Legrand Electric Limited
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Product Environmental Profile

SALAMANDRE trunking system - pre-galvanised finish - Standard and IP4X ranges

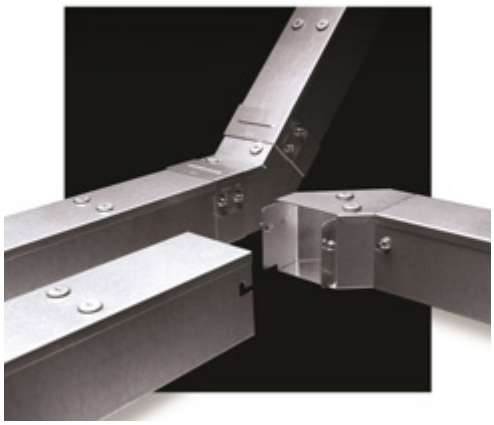
LEGRAND'S ENVIRONMENTAL COMMITMENTS

▪ **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	Accommodate and protect the wiring along 1 metre for a Reference Service Life of the product of 20 years. The SALAMANDRE Standard MGR44 system with cross-section 4252 mm² includes the profile and accessories that are representative of standard use.
Reference Product	
	Cat.Nos MGR44 - MGR44CSL - MGR44ASL - MGR44E
	SALAMANDRE distribution trunking system 100 x 100mm Standard - pre-galvanised finish.

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:
the full SALAMANDRE distribution trunking system, as presented in all relevant catalogues (50x50 to 300x300 Standard IP30 and IP4X) - details available on request from customer service team.

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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.

Total weight of Reference Product	**3.45 kg** (all packaging included)

Product alone weight 3.41 kg					
Plastics as % of weight		**Metals as % of weight**		**Other as % of weight**	
		Steel	**97.9 %**		
		Zamak	**1.0 %**		

Packaging (alone) : 0.04 kg					
				Wood	**0.8 %**
				Paper	**0.3 %**
				Cardboard	**<0.1 %**

Total plastics : 0.00 kg	**0.0 %**	**Total metals : 3.41 kg**	**98.9 %**	**Total others : 0.04 kg**	**1.1 %**

At the date of edition of this document, the content of recycled material(s) is :

- Product alone (excluding packaging): 74% by mass
- Packaging only: 25% by mass

MANUFACTURE

The Reference Product comes from sites that, in their majority, have received ISO14001 certification.
The final assembly site is located at Scarborough (UK).

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 217 km by road from our warehouse to the local point of distribution into the market in United Kingdom.

Packaging is compliant with applicable regulation.

INSTALLATION

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

USE

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.

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 United Kingdom.
The datasets collected in this PEP are representative of the year 2025.

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

System Limit	**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.
	Installation A5	The end of life of the packaging.
	Use B1-B7	▪ Product category: PSR-0003-ed2.1-EN-2023 12 08 - 3.2.1.1.2. Distribution cable trunking systems, floor trunking systems and conduit systems. ▪ Use scenario: no energy consumption during the 20 years working life. This modelling duration does not constitute a minimum durabilty requirement. ▪ Energy model: Electricity Mix_Low voltage_2020_United Kingdom_UK - 2020.
	End of life C1-C4	Choice of end-of-life by default model for PCR-ed4-EN-2021 09 06
D Module		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.
Software and database used		The set of indicators used is Indicators for PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v2.0 EIME V6 & its database 2025-04-15

