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Product Environmental Profile

G2 LED EMERGENCY EXIT





■ 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

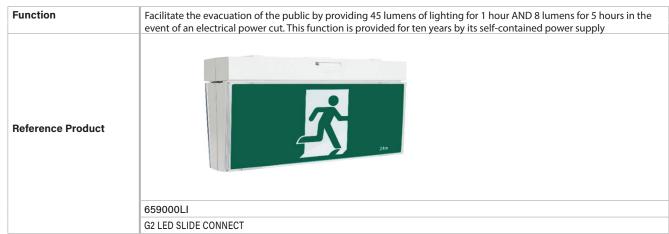
Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations.

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 I



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

659000LI, 659001LI, 659002LI, 686200/LI, 686203/LI, 686206/LI, 686208/LI, 686211/LI



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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	2.002 kg (all packaging included)

Product alone weight 1.99 kg									
Plastics as % of weight		Metals as % of weight		Other as % of weight					
PC	54.6 %	Steel	0.4 %	Other batteries	2.3 %				
PP	5.4 %	Copper and copper alloys	1.2 %	Various components	1.6 %				
PA	1.2%	Tin	0.2%	PWB < 10cm2 (poor)	0.9 %				
PET	1.1 %								
PVC	0.4 %								
Others (Packaging)	<0.1 %								

Packaging (alone) : 0.62 kg							
Cardboard (packaging) 17 %							
	Wood (packaging)	13.1 %					
	Paper (packaging)	0.6 %					

Total plastics : 1.2 kg 62.7 % Total metals : 0.03 kg	1.8%	Total others : 0.72 kg	35.5 %	
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At the date of edition of this document, the content of recycled material(s) is:

- Product alone (excluding packaging): 0 %
- Packaging only: 0 %



■ MANUFACTURE ■

This Reference Product comes from sites that have received ISO14001 certification. The final assembly site is located at Prestons, Australia.



■ 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 114 km by rail, 265 km by sea and 599 km by road from our warehouse to the local point of distribution into the market in Australia and New-Zealand.

Packaging is compliant with with Australian Consumer.Law and other applicable regulation. At the packaging's end of life, it's recyclability rate is 41% (by % weight of packaging)



INSTALLATION I

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



USF

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



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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.

• Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 75%. 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): 2%
- metal materials (excluding packaging): 59%
- other materials (excluding packaging): 1%
- packaging (all types of materials): 13%



■ 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 of products marketed and used in France in an electrical installation in compliance with NF C 15100 and associated product standards.

The datasets collected in this PEP are representative of the year 2024.

For each phase, the following modelling elements were taken in account:

	Manufacture A1-A3	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.						
±	Distribution A4 Transport between the last Group distribution centre and an average delivery point in the sales area.							
em Limit	Installation A5	The end of life of the packaging.						
System	Use B1-B7	 Product category: PSR-0007-ed2.1-2023 12 08. Use scenario: for a 10 years working life in continuous operation at 100% of rated load (1W at 230 V) during 100% of the time. This modeling time does not constitute a requirement for minimal durability Energy model: Electricity Mix_Low voltage_2018_Australia_AU 2018 						
	End of life C1-C4	· The default end of life scenario maximizing the impacts.						
D Mo	odule	Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario. It expresses the net benefits and burdens beyond the boundaries of the system, and are not to be included in the life cycle totals.						
	vare and data- used	The set of indicators used is Indicators for PEF EF 3.0 (compliant: PEP ed.4, EN15804+A2) v2.0 EIME V6 & its database 2024-01-24						

Unless otherwise indicated the modelling energetic mix are those integrated in the data modules used from the aformentioned database.



