legrand 611710 Trunking System HF

legrand 611710 Trunking System HF User Guide

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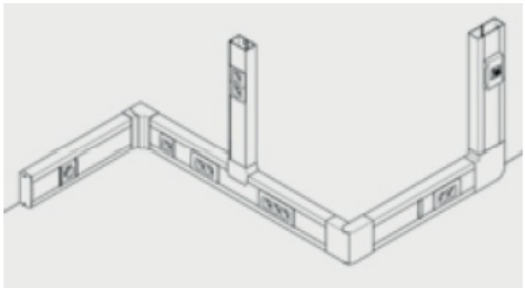
LEGRAND'S ENVIRONMENTAL COMMITMENTS

- 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 information 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 and wiring accessories along 1 metre for a Reference Service Life of the product of 20 years. The 100x50 trunking HF system with cross-section 2244 mm² includes the profile and accessories that are representative of standard use..	
Reference Product		
	Cat.Nos 611710 - 638031 - 638033 - 611753 - 611796 - 611743 - 611797 - 611798	
	Installation trunking HF 100x50 system.	

PRODUCTS CONCERNED

The environmental data is representative of the following products:

Catalogue Numbers

- the full Installation trunking system HF with performances specific to fire: “Low-Fire Hazard” as presented in all relevant catalogs -details available on request from the customer service team.

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

Total weight of Reference Product

- 1.01 kg (all packaging included)

Product alone weight 0.82 kg					
Plastics as % of weight		**Metals as % of weight**		**Other as % of weight**	
PC	**49.2 %**	Steel	**<0,1 %**		
ABS	**31.6 %**				

Packaging (alone) : 0.19 kg					
PP	**0.8 %**			Wood	**9.1 %**
PE	**0.1 %**			Cardboard	**8.6 %**
PVC	**0.3 %**			Paper	**0.3 %**

Total plastics: **0.82 kg**	**82.0 %**	**Total** metals: **0.0 kg**	**0.0 %**	**Total others: 0.19 kg**	**18.0 %**

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

- Product alone (excluding packaging): 41% by mass
- Packaging only: 0% by mass

MANUFACTURE

- The Reference Product comes from sites that, in their majority, have received ISO14001 certification.

DISTRIBUTION

Products are distributed from logistics centers located to optimize transport efficiency. The Reference Product is therefore transported over an average distance of 1325 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.

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.

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 from products marketed and used in Europe,in compliance with the local current standards. For each phase, the following modeling 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 center 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-EN-2023 06 06, 3.2.1.1.1. Installation of trunking systems. • Use scenario: no energy consumption during the 20-year working life. This modeling duration does not constitute a minimum durability requirement. • Energy model: Electricity Mix_Low voltage_2018_Europe_EU-27 – 2018.
	End of life C1-C4	The default end-of-life scenario maximizes the impacts.
D Module		Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modeled 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 data- base used		EIME V6 & its database CODDE-2023-02

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

Total Life Cycle			Manufacturing	Distribution	Installation	Use(1)			End of Life
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4
Climate change – total	**7.88E+00**	**kg CO_2 eq.**	4.90E+00	6.73E-02	3.59E-01	0	0	0	2.55E+00
Climate change – fossil fuels	**7.43E+00**	**kg CO_2 eq.**	4.69E+00	6.73E-02	1.21E-01	0	0	0	2.55E+00
Climate change – biogenics	**4.50E-01**	**kg CO_2 eq.**	2.11E-01	0*	2.39E-01	0	0	0	0*
Climate change – land use and land use transformation	**7.53E-04**	**kg CO_2 eq.**	7.53E-04	0*	0*	0	0	0	0*
Ozone depletion	**3.03E-07**	**kg CFC-11 eq.**	2.80E-07	1.03E-10	3.35E-10	0	0	0	2.25E-08
Acidification (AP)	**1.82E-02**	**mole of H+ eq.**	1.66E-02	4.26E-04	1.32E-04	0	0	0	1.13E-03
Freshwater eutrophication	**1.57E-05**	**kg P eq.**	1.56E-05	2.52E-08	6.31E-09	0	0	0	3.28E-08
Marine aquatic eutrophication	**3.43E-03**	**kg of N eq.**	2.92E-03	1.99E-04	5.28E-05	0	0	0	2.57E-04
Terrestrial eutrophication	**3.76E-02**	**mole of N eq.**	3.12E-02	2.19E-03	6.58E-04	0	0	0	3.47E-03
Photochemical ozone formation	**1.26E-02**	**kg NMVOC eq.**	1.11E-02	5.52E-04	1.43E-04	0	0	0	7.90E-04
Depletion of abiotic resources – elements	**2.25E-06**	**kg Sb eq.**	2.28E-06	2.64E-09	-3.77E-08	0	0	0	1.56E-09
Depletion of abiotic resources – fossil fuels	**1.08E+02**	**MJ**	1.04E+02	9.37E-01	2.45E-01	0	0	0	2.65E+00
Water requirement	**8.30E+00**	**m3 deprivation worldwide eq.**	8.02E+00	0*	3.96E-02	0	0	0	2.38E-01
Emission of fine particles	**1.13E-07**	**incidence of diseases**	1.01E-07	3.46E-09	8.08E-10	0	0	0	7.91E-09

Module D

-2.11E-01
-2.06E-01
-4.75E-03
0.00E+00
-5.51E-12
-5.96E-04
-7.38E-07
-1.57E-04
-1.59E-03
-4.83E-04
-2.80E-08
-5.40E+00
-6.12E-02
-3.71E-09