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

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PEP ecopassport®

ENVIRONMENTAL IMPACTS

	Total Life Cycle		Manufacturing	Distribution	Installation	Use[1]			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Climate change - total	**1.22E+01**	**kg CO_2 eq.**	7.33E+00	2.98E-02	3.24E+00	0.00E+00	0.00E+00	0.00E+00	1.62E+00	-7.74E-01
Climate change - fossil fuels	**1.22E+01**	**kg CO_2 eq.**	7.32E+00	2.98E-02	3.25E+00	0.00E+00	0.00E+00	0.00E+00	1.60E+00	-7.58E-01
Climate change - biogenics	**1.57E-02**	**kg CO_2 eq.**	1.13E-02	0*	-1.02E-02	0.00E+00	0.00E+00	0.00E+00	1.46E-02	-1.61E-02
Climate change - land use and land use transformation	**1.53E-06**	**kg CO_2 eq.**	8.28E-07	4.32E-08	6.16E-07	0.00E+00	0.00E+00	0.00E+00	4.39E-08	0.00E+00
Ozone depletion	**3.92E-07**	**kg CFC-11 eq.**	1.66E-07	3.41E-10	4.88E-08	0.00E+00	0.00E+00	0.00E+00	1.77E-07	1.43E-09
Acidification (AP)	**4.31E-02**	**mole of H+ eq.**	2.99E-02	4.72E-05	1.18E-03	0.00E+00	0.00E+00	0.00E+00	1.20E-02	-2.49E-03
Freshwater eutrophication	**1.88E-05**	**kg P eq.**	1.02E-05	1.10E-07	5.80E-06	0.00E+00	0.00E+00	0.00E+00	2.73E-06	-7.51E-08
Marine aquatic eutrophication	**7.74E-03**	**kg of N eq.**	4.36E-03	9.04E-06	3.78E-04	0.00E+00	0.00E+00	0.00E+00	2.99E-03	-4.41E-04
Terrestrial eutrophication	**9.83E-02**	**mole of N eq.**	5.49E-02	9.92E-05	3.46E-03	0.00E+00	0.00E+00	0.00E+00	3.98E-02	-4.79E-03
Photochemical ozone formation	**2.65E-02**	**kg NMVOC eq.**	1.62E-02	3.17E-05	1.75E-03	0.00E+00	0.00E+00	0.00E+00	8.48E-03	-1.76E-03
Depletion of abiotic resources - elements	**6.16E-05**	**kg Sb eq.**	6.13E-05	9.54E-09	1.42E-07	0.00E+00	0.00E+00	0.00E+00	2.34E-07	-1.60E-05
Depletion of abiotic resources - fossil fuels	**3.20E+02**	**MJ**	2.82E+02	5.21E-01	8.51E+00	0.00E+00	0.00E+00	0.00E+00	2.92E+01	-5.82E+01
Water requirement	**3.72E+00**	**m^3 deprivation worldwide eq.**	3.38E+00	1.06E-03	1.20E-01	0.00E+00	0.00E+00	0.00E+00	2.24E-01	-3.41E-01
Emission of fine particles	**2.72E-07**	**incidence of diseases**	1.84E-07	4.15E-10	7.75E-09	0.00E+00	0.00E+00	0.00E+00	8.02E-08	-1.62E-08

*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

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	Total Life Cycle		Manufacturing	Distribution	Installation	Use[1]			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Ionizing radiation, human health	**2.30E+00**	**kBq of U235 eq.**	1.66E+00	9.93E-04	6.96E-02	0.00E+00	0.00E+00	0.00E+00	5.63E-01	-8.49E-03
Ecotoxicity (fresh water)	**1.08E+02**	**CTUe**	3.75E+01	8.17E-01	1.25E+01	0.00E+00	0.00E+00	0.00E+00	5.74E+01	-2.64E-01
Human toxicity, carcinogenic effects	**1.64E-08**	**CTUh**	1.37E-08	5.49E-12	2.09E-09	0.00E+00	0.00E+00	0.00E+00	5.71E-10	-9.64E-11
Human toxicity, non-carcinogenic effects	**3.22E-07**	**CTUh**	2.92E-07	1.16E-10	5.68E-09	0.00E+00	0.00E+00	0.00E+00	2.38E-08	-9.18E-09
Impacts related to land use/soil quality	**1.35E-01**	**-**	6.67E-02	1.22E-04	3.42E-03	0.00E+00	0.00E+00	0.00E+00	6.50E-02	0.00E+00
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	**1.28E+01**	**MJ**	1.05E+01	1.60E-03	2.36E-02	0.00E+00	0.00E+00	0.00E+00	2.26E+00	-3.70E-01
Use of renewable primary energy resources used as raw materials	**3.63E+00**	**MJ**	3.44E+00	0.00E+00	1.86E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-01
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	**1.64E+01**	**MJ**	1.39E+01	0*	2.10E-01	0.00E+00	0.00E+00	0.00E+00	2.26E+00	-2.09E-01
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	**3.19E+02**	**MJ**	2.81E+02	5.21E-01	8.51E+00	0.00E+00	0.00E+00	0.00E+00	2.92E+01	-5.82E+01
Use of non-renewable primary energy resources used as raw materials	**8.12E-01**	**MJ**	8.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	**3.20E+02**	**MJ**	2.82E+02	5.21E-01	8.51E+00	0.00E+00	0.00E+00	0.00E+00	2.92E+01	-5.82E+01