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■ ENVIRONMENTAL IMPACTS

	Total Life Cycle					Installation				Use ⁽¹⁾	End of Life			
			A1-A3	3	A4		A5		Total B1-	B7	B2	В6	C1-C	4
Climate change - total	2.61E+02	kg CO ₂ eq.	1.77E+01	100%	6.80E-02	100%	2.58E-01	100%	2.43E+02	100%	0,00E+00	2.43E+02	6.51E-01	100%
Climate change - fossil fuels	2.61E+02	kg CO ₂ eq.	1.73E+01	100%	6.80E-02	100%	2.58E-01	100%	2.43E+02	100%	0,00E+00	2.43E+02	6.48E-01	100%
Climate change - biogenics	4.70E-01	kg CO ₂ eq.	3.47E-01	100%	0.00E+00	100%	3.87E-04	100%	1.18E-01	100%	0,00E+00	1.18E-01	3.92E-03	100%
Climate change - land use and land use transformation	1.60E-03	kg CO ₂ eq.	1.60E-03	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	0,00E+00	1.68E-07	100%
Ozone depletion	3.98E-06	kg CFC-11 eq.	2.75E-06	100%	1.01E-10	100%	7.97E-09	100%	1.18E-06	100%	0,00E+00	1.18E-06	4.14E-08	100%
Acidification (AP)	1.71E+00	mole of H+ eq.	1.13E-01	100%	6.82E-04	100%	1.54E-03	100%	1.59E+00	100%	0,00E+00	1.59E+00	4.86E-03	100%
Freshwater eutrophication	9.88E-04	kg P eq.	8.90E-04	100%	2.50E-08	100%	1.92E-07	100%	1.72E-06	100%	0,00E+00	1.72E-06	9.60E-05	100%
Marine aquatic eutrophication	1.96E-01	kg of N eq.	1.79E-02	100%	2.56E-04	100%	4.11E-04	100%	1.76E-01	100%	0,00E+00	1.76E+01	1.21E-03	100%
Terrestrial eutrophication	2.20E+00	mole of N eq.	1.77E-03	100%	2.81E-03	100%	5.23E-03	100%	2.00E+00	100%	0,00E+00	2,00E+00	1.54E-02	100%
Photochemical ozone formation	6.50E-01	kg NMVOC eq.	5.60E-02	100%	7.18E-04	100%	1.16E-03	100%	5.89E-01	100%	0,00E+00	5.89E-01	3.45E-03	100%
Depletion of abiotic resources - elements	1.18E-03	kg Sb eq.	1.17E-03	100%	2.62E-09	100%	1.75E-08	100%	3.75E-06	100%	0,00E+00	3.75E-06	3.08E-06	100%
Depletion of abiotic resources - fossil fuels	4.07E+03	МЛ	3.02E+02	100%	9.29E-01	100%	4.65E+00	100%	3.75E+03	100%	0,00E+00	3.75E+03	1.26E+01	100%
Water requirement	3.68E+01	m³ deprivation worldwide eq.	2.70E+01	100%	2.52E-04	100%	9.66E-03	100%	9.61E+00	100%	0,00E+00	9.61E+00	1.50E-01	100%
Emission of fine particles	9.45E-06	incidence of diseases	6.78E-07	100%	4.65E-09	100%	1.09E-08	100%	8.73E-06	100%	0,00E+00	8.73E-06	3.29E-08	100%

^{*}represents less than 0.01% of the total life cycle of the reference flow

PEP ecopassport n° LGRP-01947-V01.01-EN

Module D

-4.16E-01
-4.12E-01
-3.87E+03
0,00E+00
-4.60E-08
-5.68E-03
-2.55E-06
-3.76E-04
-4.15E-03
-1.45E-03
-1.08E-03
-8.29E+00
-3.27E-01

-4.01E-08

⁽¹⁾ For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table. In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column



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	Total I	_ife Cycle	Manufacturing A1-A3		Distribution A4		Installation A5		Total B1-B7		Use ⁽¹⁾	В6	End of I	
Ionizing radiation, human health	9.25E+01	kBq of U235	9.10E+01	100%		100%		100%	10101 = 1	100%		1.25E+00	2.19E-01	100%
Ecotoxicity (fresh water)	4.19E+03	CTUe	3.31E+02	100%	4.49E-02	100%	3.71E+00	100%	3.84E+03	100%	0,00E+00	3.84E+03	2.09E+01	100%
Human toxicity, carcinogenic effects	9.02E-07	CTUh	8.72E-07	100%	1.15E-12	100%	4.10E-11	100%	2.97E-08	100%	0,00E+00	2.97E-08	4.47E-10	100%
Human toxicity, non-carcinogenic effects	1.98E-06	CTUh	4.62E-07	100%	1.59E-10	100%	2.33E-09	100%	1.50E-06	100%	0,00E+00	1.50E-06	1.77E-08	100%
Impacts related to land use/soil quality	7.66E+00	-	5.52E+00	100%	0,00E+00	100%	4.47E-03	100%	1.66E+00	100%	0,00E+00	1.66E+00	4.79E-01	100%
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	2.96E+02	MJ	1.15E+01	100%	1.23E-03	100%	3.23E-01	100%	2.83E+02	100%	0,00E+00	2.83E+02	7.09E-01	100%
Use of renewable primary energy resources used as raw materials	1.27E+01	MJ	1.27E+01	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	0,00E+00	0,00E+00	100%
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	3.08E+02	МЈ	2.42E+01	100%	1.23E-03	100%	3.23E-01	100%	2.83E+02	100%	0,00E+00	2.83E+02	7.09E-01	100%
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	4.02E+03	MJ	2.57E+02	100%	9.29E-01	100%	4.65E+00	100%	3.75E+03	100%	0,00E+00	3.75E+03	1.26E+01	100%
Use of non-renewable primary energy resources used as raw materials	4.52E+01	MJ	4.52E+01	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	0,00E+00	0,00E+00	100%
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	4.07E+03	MJ	3.02E+00	100%	9.29E-01	100%	4.65E+00	100%	3.75E+03	100%	0,00E+00	3.75E+03	1.26E+01	100%

Module D -5.18E+00 -1.03E+01 -3.73E-07 -1.23E-07 0,00E+00 -2.24E-01 0,00E+00 -2,24E-01 -7.38E+00 -9.13E-01 -8.29E+00

