

Building 4, Nexus Industry Park 43-47 Lyn Parade, Prestons NSW 2170, Australia

Phone: 1300 369 777 - Fax: 1300 369 780

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Product Environmental Profile

BOLT EMERGENCY EXIT SIGN





■ 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 the evacuation of personnel by providing 8 lumens of light for 5 hours in the event of an electrical power cut. This function is provided for ten years by its self contained power supply.
Reference Product	tegrand 24m
	Cat.No 659573LI
	24m viewing distance Emergency Exit sign with snap-fit bracket, IP20. Lithium ion (LIION) batery technology.

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:

Catalogue Numbers						
• 659573LI	• 659575LI	• 659135LI	• 659137LI			
• 659574LI	• 659576LI	• 659136LI	• 659138LI			
• 659577LI	• 659578LI	• 659139LI	• 659140LI			



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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 amended by delegated directive (EU) 2015/863, and its amendment 2017/2102/EU.

Total weight of	
Reference Product	1705 g (all packaging included)

Plastics as % of weight		Metals as % of weight		Other as % of weight			
Polycarbonate (PC)	54.6 %	Steel <0.1 % E		Electronic PCB	3.9 %		
Poly(methyl methacrylate) (PMMA)	3.2 %	Silver alloys	<0.1 %	Batteries	2.5 %		
Polyamide (PA)	0.2 %	Copper alloys	<0.1 %	Various electronic components	0.4 %		
Packaging as % of weight							
Polypropylene (PP)	3.9 %			Wood	15.2 %		
Polyethylene Tetracholride (PET)	1.3 %			Paper	14.8 %		
Total plastics	63.2 %	Total metals	0.0 %	Total others	36.8 %		

Estimated recycled material content: 12% by mass.



MANUFACTURE 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 1,177km by road and 373km by sea from our warehouse to the local point of distribution into the market in Australia and New Zealand.

Packaging is compliant with Australian Consumer Law and other applicable regulation. At their end of life, its recyclability rate is 83% (in % of packaging weight).



INSTALLATION I

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 85%. 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)
 other materials (excluding packaging)
 29%
 packaging (all types of materials)



■ ENVIRONMENTAL IMPACTS I

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 of products marketed and used in Australia and New Zealand.

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, PSR-0007-ed.1-EN-2015 10 16, Escape route emergency lighting. Use scenario: For a 10 years working life in continuous operation at 100% of rated load (2.5W at 240V) during 100% of the time. This modelling time does not constitute a requirement for minimal durability. Energy model: Electricity Mix, Australia - 2009.
End of life	The default end of life scenario maximizing the impacts.
Software and database used	EIME & database CODDE-2018-11



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■ SELECTION OF ENVIRONMENTAL IMPACTS ■

	Total for l	Raw material and ife cycle manufacture			Distribution		Installation		Use		End of life	e
Global warming	2.55E+02	kgCO ₂ eq.	1.09E+01	4%	1.08E-01	< 1 %	3.88E-02	< 1 %	2.44E+02	96%	1.33E-01	< 1 %
Ozone depletion	5.54E-06	kgCFC-11 eq.	2.61E-06	47%	2.16E-10	< 1%	4.01E-10	< 1 %	2.93E-06	53%	3.40E-09	< 1 %
Acidification of soils and water	2.79E-01	kgSO ₂ eq.	2.71E-02	10%	7.24E-04	< 1 %	1.74E-04	< 1 %	2.50E-01	90%	5.07E-04	< 1 %
Water eutrophication	1.18E-01	kg(PO ₄)³- eq.	5.16E-02	44%	1.29E-04	< 1 %	1.41E-04	< 1 %	6.60E-02	56%	5.79E-04	< 1 %
Photochemical ozone formation	3.65E-02	kgC ₂ H ₄ eq.	2.41E-03	7%	4.54E-05	< 1 %	1.26E-05	< 1 %	3.40E-02	93%	3.96E-05	< 1 %
Depletion of abiotic resources - elements	2.62E-04	kgSb eq.	2.61E-04	100%	4.29E-09	< 1 %	1.86E-09	< 1 %	9.61E-07	< 1%	8.59E-09	< 1 %
Total use of primary energy	3.77E+03	МЛ	1.86E+02	5%	1.52E+00	< 1 %	5.09E-01	< 1 %	3.58E+03	95%	1.45E+00	< 1 %
Net use of fresh water	9.90E-01	m³	7.42E-01	75%	9.56E-06	< 1 %	1.53E-05	< 1 %	2.48E-01	25%	1.17E-04	< 1 %
Depletion of abiotic resources - fossil fuels	3.52E+03	МЛ	1.42E+02	4%	1.51E+00	< 1 %	4.89E-01	< 1 %	3.38E+03	96%	1.30E+00	< 1 %
Water pollution	1.43E+04	m³	3.12E+03	22%	1.76E+01	< 1 %	5.69E+00	< 1 %	1.12E+04	78%	1.51E+01	< 1 %
Air pollution	2.42E+04	m³	7.41E+02	3%	5.39E+00	< 1 %	3.73E+00	< 1 %	2.34E+04	97%	1.58E+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.



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■ SELECTION OF ENVIRONMENTAL IMPACTS (EXTRAPOLATION RULE) ■

For products covered by the PEP other than the reference product (see products concerned), the environmental impacts of each phase of the life cycle are calculated by weighting the environmental impacts of the Reference product by the following corresponding coefficient factors.

		Coefficient to apply per phase of the life cycle					
Designation	References	Total Life cycle	Raw material and manufacture	Distribution	Installation	Use	End of life
Bolt LED Exit sign snap-fit standalone	659573LI, 659574LI , 659577LI	1.0	1.0	1.0	1.0	1.0	1.0
Bolt LED Exit sign slide connect standalone	659575LI, 659576LI, 659578LI	1.1	1.2	1.2	1.2	1.0	1.2
Bolt LED Exit sign snap-fit galaxy	659135LI, 659136LI, 659139LI	1.1	1.1	1.1	1.0	1.1	1.1
Bolt LED Exit sign slide connect galaxy	659137LI, 659138LI, 659140LI	1.2	1.3	1.3	1.2	1.1	1.4

Registration number: LGRP-01371-V01.01-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04 02 Supplemented by : PSR-0007-ed1.1-2015 10 16
Verifier accreditation N°: VH23	Information and reference documents: www.pep-ecopassport.org
Date of issue: 11-2021	Validity period: 5 years
Independent verification of the declaration and data, in complian Internal ☐ External ☐	nce 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 elem	nents from another program CO PASS
Document in compliance with ISO 14025 : 2010: Environmental l Type III environmental declarations	
Environmental data in alignment with EN 15804: 2012 + A1 : 201	13