*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
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	Total Life Cycle		Manufacturing	Distribution	Installation	Use[1]			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Use of secondary materials	**3.34E+00**	**kg**	3.34E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	**0.00E+00**	**MJ**	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	**0.00E+00**	**MJ**	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	**8.61E-02**	**m³**	8.01E-02	2.47E-05	7.87E-04	0.00E+00	0.00E+00	0.00E+00	5.18E-03	-7.94E-03
Hazardous waste disposed of	**3.56E+00**	**kg**	5.49E-01	0*	4.45E-03	0.00E+00	0.00E+00	0.00E+00	3.01E+00	-1.00E-01
Non-hazardous waste disposed of	**2.03E+00**	**kg**	1.74E+00	2.65E-03	4.95E-02	0.00E+00	0.00E+00	0.00E+00	2.39E-01	-1.74E-01
Radioactive waste disposed of	**3.32E-04**	**kg**	1.85E-04	2.10E-06	4.39E-05	0.00E+00	0.00E+00	0.00E+00	1.01E-04	-1.50E-05
Components for re-use	**0.00E+00**	**kg**	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	**8.72E-01**	**kg**	8.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	**0.00E+00**	**MJ by energy vector**	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	**0.00E+00**	**MJ**	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of primary energy during the life cycle	**3.36E+02**	**MJ**	2.96E+02	5.23E-01	8.72E+00	0.00E+00	0.00E+00	0.00E+00	3.15E+01	-5.84E+01

Biogenic carbon content of the product	**0.00E+00**	**kg of C**	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the associated packaging	**8.41E-02**	**kg of C**	7.97E-02	0.00E+00	4.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-03

*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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PEP ecopassport®

ENVIRONMENTAL IMPACTS

The environmental impact of the system, described in this document and different of the Reference Product, can be estimated by weighting the environmental impacts of the Reference Product by the corresponding factors (see below)

IP 30 range - single compartment

Designation	Correction factor to apply to each indicators, for each life cycle steps or to the total life cycle
50X50 STANDARD IP 30	0,45
75X50 STANDARD IP 30	0,66
75X75 STANDARD IP 30	0,76
100X50 STANDARD IP 30	0,76
100X75 STANDARD IP 30	0,88
100X100 STANDARD IP 30	***1,00***
150X50 STANDARD IP 30	1,00
150X75 STANDARD IP 30	1,12
150X100 STANDARD IP 30	1,22
150X150 STANDARD IP 30	1,81
225X75 STANDARD IP 30	1,47
225X100 STANDARD IP 30	1,90
225X150 STANDARD IP 30	2,21
225X225 STANDARD IP 30	2,65
300X75 STANDARD IP 30	2,17
300X100 STANDARD IP 30	2,32
300X150 STANDARD IP 30	2,61
300X300 STANDARD IP 30	3,48

IP 30 range - 2 compartments

Designation	Correction factor to apply to each indicators, for each life cycle steps or to the total life cycle
50X50 STANDARD IP 30	0,55
75X50 STANDARD IP 30	0,76
75X75 STANDARD IP 30	0,88
100X50 STANDARD IP 30	0,86
100X75 STANDARD IP 30	1,00
100X100 STANDARD IP 30	1,17
150X50 STANDARD IP 30	1,10
150X75 STANDARD IP 30	1,24
150X100 STANDARD IP 30	1,39
150X150 STANDARD IP 30	2,05
225X75 STANDARD IP 30	1,60
225X100 STANDARD IP 30	2,07
225X150 STANDARD IP 30	2,46
225X225 STANDARD IP 30	3,02
300X75 STANDARD IP 30	2,30
300X100 STANDARD IP 30	2,50
300X150 STANDARD IP 30	2,87
300X300 STANDARD IP 30	3,97

