

Yo

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Product Environmental Profile

Power socket outlet Classia series





■ BTICINO'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 16 A maximum under a voltage of 250 V a while protecting the user from direct contact with live parts.						
	BT-RW41						
	Socket 2P+E 10A and 16A 250 Va.c German and Italian standard						
Reference Product							
	BT-R4702G	BT-R4802RW					
	Supporting frame with clips - 2 modules	Cover plate - 2 modules - 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:

BT-RW4140A16	BT-R4702G	BT-R4802RW	
BT-RG4140A16, BT-R4140A16R		BT-R4802CR - MK - BC - ES - CS - WS - BG - TM	
BT-RW4141, BT-RG4141, BT-R4141A, BT-R4141R, BT-R4141V		BT-R4802SF - LM - TF - WD - WR - BH - BD	



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Total weight of

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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 and its delegated directive 2015/863/EU.

Reference Product	130 g (all	130 g (all packaging included)						
Plastics as % of weight		Metals as % of weight		Others as % of weight				
Polycarbonate	18,7 %	Copper alloys	13,0 %					
Polyamide	13,4 %	Steel	9,6 %					
ABS	10,7 %							
Polyethylene	0,2 %							
		Packagi	ng					
Polypropylene	6,1 %			Paper / Carboard	19,4 %			
				Wood	8,9 %			
Total plastics	49,1 %	Total metals	22,6 %	Total others	28,3 %			

Estimated recycled material content: 23 % 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 3500 km by road from our warehouse to the local point of distribution into the European market. Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 81 % (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. This product falls within the scope of the WEEE directive (2012/19/EU). Therefore it must be processed through local WEEE recycling/recovery channels.

• Extended producer responsability:

The sale of this product is subject to a contribution to eco-organisations in each country responsible for managing end-of-life products in the field of application of the European Waste Electronic and Electrical Equipment Directive.

· Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 91 %. 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)
22 %
packaging (all types of materials)
28 %



■ 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, 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: PSR-0005-ed2-2016 03 29 - § 3.8. Socket 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. Energy model: Electricity Mix, Europe 27 - 2008.
End of life	The default end of life scenario maximizing the impacts.
Software and database used	EIME V5 and its database «CODDE-2018-11»



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■ SELECTION OF ENVIRONMENTAL IMPACTS I

	Total for l	_ife cycle	Raw material and manufacture		Distribution		Installation		Use		End of life	
Global warming	1.67E+01	kgCO ₂ eq.	6.19E-01	4%	2.27E-02	< 1%	3.11E-03	< 1%	1.61E+01	96%	8.61E-03	< 1%
Ozone depletion	1.18E-06	kgCFC-11 eq.	1.28E-07	11%	4.59E-11	< 1%	3.64E-11	< 1%	1.05E-06	89%	1.84E-10	< 1%
Acidification of soils and water	6.84E-02	kgSO ₂ eq.	1.10E-03	2%	1.02E-04	< 1%	1.39E-05	< 1%	6.71E-02	98%	3.36E-05	< 1%
Water eutrophication	5.64E-03	kg(PO ₄)³- eq.	1.50E-03	27%	2.34E-05	< 1%	1.31E-05	< 1%	4.05E-03	72%	4.25E-05	< 1%
Photochemical ozone formation	3.80E-03	kgC ₂ H ₄ eq.	9.82E-05	3%	7.24E-06	< 1%	1.01E-06	< 1%	3.69E-03	97%	2.60E-06	< 1%
Depletion of abiotic resources - elements	2.35E-05	kgSb eq.	2.21E-05	94%	9.07E-10	< 1%	1.53E-10	< 1%	1.40E-06	6%	5.12E-10	< 1%
Total use of primary energy	3.33E+02	МЛ	1.13E+01	3%	3.21E-01	< 1%	4.02E-02	< 1%	3.21E+02	96%	9.70E-02	< 1%
Net use of fresh water	5.84E+01	m³	6.65E-02	< 1%	2.03E-06	< 1%	1.39E-06	< 1%	5.84E+01	100%	6.40E-06	< 1%
Depletion of abiotic resources - fossil fuels	1.90E+02	МЛ	7.13E+00	4%	3.19E-01	< 1%	3.84E-02	< 1%	1.83E+02	96%	8.86E-02	< 1%
Water pollution	7.94E+02	m³	1.25E+02	16%	3.73E+00	< 1%	4.46E-01	< 1%	6.64E+02	84%	1.03E+00	< 1%
Air pollution	8.26E+02	m³	1.31E+02	16%	9.30E-01	< 1%	3.36E-01	< 1%	6.93E+02	84%	9.04E-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 environmental impacts are calculated for a configuration composed by socket, support and cover plate. Socket different colours do not cause variations in the environmental impacts.

For products covered by the PEP other than the Reference Product, the environmental impacts of the other socket outlet are obtained multiplying the Reference Product environmental impacts by the coefficients in the following table.

Power socket outlet	et outlet Total To		Manufacturing	Manufacturing (only for ADPe)	Distribution	Installation	Use	End of Life
Italian-German	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
German	1,0	0,7	0,9	0,7	1,0	1,0	1,0	1,0

In addition, for the Functional Units realized with "Accents" cover plates, the Water eutrophication indicator of the Manufacturing phase, take the coefficient 1.3.

Registration N°: LGRP-01317-V01.01-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04 02 Supplemented by PSR-0005-ed2-2016 03 29
Verifier accreditation N°: VH02	Information and reference documents : www.pep-ecopassport.org
Date of issue: 01-2021	Validity period: 5 years
Independent verification of the declaration and data, in complete Internal \square External \square	pliance with ISO 14025:2010
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 e	elements from another program
Document in compliance with ISO 14025 : 2010: «Environment declarations»	
Environmental data in alignment with EN 15804 : 2012 + A1 :	: 2013