- 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 the 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

Total Life Cycle			**Manufacturing**	**Distribution**	**Installation**	**Use(1)**			**End of Life**
			A1-A3	**A4**	**A5**	**Total B1-B7**	**B2**	**B6**	**C1-C4**
Ionizing radiation. human health	**1.85 E+01**	**kBq of U235 eq.**	1.84E+01	0*	0*	0	0	0	2.54E-02
Ecotoxicity (fresh water)	**1.45 E+02**	**CTUe**	1.44E+02	4.53E-02	1.44E-01	0	0	0	1.15E+00
Human toxicity. carcinogenic effects	**1.38 E-08**	**CTUh**	1.38E-08	0*	2.66E-12	0	0	0	3.26E-11
Human toxicity. non-carcinogenic effects	**5.13 E-08**	**CTUh**	4.91E-08	1.28E-10	2.30E-10	0	0	0	1.89E-09

Impacts related to land use/soil quality	**2.12 E+00**	**–**	2.12E+00	0*	0*	0	0	0	0*
Use of renewable primary energy. excluding renewable primary energy resources used as raw materials	**4.26 E+00**	**MJ**	4.21E+00	1.25E-03	-4.00E-03	0	0	0	5.31E-02
Use of renewable primary energy resources used as raw materials	**2.79 E+00**	**MJ**	2.79E+00	0*	0*	0	0	0	0*
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	**7.05 E+00**	**MJ**	7.00E+00	1.25E-03	-4.00E-03	0	0	0	5.31E-02
Use of non-renewable primary energy. excluding non-renewable primary energy resources used as raw materials	**7.59 E+01**	**MJ**	7.20E+01	9.37E-01	2.45E-01	0	0	0	2.65E+00
Use of non-renewable primary energy resources used as raw materials	**3.18 E+01**	**MJ**	3.18E+01	0*	0*	0	0	0	0*
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	**1.08 E+02**	**MJ**	1.04E+02	9.37E-01	2.45E-01	0	0	0	2.65E+00

Module D

-4.77E-02
-4.93E+00
-4.85E-12
-1.87E-09
9.36E-07
-1.03E-01
1.38E-03
-1.02E-01
-2.85E+00
-2.55E+00
-5.40E+00

- 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

Total Life Cycle			Manufacturing	Distribution	Installation	Use(1)			End of Life
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4
Use of secondary materials	7,92E-02	kg	7,92E-02	0*	0*	0	0	0	0*
Use of renewable secondary fuels	0,00E+00	MJ	0*	0*	0*	0	0	0	0*
Use of non-renewable secondary fuels	0,00E+00	MJ	0*	0*	0*	0	0	0	0*
Net use of fresh water	2,02E-01	m3	1,96E-01	0*	9,22E-04	0	0	0	5,54E-03
Hazardous waste disposed of	9,09E-01	kg	8,94E-02	0*	-2,35E-04	0	0	0	8,20E-01
Non-hazardous waste disposed of	3,47E+00	kg	2,31E+00	2,36E-03	2,30E-01	0	0	0	9,23E-01
Radioactive waste disposed of	1,38E-03	kg	1,25E-03	1,68E-06	5,42E-06	0	0	0	1,17E-04
Components for re-use	0,00E+00	kg	0*	0*	0*	0	0	0	0*
Materials for recycling	7,17E-02	kg	7,73E-03	0*	0*	0	0	0	6,40E-02
Materials for energy recovery	0,00E+00	MJ by energy vector	0*	0*	0*	0	0	0	0*
Exported energy	0,00E+00	MJ	0*	0*	0*	0	0	0	0*
Total use of primary energy during the life cycle	1,15E+02	MJ	1,11E+02	9,39E-01	2,41E-01	0	0	0	2,71E+00
Biogenic carbon content of the product	0,00E+00	kg of C	0*	0*	0*	0	0	0	0*
Biogenic carbon content of the associated packaging	6,15E-02	kg of C	0*	0*	0*	0	0	0	0*

Module D

0,00E+00
0,00E+00
0,00E+00
-1,42E-03
-2,29E-04
-8,31E-02
-5,47E-05
0,00E+00
0,00E+00
0,00E+00
0,00E+00
-5,51E+00
0,00E+00
0,00E+00

- 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. For all products concerned (see § «products concerned»), take these impacts values.

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.

Designation	Correction factor to apply to each indicator. for each life cycle step or to the total life cycle
Mini trunking system 25×25	0.21
Mini trunking system 25×40	0.31
Mini trunking system 40×60	0.57
Trunking system 50×85 (1 compar tment)	0.94
Trunking system 50×100 (1 com partment)	1.00
Trunking system 50×130 (1 comp artment)	1.39
Trunking system 50×190 (2 comp artments)	2.10

Registration number: **LGRP-01662-V01.0 1-EN**	Drafting rules: **«PEP-PCR-ed4-2021 09 06»** **Supplemented by «PSR-0003-ed2-2023 06 06»**
Verifier accreditation N° : **VH08**	Information and reference documents: **www.pep-ecopassport.org**
Date of issue: **11/2023**	Validity period: **5 years**
Independent verification of the declaration and data, in compliance with ISO 14025: **200 6**	
Internal **External**	
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)	
PEP are compliant with XP C08-100-1 :2016 or EN 50693 :2019 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. Typ e III environmental declarations»	

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

Documents / Resources

	legrand 611710 Trunking System HF [pdf] User Guide 611710 Trunking System HF, 611710, Trunking System HF, System HF, HF

References

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- Welcome to Legrand - Legrand
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