 684 14 • 7 685 14 • 7 686 14 • 7 688 14 • 7 689 14	**2P+E Schuko screw terminal socket with shutter** • 7 681 15 • 7 682 15 • 7 683 15 • 7 684 15 • 7 685 15 • 7 686 15 • 7 688 15 • 7 689 15	**2P+E Schuko screw terminal socket with shutter and flap** • 7 681 18 • 7 682 18 • 7 683 18 • 7 684 18 • 7 685 18 • 7 686 18 • 7 688 18 • 7 689 18	**1 gang plate** • 7 681 71 • 7 682 71 • 7 683 71 • 7 684 71 • 7 685 71 • 7 686 71 • 7 687 71 • 7 688 71 • 7 689 71 • 7 682 81 • 7 683 81

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PEP ecopassport®

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

Total weight of Reference Product	**112 g** (all packaging included)

Plastics as % of weight		**Metals as % of weight**		**Other as % of weight**	
PC	**26.3 %**	Steel	**8.8 %**		
ABS	**11.8 %**	Copper alloys	**4.8 %**		
PS	**<0.1 %**	Other metal	**2.7 %**		
		Al	**<0.1 %**		
Packaging as % of weight					
PP	**4.2 %**			Wood	**22.4 %**
PE	**0.1 %**			Paper	**18.9 %**
Total plastics	**42.4 %**	**Total metals**	**16.3 %**	**Total others**	**41.3 %**

Estimated recycled material content: 18 % by mass.

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 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 88 % (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

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 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) : 36 %
- metal materials (excluding packaging) : 16 %
- packaging (all types of materials) : 40 %

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

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 - § 3.8 Sockets. • Use scenario: non-continuous operation for 20 years at 50% of rated load, during 50% of the time. This modelling duration does not constitute a minimum. • 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	**5.56E+00**	**kgCO_2 eq.**	3.92E-01	**7 %**	1.67E-03	**< 1 %**	3.14E-03	**< 1 %**	5.15E+00	**93 %**	6.29E-03	**< 1 %**
Ozone depletion	**1.98E-07**	**kgCFC-11 eq.**	2.21E-08	**11 %**	3.39E-12	**< 1 %**	2.63E-11	**< 1 %**	1.76E-07	**89 %**	1.38E-10	**< 1 %**
Acidification of soils and water	**5.18E303**	**kgSO_2 eq.**	8.11E-04	**16 %**	7.51E-06	**< 1 %**	1.42E-05	**< 1 %**	4.33E-03	**83 %**	2.44E-05	**< 1 %**
Water eutrophication	**2.79E-03**	**kg$(PO_4)^{3-}$ eq.**	1.60E-03	**58 %**	1.73E-06	**< 1 %**	1.07E-05	**< 1 %**	1.14E-03	**41 %**	3.05E-05	**1 %**
Photochemical ozone formation	**9.42E-04**	**kgC_2H_4 eq.**	7.37E-05	**8 %**	5.34E-07	**< 1 %**	1.02E-06	**< 1 %**	8.65E-04	**92 %**	1.89E-06	**< 1 %**
Depletion of abiotic resources - elements	**2.56E-05**	**kgSb eq.**	2.56E-05	**100 %**	6.69E-11	**< 1 %**	1.44E-10	**< 1 %**	4.77E-08	**< 1 %**	3.79E-10	**< 1 %**
Total use of primary energy	**6.81E+01**	**MJ**	7.77E+00	**11 %**	2.36E-02	**< 1 %**	4.20E-02	**< 1 %**	6.02E+01	**88 %**	7.04E+02	**< 1 %**
Net use of fresh water	**3.80E-02**	**m^3**	3.40E-02	**89 %**	1.50E-07	**< 1 %**	1.03E-06	**< 1 %**	4.01E-03	**11 %**	4.81E-06	**< 1 %**
Depletion of abiotic resources - fossil fuels	**5.52E+01**	**MJ**	5.50E+00	**10 %**	2.35E-02	**< 1 %**	4.07E-02	**< 1 %**	4.96E+01	**90 %**	6.41E-02	**< 1 %**
Water pollution	**3.06E+02**	**m^3**	1.22E+02	**40 %**	2.75E-01	**< 1 %**	4.73E-01	**< 1 %**	1.82E+02	**60 %**	7.45E-01	**< 1 %**
Air pollution	**4.39E+02**	**m^3**	7.20E+01	**16 %**	6.85E-02	**< 1 %**	2.86E-01	**< 1 %**	3.65E+02	**83 %**	6.73E-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.

The products are composed of a plate and a mechanism. According to the case of the socket-outlet configuration, apply the appropriate rules described.

For the socket-outlets with shutters, the environmental impacts of each phase of the lifecycle are obtained by adopting the following coefficients on those of the Reference Product.

	SUM	Manufacturing	Distribution	Installation	Use	End of life
Global warming	**1.0**	1.1	1.0	1.0	1.0	1.0
Ozone depletion	**1.9**	8.7				
Acidification of soils and water	**1.0**	1.0				
Water eutrophication	**1.0**	1.1				
Photochemical ozone formation	**1.0**	1.0				
Depletion of abiotic resources - elements	**1.1**	1.1				
Total use of primary energy	**1.0**	1.0				
Net use of fresh water	**1.0**	1.0				
Depletion of abiotic resources - fossil fuels	**1.0**	1.0				
Water pollution	**1.0**	1.0				
Air pollution	**1.0**	1.0				

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For the socket-outlets with shutters and flap, the environmental impacts of each phase of the lifecycle are obtained by adopting the following coefficients on those of the Reference Product.

	SUM	Manufacturing	Distribution	Installation	Use	End of life
Global warming	**1.0**	1.2	1.1	1.0	1.0	1.2
Ozone depletion	**1.9**	8.8				
Acidification of soils and water	**1.0**	1.1				
Water eutrophication	**1.2**	1.3				
Photochemical ozone formation	**1.0**	1.1				
Depletion of abiotic resources - elements	**1.1**	1.1				
Total use of primary energy	**1.0**	1.1				
Net use of fresh water	**1.1**	1.1				
Depletion of abiotic resources - fossil fuels	**1.0**	1.2				
Water pollution	**1.0**	1.2				
Air pollution	**1.0**	1.1				

For the socket-outlets with a color plate, the environmental impacts are assimilated to the impacts of the Reference Product.

Registration number: LGRP-01181-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: 07-2020	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 : 2016 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	