IP 30 range - 3 compartments

Designation	Correction factor to apply to each indicators, for each life cycle steps or to the total life cycle
75X50 STANDARD IP 30	0,86
75X75 STANDARD IP 30	1,00
100X50 STANDARD IP 30	0,95
100X75 STANDARD IP 30	1,12
100X100 STANDARD IP 30	1,33
150X50 STANDARD IP 30	1,20
150X75 STANDARD IP 30	1,37
150X100 STANDARD IP 30	1,56
150X150 STANDARD IP 30	2,29
225X75 STANDARD IP 30	1,72
225X100 STANDARD IP 30	2,25
225X150 STANDARD IP 30	2,71
225X225 STANDARD IP 30	3,39
300X75 STANDARD IP 30	2,43
300X100 STANDARD IP 30	2,68
300X150 STANDARD IP 30	3,12
300X300 STANDARD IP 30	4,46

IP 4X range - single compartment

Designation	Correction factor to apply to each indicators, for each life cycle steps or to the total life cycle
50X50 STANDARD IP 4X	0,46
75X50 STANDARD IP 4X	0,67
75X75 STANDARD IP 4X	0,77
100X50 STANDARD IP 4X	0,77
100X75 STANDARD IP 4X	0,89
100X100 STANDARD IP 4X	1,01
150X50 STANDARD IP 4X	1,01
150X75 STANDARD IP 4X	1,13
150X100 STANDARD IP 4X	1,23
150X150 STANDARD IP 4X	1,82
225X75 STANDARD IP 4X	1,48
225X100 STANDARD IP 4X	1,91
225X150 STANDARD IP 4X	2,22
225X225 STANDARD IP 4X	2,67
300X75 STANDARD IP 4X	2,18
300X100 STANDARD IP 4X	2,33
300X150 STANDARD IP 4X	2,63
300X300 STANDARD IP 4X	3,49

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IP 4X range - 2 compartments

Designation	Correction factor to apply to each indicators, for each life cycle steps or to the total life cycle
50X50 STANDARD IP 4X	0,55
75X50 STANDARD IP 4X	0,76
75X75 STANDARD IP 4X	0,89
100X50 STANDARD IP 4X	0,86
100X75 STANDARD IP 4X	1,01
100X100 STANDARD IP 4X	1,17
150X50 STANDARD IP 4X	1,11
150X75 STANDARD IP 4X	1,25
150X100 STANDARD IP 4X	1,40
150X150 STANDARD IP 4X	2,06
225X75 STANDARD IP 4X	1,61
225X100 STANDARD IP 4X	2,08
225X150 STANDARD IP 4X	2,47
225X225 STANDARD IP 4X	3,03
300X75 STANDARD IP 4X	2,32
300X100 STANDARD IP 4X	2,51
300X150 STANDARD IP 4X	2,88
300X300 STANDARD IP 4X	3,98

IP 4X range - 3 compartments

Designation	Correction factor to apply to each indicators, for each life cycle steps or to the total life cycle
75X50 STANDARD IP 4X	0,86
75X75 STANDARD IP 4X	1,01
100X50 STANDARD IP 4X	0,96
100X75 STANDARD IP 4X	1,13
100X100 STANDARD IP 4X	1,34
150X50 STANDARD IP 4X	1,21
150X75 STANDARD IP 4X	1,37
150X100 STANDARD IP 4X	1,57
150X150 STANDARD IP 4X	2,30
225X75 STANDARD IP 4X	1,73
225X100 STANDARD IP 4X	2,26
225X150 STANDARD IP 4X	2,72
225X225 STANDARD IP 4X	3,40
300X75 STANDARD IP 4X	2,45
300X100 STANDARD IP 4X	2,70
300X150 STANDARD IP 4X	3,14
300X300 STANDARD IP 4X	4,48

Registration number: **LGRP-00994-V02.01-EN**	Drafting rules: **«PEP-PCR-ed4-EN-2021 09 06» Supplemented by «PSR-0003-ed2.1-2023 12 08»**
Verifier accreditation N°: **VH23**	Information and reference documents: **www.pep-ecopassport.org**
Date of issue: **06-2025**	Validity period: **5 years**
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006	
Internal ☒ **External** ☐	
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)	
PEP are compliant with NF C08-100-1 :2016 and EN 50693 :2019 or NF E38-500 :2022 The elements of the present PEP cannot be compared with elements from another program	
Document in compliance with ISO 14025 : 2006: «Environmental labels and declarations. Type III environmental declarations»	

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