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Your usual Sales office
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Product Environmental Profile

Ura One Legrand M/NM Ni-Cd

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	Facilitate evacuation of the public, by ensuring illumination of 200 lumens for 1 hour, in order to avoid any risk of panic and to guarantee the visibility of any obstacles along the evacuation routes / entrance halls leading to the exit doors, in the event of their electrical power supply failure. This function shall be ensured for 10 years by its self-contained power supply.
Reference Product	
	Cat.No 6 626 33
	URA ONE M/NM 200LM 1H IP42 LVS2.

PRODUCTS CONCERNED

The environmental data is representative of the following products:

Cat. Numbers	Designation	Lumen (lm)	Autonomy	Consumption (W)	IP	IK
6 626 33	URA ONE M/NM 200LM 1H IP42 LVS2	200	1H	2	42	07
6 616 31	URA ONE M/NM 100LM 1H IP42 STD	100				
6 616 32	URA ONE M/NM 160LM 1H IP42 STD	160				
6 616 33	URA ONE M/NM 200LM 1H IP42 STD	200				
6 616 34	URA ONE M/NM 350LM 1H IP42 STD	350				
6 626 31	URA ONE M/NM 100LM 1H IP42 LVS2	100				

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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.

Total weight of Reference Product	**689 g** (all packaging included)

Plastics as % of weight		**Metals as % of weight**		**Other as % of weight**	
PC	**23.7 %**	Copper alloys	**1.7 %**	Accumulators	**27.0 %**
PP	**7.1 %**	Other metal	**0.3 %**	Electronic card	**8.7 %**
PET	**0.9 %**	Steel	**0.2 %**		
PE	**0.5 %**	Al	**< 0.1 %**		
				Packaging as % of weight	
				Wood	**19.9 %**
				Paper	**9.9 %**
				PE	**0.1 %**
Total plastics	**32.2 %**	**Total metals**	**2.2 %**	**Total other and packaging**	**65.6 %**

Estimated recycled material content: 14 % by mass.

For product 6 616 33 (649 g) and 6 616 34 (689 g) see the Reference Product.

Total weight of product	**6 616 31: 579 g, 6 616 32 or 6 626 31: 639 g** (all packaging included)

Plastics as % of weight		**Metals as % of weight**		**Other as % of weight**	
PC	**28 % Max**	Copper alloys	**2.1 % Max**	Accumulators	**16.3 % Max**
PP	**8.5 % Max**	Other metal	**0.4 % Max**	Electronic card	**10 % Max**
PET	**1.1 % Max**	Steel	**0.3 % Max**		
PE	**0.6 % Max**	Al	**< 0.1 %**		
				Packaging as % of weight	
				Wood	**23.5 % Max**
				Paper	**11.8 % Max**
				PE	**0.2 % Max**
Total plastics	**38.2 % Max**	**Total metals**	**2.8 % Max**	**Total other and packaging**	**60.2 % Max**

Estimated recycled material content: 11 % 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 780 km by road from our warehouse to the local point of distribution into the market in Europe.

Packaging is compliant with european directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 96 % (in % of packaging weight).

INSTALLATION

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

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USE

Under normal conditions of use, this product requires no servicing, no maintenance or additional products.

Cat. No	Quantity	Type of batteries	Weight
6 626 33	1	BATTERY Ni-Cd 1.5Ah 4.8V Cs HT STICK WITH CONNECTOR	186g
6 616 34			
6 626 31		BATTERY Ni-Cd 1.5Ah 3.6V Cs HT STICK WITH CONNECTOR	140g
6 616 32			
6 616 33			
6 616 31		BATTERY Ni-Cd 1.5Ah 2.4V Cs HT STICK WITH CONNECTOR	94.5g

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. This product falls within the scope of the WEEE directive (2012/19/EU). Therefore it must be processed through local WEEE recycling/recovery channels.

• Elements to process specifically:
In accordance with the requirements of this Directive, the following components must be removed and sent to specific channels for processing which comply with the WEEE Directive 2012/19/EU:

- plastic parts with brominated flame retardant: 53 g
- electronic card: 60 g
- accumulators Ni-Cd: 186 g*

(*) Hazardous waste as defined by European Commission decision 2000/532/EU.