PEP ecopassport n° LGRP-01947-V01.01-EN

^{*}represents less than 0.01% of the total life cycle of the reference flow

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	Total Life Cycle		Manufacturing		Distribution		Installation		Table		Use ⁽¹⁾			Life
			A1-A3	5	A4		A5		Total B1-	В/	B2	B6	C1-C	4
Use of secondary materials	1.26E-04	kg	1.24E-04	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	0.00E+00	0,00E+00	100%
Use of renewable secondary fuels	0,00E+00	МЈ	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	0,00E+00	0,00E+00	100%
Use of non-renewable secondary fuels	0,00E+00	МЈ	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	0,00E+00	0,00E+00	100%
Net use of fresh water	8.76E-01	m³	6.49E-01	100%	5.86E-06	100%	3.71E-04	100%	2.24E-01	100%	0,00E+00	2.24E-01	3.77E-03	100%
Hazardous waste disposed of	4.45E+01	kg	3.63E+01	100%	0,00E+00	100%	2.32E-01	100%	6.19E+00	100%	0,00E+00	6.19E+00	1.75E+00	100%
Non-hazardous waste disposed of	4.98E+01	kg	1.06E+01	100%	2.33E-03	100%	3.40E-02	100%	3.90E+01	100%	0,00E+00	3.90E+01	5.79E-05	100%
Radioactive waste disposed of	1.10E-02	kg	7.12E-03	100%	1.65E-06	100%	1.44E-05	100%	3.84E-03	100%	0,00E+00	3.84E-03	0,00E+00	100%
Components for re-use	0,00E+00	kg	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	0,00E+00	4.47E-02	100%
Materials for recycling	5.83E-02	kg	1.36E-02	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	0,00E+00	0,00E+00	100%
Materials for energy recovery	0,00E+00	MJ by energy vector	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	0,00E+00	0,00E+00	100%
Exported energy	0,00E+00	MJ	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	0,00E+00	0,00E+00	100%
Total use of primary energy during the life cycle	4.83E+03	МЈ	3.26E+02	100%	9.30E-01	100%	4.97E+00	100%	4.03E+03	100%	0,00E+00	4.03E+03	1.33E+01	100%
Biogenic carbon content of the product	0,00E+00	kg of C	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	0,00E+00	0,00E+00	100%
Biogenic carbon content of the associated packaging	1.99E-01	kg of C	1.99E-01	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	100%	0,00E+00	0,00E+00	0,00E+00	100%

Module D

0,00E+00

0,00E+00

-7.61E-03

-1.81E+01

-1.76E-01

-1.24E-04

0,00E+00

0,00E+00

0,00E+00

0,00E+00

0,00E+00

For products covered by the PEP other than the Reference product, the environmental impacts of each phase of the lifecycle are calculated with <extrapolation rules>

PEP ecopassport no LGRP-01947-V01.01-EN-AU

^{*}Represents less than 0.01% of the total life cycle of the reference flow

⁽¹⁾ For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table. In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column. The values of the indicators defined in the PCR-ed4-EN-2021 09 06 are available in the digital database of pep-ecopassport.org website.



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	Coefficient of extrapolation of environnemental indicators									
Associated references		Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life			
659000LI	G2 LED EXIT WHT LI GAL	1.0	1.0	1.0	1.0	1.0	1.0			
659001LI	G2 LED EXIT BLK LI GAL	1.0	1.0	1.0	1.0	1.0	1.0			
659002LI	G2 LED EXIT SIL LI GAL	1.0	1.0	1.0	1.0	1.0	1.0			
686200/LI	G2 EXIT 2W LED WHITE RM LI	1.0	1.0	1.0	1.0	1.0	1.0			
686203/LI	AX G2 LED 2W LED WHITE RM LI	1.0	1.0	1.0	1.0	1.0	1.0			
686206/LI	G2 EXIT 2W LED BLK RM LI	1.0	1.0	1.0	1.0	1.0	1.0			
686207/LI	AX G2 EX 1X2W LED BL RM LI	1.0	1.0	1.0	1.0	1.0	1.0			
686208/LI	G2 EXIT 2W LED SILVER RM LI	1.0	1.0	1.0	1.0	1.0	1.0			
686211/LI	AX G2 EX 1X2W LED SIL RM LI	1.0	1.0	1.0	1.0	1.0	1.0			

Registration number: LGRP-01947-V01.01-EN	Drafting rules: «PEP-PCR-ed4-2021 09 06 Supplemented by «PSR-0007-ed2.1-2023 12 08				
Verifier accreditation N°: VH08	information and reference documents: www.pep-ecopassport.org				
Date of issue: 07-2024	Validity period: 5 years				
Independent verification of the declaration and data, in complian	nce with ISO 14025 : 2006				
Internal ⊠ External □	PEP				
The PCR review was conducted by a panel of experts chaired by Ju					
PEP are compliant with NF C08-100-1:2016 and EN 50693:2019 or The elements of the present PEP cannot be compared with elemen	NF E38-500 :2022 PASS				
Document in compliance with ISO 14025 : 2006: «Environmental lab Type III environmental declarations»					

Environmental data in alignment with EN 15804: 2012 + A2 : 2019