

Product Environmental Profile

Perforated sheet metal cable trays

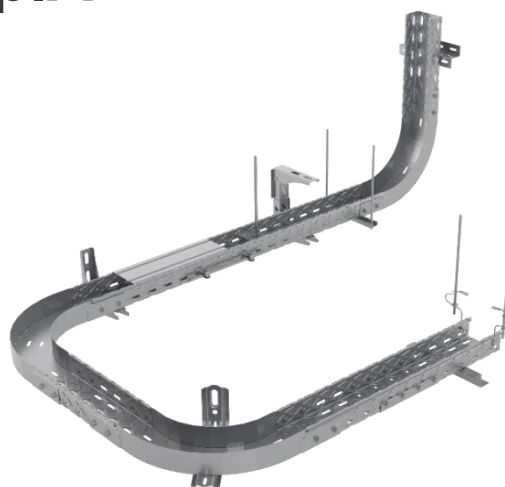
BRX, BRN HL and BRN NP with finish GAC

GEWISS S.p.A

Série **BRX**
Chemins de câbles tôle perforés

Série **BRN
HL**
Chemins de câbles tôle
Heavy Load

Série **BRN
NP**
Chemins de câbles tôle
non perforés



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Verifier authorisation No : VH40	Information and standards: www.pep-ecopassport.org
Publication date : 02-2024 Date of first revision: 29/07/2025 (addition of BRN HL and BRN NP references)	Period of validity: 5 years
Independent verification of declaration and data in accordance with ISO 14025: 2010	
Internal : ☐	External : ☒
The PCR review was conducted by a panel of experts chaired by Julie ORGELET(DDemain)	
PEPs are compliant with EN 50693:2019	
The components of the present PEP may not be compared with components from any other program	
Document in compliance with ISO 14025: 2010 « Environmental labels and declarations. Type III environmental declarations »	

Disclaimer

The information contained in this declaration is provided under the responsibility of GEWISS in accordance with standard NF EN ISO 14025, PCR-ed4-FR-2021 09 06 and PSR-0018-ed1.2-FR-2024 09 26.

Any use, in whole or in part, of the information provided in this document must at least be accompanied by the full reference of the original PEP and its producer, who will be able to provide a complete copy.

Reading instructions

- The following display rules are used:
- Values are expressed in simplified scientific notation: $0.0038 = 3.80 \times 10^{-3} = 3.80E-3$;
 - When the result of the inventory calculation is zero, the value zero is displayed;
 - Non-zero values are expressed to 3 significant figures.

List of abbreviations used :
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UD / DU : Unité Déclarée / Declared Unit
UF / FU : Unité Fonctionnelle / Unité Fonctionnelle / Functional Unit

General background

This declaration is an individual declaration covering the life cycle from cradle to grave (over the entire life cycle, with module D), produced at the request of the company GEWISS.

The declaration is available at the following addresses:
www.pep-ecopassport.org/fr/
www.inies.fr

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Reference product characteristics

Product family	Cable trays systems et cable ladder systems
Subfamily	Cable trays system
Main function	Cable support and guidance
Relevant standard	Cable trays system : Norme EN 61537
Manufacturing site	"Le Bouleau", 21430 Liernais, France
Type of Cable trays	Perforated sheet metal cable trays (BRX)
Range	BRX with finish GAC
Zinc coating	320 100 g zinc /m² steel
Reference product	MVX40225
Size	B = 215 mm x H = 50mm
Main components (for 1m of cable tray)	Long element (1m) Joining length elements (0.33 units) Angle with 90° change of plane (0.04 units) 90° angle in plane (0.16 units) Bracket support (0.66 units)

Mass of reference product

Unit	For a 3m cable tray	FU (1m)
Total mass (Product + Packaging + Additional elements) [kg]	11,253 kg	3,751 kg
Product mass [kg]	10,915 kg	3,638 kg
Packaging mass [kg]	0,333 kg	0,111 kg
Additional element mass [kg]	0,005 kg	0,002 kg

Constituent materials

The constituent materials of the reference product and its packaging are :

Metals	%	Plastics	%	Other	%
Total	97,05%	Total	0,09%	Total	2,86%
Galvanised steel	97,05%	LDPE	0,09%	Wood	2,46%
				Cardboard	0,40%

Biogenic carbon content

Unit	For a 3m cable tray	FU (1m)
Biogenic carbon content of the product	0,00E+00 kg C	0,00E+00 kg C /UF
Biogenic carbon content of the packaging	1,42E-01 kg C	4,74E-02 kg C /UF

Life Cycle Assessment methodology

The life cycle analysis on which this Product Environmental Profile (PEP) is based complies with the criteria imposed by PCR-ed4-FR-2021 09 06 of the ecopassport® PEP Programme. The life cycle analysis was carried out using SIMAPRO software version V9.2.0.2 and Ecoinvent V3.7.1- system model: allocation, cut-off by classification. The lifetime is provided in paragraph 3.1.2. Reference product and reference flow description in PSR-0003-ed2-EN-2023 06 06. End-of-life modelling follows the default scenarios proposed in PSR-0003-ed2-EN-2023 06 06.

