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Product Environmental Profile

Power socket outlet French-Belgian standard Axolute 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 lo while protecting the user from direct contact with live p	ad consuming 16 A maximum under a voltage of 250 V parts, according to standards NFC-15100 et IEC 60884-1.				
		lidescent .				
	BT-H4702	BT-HA4802XC				
Reference Product	2 modules support - screws equipped	2 modules square cover plate - white				
	BT-HC4142AN					
	2 P + E 16A 250V a.c. socket - French/Belgian standard					

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-H4702	BT-HA4802XC	BT-HC4142AN
BT-H4702IT, BT-H4703, BT-H4704, BT-H4706	BT-HA4802HD, HC, HS, XC, XS, NX, BG, RC, BM, VS, CR, BR, AZ	BT-HD4142AN, BT-HS4142AN
	BT-HA4804HD, HC, HS, XC, XS, NX, BG, RC, BM, VS, CR, BR, AZ BT-HA4806HD, HC, HS, XC, XS, NX, BG, RC, BM, VS, CR, BR, AZ	BT-HC4142AF, BT-HD4142AF, BT-HS4142AF





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Total weight of

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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.

Reference Product	200 g (with	200 g (with unit packaging)						
Plastics as % of weight		Metals as % of weight		Other (packaging) as % of weight				
Polycarbonate	23,1 %	Aluminium	24,1 %	Paper / cardboard	20,7 %			
Polyamide	0,2 %	Steel	11,1 %	Wood	14,7 %			
		Copper alloys	4,7 %	PVC	1,0 %			
				Polyethylene	0,4 %			
Total plastics	23,3 %	Total metals	39,9 %	Total other (packaging)	36,8 %			

Estimated recycled material content: 35 % by mass.



MANUFACTURE

This Reference Product comes from sites that 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 780 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, the recyclability rate is 94 % (in % of packaging weight).



■ INSTALLATION ■

For the installation of the product, only standard tools are needed.



USE I

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 97 %. 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:

 $\begin{array}{lll} - \ plastic \ materials \ (excluding \ packaging) & : 22 \ \% \\ - \ metal \ materials \ (excluding \ packaging) & : 40 \ \% \\ - \ packaging \ (all \ types \ of \ materials) & : 35 \ \% \end{array}$



■ 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: passive product. 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 - 2002. 	
End of life	The default end of life scenario maximizing the impacts.	
Software and database used	EIME V5 and its database «CODDE-2015-04»	





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■ SELECTION OF ENVIRONMENTAL IMPACTS ■

	Total for I	Life cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	e
Global warming	5.70E+00	kgCO ₂ eq.	1.55E+00	27%	7.76E-03	< 1%	4.25E-03	< 1%	4.13E+00	72%	1.05E-02	< 1%
Ozone depletion	1.36E-06	kgCFC-11 eq.	3.59E-07	26%	1.57E-11	< 1%	2.83E-11	< 1%	1.00E-06	74%	1.71E-10	< 1%
Acidification of soils and water	3.55E-02	kgSO ₂ eq.	4.17E-03	12%	3.49E-05	< 1%	1.99E-05	< 1%	3.12E-02	88%	4.19E-05	< 1%
Water eutrophication	1.90E-03	kg(PO ₄)³- eq.	6.46E-04	34%	8.02E-06	< 1%	1.61E-05	< 1%	1.17E-03	62%	5.91E-05	3%
Photochemical ozone formation	1.79E-03	kgC ₂ H ₄ eq.	3.09E-04	17%	2.48E-06	< 1%	1.42E-06	< 1%	1.48E-03	82%	3.21E-06	< 1%
Depletion of abiotic resources - elements	3.53E-05	kgSb eq.	3.51E-05	99%	3.11E-10	< 1%	1.87E-10	< 1%	1.88E-07	< 1%	5.61E-10	< 1%
Total use of primary energy	1.10E+02	МЛ	2.65E+01	24%	1.10E-01	< 1%	6.10E-02	< 1%	8.36E+01	76%	1.51E-01	< 1%
Net use of fresh water	3.03E-02	m³	1.95E-02	64%	6.95E-07	< 1%	1.20E-06	< 1%	1.08E-02	36%	6.08E-06	< 1%
Depletion of abiotic resources - fossil fuels	5.94E+01	МЛ	1.66E+01	28%	1.09E-01	< 1%	5.95E-02	< 1%	4.25E+01	72%	1.44E-01	< 1%
Water pollution	6.19E+02	m³	4.42E+02	71%	1.28E+00	< 1%	6.58E-01	< 1%	1.73E+02	28%	1.33E+00	< 1%
Air pollution	3.50E+02	m³	1.71E+02	49%	3.18E-01	< 1%	4.14E-01	< 1%	1.77E+02	51%	9.29E-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 are calculated for a configuration composed by French/Belgian standard Socket, Support and Cover plate. To obtain the environmental impacts for each phase of the lifecycle, multiply those of Reference Product for these coefficients:

Power socket outlet configuration	Total	Manufacturing	Distribution	Installation	Use	End of life
Axolute 2 modules flat socket	1,1	1,3	1,0	1,0	1,0	1,0
Axolute 4 modules (with 2 sockets)	1,9	1,5	1,5	1,7	2,0	1,6
Axolute 6 modules (with 3 sockets)	2,8	2,1	2,2	2,8	3,0	2,1

Registration N°: LGRP-00307-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: 11-2016	Validity period: 5 years
Independent verification of the declaration and data, in Internal $\ \ \ \ \ \ \ \ \ \ \ \ \ $	
The PCR review was conducted by a panel of experts ch	aired by Philippe Osset (SOLINNEN)
The elements of the present PEP cannot be compared v	vith elements from another program
Document in compliance with ISO 14025 : 2010: «Environ declarations»	nmental labels and declarations. Type III environmental
Environmental data in alignment with EN 15804 : 2012 -	+ A1 : 2013