La legrand

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Your usual Sales office www.legrand.com

Product Environmental Profile

U33 - indoor self-contained emergency lighting luminaires - 8 W fluorescent





LEGRAND'S ENVIRONMENTAL COMMITMENTS I

• 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.).

Function	Provide 200 lumens illumination for 1 hour duration in escape routes and open areas, to avoid panic and to enable safe evacuation in the premises, when the power supply to the mains lighting circuits fails. This function is powered for 10 years by its own power supply.
Reference Product	Cat.No 6 611 20

cannot be held binding on the company.



PRODUCTS CONCERNED

The environmental data is representative of the following products:

Catalogue Numbers	
• 6 611 20	
• 6 611 10	

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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	1073 g (w	1073 g (with unit packaging)							
Plastics as % of weight		Metals as % of weight		Other as % of weight					
PC	45.9 %	Copper alloys	1.1 %	Batteries and accumulators	17.7 %				
ABS	3.6 %	Steel	0.3 %	Electronic card	6.2 %				
PA	1.1 %	Other metal	0.2 %	Fluorescent lamp	2.3 %				
PE	0.5 %			Cables / Electric wires	0.4 %				
PBT	0.2 %			Various electronic components	0.2 %				
Various plastic	0.3 %								
				Packaging as % of weight					
				Paper (packaging)	14.5 %				
				Wood (packaging)	5.3 %				
				Various packaging	0.2 %				
Total plastics	51.6 %	Total metals	1.6 %	Total other and packaging	46.8 %				

Estimated recycled material content: 16 % by mass.



MANUFACTURE

This Reference Product comes from a site that has received ISO14001 certification.



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 98 % (in % of packaging weight).



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



USE

Under normal conditions of use, this product requires:

Changing 1 battery pack: the modeling is based on a lifetime of batteries 4 years, twice the battery pack 6 609 60 on a modeled life of 10 years (in addition with batteries supplied in the product).

Changing 1 Fluo linear tube: the modeling is based on a lifetime of Fluo linear tube 1 year, 9 times the Fluo linear tube 0 609 41 on a modeled life of 10 years (in addition with batteries supplied in the product).

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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:

- electronic card: 67 g
- plastic parts with brominated flame retardant: 196 g
- fluorescent lamp: 25 g*
- Ni-Cd accumulator: 189 g*

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

• 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 86 %. 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)	: 49 %
 metal materials (excluding packaging) 	:2%
 other materials (excluding packaging) 	: 15 %

- other materials (excluding packaging) : 15 % - packaging (all types of materials) : 20 %



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 % of rated load, 1.5 W 100 % of 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	_ife cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	9
Global warming	9.17E+01	kgCO ₂ eq.	1.04E+01	11 %	4.17E-02	< 1 %	1.27E-02	< 1 %	8.12E+01	89 %	1.02E-01	< 1 %
Ozone depletion	1.97E-05	kgCFC-11 eq.	7.85E-07	4 %	8.44E-11	< 1 %	7.69E-11	< 1 %	1.90E-05	96 %	2.58E-09	< 1 %
Acidification of soils and water	6.07E-01	kgSO ₂ eq.	1.27E-02	2 %	1.87E-04	< 1 %	6.08E-05	< 1 %	5.93E-01	98 %	3.88E-04	< 1 %
Water eutrophication	3.01E-02	kg(PO ₄) ³⁻ eq.	6.12E-03	20 %	4.30E-05	< 1 %	5.48E-05	< 1 %	2.35E-02	78 %	4.45E-04	1 %
Photochemical ozone formation	3.01E-02	kgC ₂ H ₄ eq.	1.79E-03	6 %	1.33E-05	< 1 %	4.30E-06	< 1 %	2.82E-02	94 %	3.03E-05	< 1 %
Depletion of abiotic resources - elements	5.84E-03	kgSb eq.	2.52E-03	43 %	1.67E-09	< 1 %	5.46E-10	< 1 %	3.32E-03	57 %	6.54E-09	< 1 %
Total use of primary energy	2.13E+03	MJ	2.90E+02	14 %	5.89E-01	< 1 %	1.81E-01	< 1 %	1.84E+03	86 %	1.57E+00	< 1 %
Net use of fresh water	5.00E-01	m ³	1.25E-01	25 %	3.73E-06	< 1 %	3.45E-06	< 1 %	3.75E-01	75 %	8.90E-05	< 1 %
Depletion of abiotic resources - fossil fuels	9.89E+02	MJ	1.36E+02	14 %	5.85E-01	< 1 %	1.77E-01	< 1 %	8.51E+02	86 %	1.45E+00	< 1 %
Water pollution	7.18E+03	m ³	3.57E+03	50 %	6.85E+00	< 1 %	1.98E+00	< 1 %	3.58E+03	50 %	1.15E+01	< 1 %
Air pollution	5.22E+03	m ³	1.15E+03	22 %	1.71E+00	< 1 %	1.36E+00	< 1 %	4.05E+03	78 %	1.20E+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 asimilated to the impacts of the Reference Product.

Registration N°: LGRP-00147-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed1-2012 12 11»				
Verifier accreditation N°: VH23	Information and reference documents : www.pep-ecopassport.org				
Date of issue: 07-2016	Validity period: 5 years				
Independent verification of the declaration and data, in compliance w Internal 🛛 External 🗌					
The PCR review was conducted by a panel of experts chaired by Phili	ppe Osset (SOLINNEN)				
The elements of the present PEP cannot be compared with elements	s from another program				
Document in compliance with ISO 14025 : 2010: «Environmental label declarations»	Is and declarations. Type III environmental				
Environmental data in alignment with EN 15804 : 2012 + A1 : 2013					