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Product Environmental Profile

Power socket outlet French-Belgian standard LivingLight 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	Allow the connection to a 250V low voltage circuit, acconon-continuous operation (30% of time) during 20 years with rated load not exceeding 16A. PSR category: passiv	s (household or similar purposes) at 30% of rated load,					
	Outside the second seco	7 7 7					
	BT-LNA4802BI	BT-LN4702					
Reference Product	2 modules square cover plate - white 2 modules support - screws equ						
	BT-LN4	BT-LN4142AN					
	2 P + E 16A 250 V 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-LNA4802BI	BT-LN4702	BT-LN4142AN
BT-LNA4802AR - TE	BT-L4702 - BT-L4702G	BT-L4142AN - BT-L4142AF
BT-LNA4802PA - PB - BI	BT-LN4719 - BT-LN4719G	BT-N4142AN - BT-N4142AF
BT-LNA4819BI - AR - TE		BT-NT4142AN - BT-NT4142AF





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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	eference Product 96 g (with unit packaging)					
Plastics as % of weight		Metals as % of weight		Other (packaging) as % of we	eight	
Polycarbonate	33,2 %	Copper alloys	9,8 %	Paper / cardboard	20,0 %	
ABS	15,9 %	Steel	2,9 %	Wood	15,9 %	
Polyamide	0,5 %			Polyethylene	1,7 %	
Other plastics	0,1 %					
Total plastics	49,7 %	Total metals	12,7 %	Total other (packaging)	37,6 %	

Estimated recycled material content: 15 % 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, its recyclability rate is 93 % (in % of packaging weight).



■ INSTALLATION ■

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



USE E

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 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)
packaging (all types of materials)
35 %



■ 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: active product. Use scenario: non-continuous operation for 20 years at 30% of rated load, during 30% 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 I

	Total for I	Life cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	a
Global warming	4.68E+00	kgCO ₂ eq.	5.38E-01	12%	3.71E-03	< 1%	2.08E-03	< 1%	4.13E+00	88%	6.31E-03	< 1%
Ozone depletion	1.21E-06	kgCFC-11 eq.	2.04E-07	17%	7.52E-12	< 1%	1.42E-11	< 1%	1.00E-06	83%	1.47E-10	< 1%
Acidification of soils and water	3.18E-02	kgSO ₂ eq.	5.38E-04	2%	1.67E-05	< 1%	9.68E-06	< 1%	3.12E-02	98%	2.43E-05	< 1%
Water eutrophication	1.40E-03	kg(PO ₄)³- eq.	1.85E-04	13%	3.83E-06	< 1%	7.67E-06	< 1%	1.17E-03	84%	2.95E-05	2%
Photochemical ozone formation	1.56E-03	kgC ₂ H ₄ eq.	8.56E-05	5%	1.18E-06	< 1%	6.90E-07	< 1%	1.48E-03	94%	1.89E-06	< 1%
Depletion of abiotic resources - elements	1.36E-05	kgSb eq.	1.34E-05	99%	1.49E-10	< 1%	9.17E-11	< 1%	1.88E-07	1%	3.89E-10	< 1%
Total use of primary energy	9.49E+01	MJ	1.11E+01	12%	5.25E-02	< 1%	2.98E-02	< 1%	8.36E+01	88%	9.59E-02	< 1%
Net use of fresh water	1.50E-02	m³	4.25E-03	28%	3.32E-07	< 1%	5.92E-07	< 1%	1.08E-02	72%	5.08E-06	< 1%
Depletion of abiotic resources - fossil fuels	5.02E+01	МЛ	7.52E+00	15%	5.21E-02	< 1%	2.91E-02	< 1%	4.25E+01	85%	8.92E-02	< 1%
Water pollution	3.82E+02	m³	2.07E+02	54%	6.10E-01	< 1%	3.21E-01	< 1%	1.73E+02	45%	7.35E-01	< 1%
Air pollution	2.78E+02	m³	1.00E+02	36%	1.52E-01	< 1%	1.98E-01	< 1%	1.77E+02	64%	7.01E-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
LL 2 centred modules	1,0	1,3	1,2	1,2	1,0	1,4
LL 4 modules (with 2 sockets)	2,0	1,9	1,8	2,0	2,0	1,8
Living International Polymer	1,1	1,1	1,0	1,0	1,0	1,1

For the power socket outlet configuration with Flat 2P+E French/Belgian standard socket, the environmental impacts of the table are obtained multiplying the total values on the table for the coefficient 1.1.

Registration N°: LGRP-00232-V01.01-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04 02 Supplemented by PSR-0005-ed1-2012 12 11
Verifier accreditation N°: VH02	Information and reference documents : www.pep-ecopassport.o
Date of issue: 08-2016	Validity period: 5 years
Independent verification of the declaration and data, in co Internal ☑ External □ The pool is the pool of the declaration and data, in co	- DE
The PCR review was conducted by a panel of experts chair	ed by Philippe Ossel (SOLINNEN)
The elements of the present PEP cannot be compared wit	n elements from another program
Document in compliance with ISO 14025 : 2010: «Environm declarations»	ental labels and declarations. Type III environmental
Environmental data in alignment with EN 15804 : 2012 + A	1 : 2013