• Extended producer responsability:
In France, the sale of products covered by the field of application of the European Directive on Waste Electronic and Electrical 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 81 %. 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) : 31 %
- metal materials (excluding packaging) : 2 %
- other materials (excluding packaging) : 19 %
- packaging (all types of materials) : 29 %

For product 6 616 33 and 6 616 34 see the Reference Product

For products covered by the PEP other than the Reference Product, the recyclability rates are:	6 616 31 6 616 32 6 626 31
- Estimated recyclability rate of the product:	85 %
- Plastic materials (excluding packaging):	35 %
- Metal materials (excluding packaging):	3 %
- Other materials (excluding packaging):	12 %
- Packaging (all types of materials):	33 %

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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: for a 10 years working life, in continuous operation at 100 % rated load 2 W 230 V~ for 100 % of the time. This modelling duration does not constitute a minimum durabilty 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»

SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Global warming	**1.14E+02**	**kgCO_2 eq.**	6.46E+00	**6 %**	2.67E-02	**< 1 %**	1.11E-02	**< 1 %**	1.07E+02	**94 %**	5.72E-02	**< 1 %**
Ozone depletion	**2.59E-05**	**kgCFC-11 eq.**	6.95E-07	**3 %**	5.42E-11	**< 1 %**	4.54E-11	**< 1 %**	2.52E-05	**97 %**	1.44E-09	**< 1 %**
Acidification of soils and water	**7.98E-01**	**kgSO_2 eq.**	9.19E-03	**1 %**	1.20E-04	**< 1 %**	5.17E-05	**< 1 %**	7.89E-01	**99 %**	2.18E-04	**< 1 %**
Water eutrophication	**3.34E-02**	**kg$(PO_4)^{3-}$ eq.**	2.31E-03	**7 %**	2.76E-05	**< 1 %**	2.99E-05	**< 1 %**	3.08E-02	**92 %**	2.51E-04	**< 1 %**
Photochemical ozone formation	**3.86E-02**	**kgC_2H_4 eq.**	1.09E-03	**3 %**	8.54E-06	**< 1 %**	3.66E-06	**< 1 %**	3.75E-02	**97 %**	1.70E-05	**< 1 %**
Depletion of abiotic resources - elements	**5.61E-03**	**kgSb eq.**	2.35E-03	**42 %**	1.07E-09	**< 1 %**	4.63E-10	**< 1 %**	3.26E-03	**58 %**	3.66E-09	**< 1 %**
Total use of primary energy	**2.21E+03**	**MJ**	1.85E+02	**8 %**	3.59E-01	**< 1 %**	1.48E-01	**< 1 %**	2.02E+03	**92 %**	6.07E-01	**< 1 %**
Net use of fresh water	**5.53E-01**	**m^3**	1.14E-01	**21 %**	2.39E-06	**< 1 %**	2.03E-06	**< 1 %**	4.39E-01	**79 %**	4.97E-05	**< 1 %**
Depletion of abiotic resources - fossil fuels	**1.20E+03**	**MJ**	8.21E+01	**7 %**	3.76E-01	**< 1 %**	1.56E-01	**< 1 %**	1.12E+03	**93 %**	8.15E-01	**< 1 %**
Water pollution	**6.13E+03**	**m^3**	1.45E+03	**24 %**	4.40E+00	**< 1 %**	1.78E+00	**< 1 %**	4.66E+03	**76 %**	6.49E+00	**< 1 %**
Air pollution	**6.06E+03**	**m^3**	9.00E+02	**15 %**	1.10E+00	**< 1 %**	8.26E-01	**< 1 %**	5.15E+03	**85 %**	6.72E+00	**< 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.

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SELECTION OF ENVIRONMENTAL IMPACTS (CONTINUED)

For products covered by the PEP other than the Reference Product, the environmental impacts of each phase of the lifecycle are calculated with:

The installation phase and use phase do not represent significant differences with the Reference Product	Reference rate 200 lm: 6 626 33 200 lm: 6 616 33 350 lm: 6 616 34	Reference rate 100 lm: 6 626 31 100 lm: 6 616 31 160 lm: 6 616 32		
		Manufacturing	Distribution	End of life
Global warming	1	0.9	0.9	0.8
Ozon depletion				
Acidification des sols et de l'eau				
Eutrophisation de l'eau				
Formation d'ozone photochimique				
Appauvrissement des ressources abiotiques - éléments				
Total d'énergie primaire utilisée				
Volume net d'eau douce consommée				
Appauvrissement des ressources abiotiques - énergie fossiles				
Pollution de l'eau		1.0		
Pollution de l'air		0.9		

Registration N°: LGRP-00660-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0007-ed1.1-FR-2015 10 16»
Verifier accreditation N°: VH23	Information and reference documents: **www.pep-ecopassport.org**
Date of issue: 04-2018	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 : 2014 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	