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# **Product Environmental Profile**

BELANKO - BS socket outlet - 1 gang SP switched external rocker - 13 A





#### ■ 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 13 A under a voltage of 250 V while protecting the user from direct contact with live parts and with a protection class IP 40 and IK 04.
Cat. No 6 171 41  BS socket outlet - 1 gang SP switched external rocker - 13 A.	Reference Product	

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

- 1 Gang 13 A 6 171 41 6 170 41
- 2 Gang 13 A 6 170 46 6 171 46



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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	101 g (all packaging included)

Plastics as % of weight		Metals as % of weight		Other as % of weight		
PC	39.7 %	Steel	14.6 %			
PP	12.0 %	Copper alloys	5.4 %			
PA	0.6 %	Other metal	1.7 %			
Other plastic	0.2 %	Silver alloy	< 0.1 %			
			< 0.1 %	Packaging as % of weight		
				Wood (packaging)	12.4 %	
				Paper (packaging)	12.3 %	
				PP (packaging)	1.1 %	
Total plastics	52.5 %	Total metals	21.7 %	Total other and packaging	25.8 %	

Estimated recycled material content: 17 % 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 1235 miles by road from our warehouse to the local point of distribution into the market in Gulf countries.

Packaging is compliant with applicable regulation. At their end of life, its recyclability rate is 93 % (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 96 %. 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)
- other materials (excluding packaging)
- packaging (all types of materials)
: 24 %



# **■** 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 Gulf countries.

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	<ul> <li>Product category: PSR0005 product category: 3.8.1.1 - Power socket and electronic connection socket.</li> <li>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 durability requirement.</li> <li>Energy model: Electricity Mix; Syria - 2009.</li> </ul>					
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 and database used	EIME V5 and its database «CODDE-2015-04»					



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# ■ SELECTION OF ENVIRONMENTAL IMPACTS ■

	Total for l	_ife cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	e
Global warming	1.01E+01	kgCO <sub>2</sub> eq.	6.61E-01	7 %	6.22E-03	< 1 %	1.54E-03	< 1 %	9.39E+00	93 %	7.78E-03	< 1 %
Ozone depletion	4.99E-06	kgCFC-11 eq.	3.47E-07	7 %	1.26E-11	< 1 %	1.01E-11	< 1 %	4.65E-06	93 %	1.72E-10	< 1 %
Acidification of soils and water	8.67E-03	kgSO <sub>2</sub> eq.	8.31E-04	10 %	2.80E-05	< 1 %	7.13E-06	< 1 %	7.77E-03	90 %	3.02E-05	< 1 %
Water eutrophication	2.36E-03	kg(PO <sub>4</sub> )³- eq.	2.22E-04	9 %	6.43E-06	< 1 %	5.35E-06	< 1 %	2.08E-03	88 %	3.76E-05	2 %
Photochemical ozone formation	1.32E-03	kgC <sub>2</sub> H <sub>4</sub> eq.	1.20E-04	9 %	1.99E-06	< 1 %	5.09E-07	< 1 %	1.19E-03	91 %	2.34E-06	< 1 %
Depletion of abiotic resources - elements	2.38E-04	kgSb eq.	2.38E-04	100 %	2.49E-10	< 1 %	6.76E-11	< 1 %	3.29E-08	< 1 %	4.69E-10	< 1 %
Total use of primary energy	1.01E+02	MJ	1.03E+01	10 %	8.35E-02	< 1 %	2.00E-02	< 1 %	9.02E+01	90 %	8.43E-02	< 1 %
Net use of fresh water	1.30E-02	m³	3.82E-03	30 %	5.57E-07	< 1 %	4.22E-07	< 1 %	9.13E-03	70 %	5.96E-06	< 1 %
Depletion of abiotic resources - fossil fuels	1.44E+02	МЛ	8.70E+00	6 %	8.75E-02	< 1 %	2.15E-02	< 1 %	1.35E+02	94 %	1.09E-01	< 1 %
Water pollution	1.25E+03	m³	2.69E+02	22 %	1.02E+00	< 1 %	2.38E-01	< 1 %	9.76E+02	78 %	9.21E-01	< 1 %
Air pollution	8.35E+02	m³	9.34E+01	11 %	2.55E-01	< 1 %	1.40E-01	< 1 %	7.40E+02	89 %	8.35E-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	Installation	Use	End of life
6 170 41	1.2	1.1	1	1	1.2	1.1
6 171 46	3	1.7	1.7	1.5	3.2	1.8
6 170 46	3	1.7	1.7	1.4	3.2	1.7

Registration N°: LGRP-00490-V01-01-EN	3	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed2-EN-2016 03 29»			
Verifier accreditation N°: VH23	ww.pep-ecopassport.org				
Date of issue: 10-2017					
Independent verification of the declaration and data, in con Internal ☑ External ☐	mpliance with ISO 14025:2010				
The PCR review was conducted by a panel of experts chair	PEP				
The elements of the present PEP cannot be compared with	eco   PASS				
Document in compliance with ISO 14025: 2010: «Environme declarations»	PORT				