Geographical representativeness	The scenarios are representative of production, installation, use and end-of-life treatment in France.
Technological representativeness	The PEP is representative of a galvanised steel cable tray.

Lifecycle stages

Manufacturing stage, A1-A3

- The product consists of the following elements:
- Components : BRX GAC galvanised steel slit coils or strips for length elements, joining length elements, angles with 90° change of plane, 90° angle in the plane
 - Components: Support (including fasteners)
 - Default packaging for components (50% wood, 40% cardboard, 10% LDPE)

The production of all these elements was included in the study.
Inbound transport was included in the study.
The production and treatment of production waste and packaging have also been taken into account.

The electricity energy models for assembly are: 'Electricity, medium voltage {FR}| market for | Cut-off, S'.

Distribution stage, A4

The distribution stage includes transport by 16-32t lorry of the packaged product from the manufacturer's last logistics platform to the distributor and then to the installation site.
The product is distributed and installed in France.
No repackaging has been considered in the modelling.

Parameter	Value
Distance	300 km

Installation stage , A5

- The installation stage includes :
- Energy consumption due to the screwing of the cable trays. The electricity energy model is: 'Electricity, medium voltage {FR}| market for | Cut-off, U'.
 - The supply of additional products (screws and clamps)
 - Management of packaging waste during installation.

Use stages, B1-B7

Parameters B2	Value
Maintenance	The product requires no special maintenance

End of life stages, C1-C4

Uninstallation is carried out with electricity consumption (unscrewing) 'Electricity, medium voltage {FR}| market group for | Cut-off, U'.
The end-of-life of the product is modelled according to the default scenario for steel waste in PSR-0003-ed2-EN-2023 06 06.
The cable tray is transported over 100km before being 88% recycled and 12% buried.
All processing operations have been taken into account up to the point of substitution in accordance with the rules of PCR ed4.

Net profits and expenses beyond system boundaries (module D)

Module D includes the net benefits and costs of the installation and end-of-life stages, which have been modelled according to the PCR ed4 rules. The treatment of wood, plastic, cardboard and steel waste generates costs and benefits associated with the external supply of secondary materials and associated with the external supply of energy following the incineration of the waste.
The electricity energy model is 'Electricity, medium voltage {FR}| market group for | Cut-off, U'.

Environmental impact results

In order to ensure consistency in the environmental impact results between the functional unit (1m) and the reference product (1 x 3ml cable tray), the environmental impacts of the PEP for the reference product are calculated as follows:

*environmental impact of the functional unit * 3*

Environmental impact results per m corresponding to the functional unit (EN 15804+A2)

The impact results presented below were obtained using the methods defined in PCR-ed4-FR-2021 09 06.

Mandatory indicators PER FU

Indicators	Unit / FU	Manufacturing A1+A2+A3	Distribution A4	Installation A5	Use B1	Use B2	Use B3	Use B4	Use B5	Use B6	Use B7	Total Use B1+B2+B3+B4+B5+B6+B7	End of life C1+C2+C3+C4	Total Life Cycle	Module D
Climate change - total	kg CO ₂ eq	2,12E+01	9,76E-02	9,37E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,69E-01	2,28E+01	-8,91E-02
Climate change - fossil	kg CO ₂ eq	2,11E+01	9,76E-02	7,41E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,29E-01	2,25E+01	-1,10E-01
Climate change - biogenic	kg CO ₂ eq	1,36E-01	3,92E-05	1,96E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,95E-02	3,72E-01	2,11E-02
Climate change - land use and change	kg CO ₂ eq	1,90E-02	2,84E-05	6,27E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,89E-04	2,00E-02	-4,61E-05
Ozone depletion	kg CFC11 eq	1,48E-06	2,39E-08	5,94E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,06E-08	1,61E-06	-4,93E-09
Acidification	mol H ⁺ eq	8,84E-02	3,07E-04	3,03E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,03E-03	9,37E-02	-4,02E-04
Eutrophication, freshwater	kg P eq	1,12E-03	7,31E-07	3,67E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,40E-05	1,18E-03	-5,29E-06
Eutrophication, marine	kg N eq	1,88E-02	6,87E-05	6,60E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,74E-04	2,00E-02	-9,17E-05
Eutrophication, terrestrial	mol N eq	1,96E-01	7,63E-04	6,78E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,91E-03	2,08E-01	-1,00E-03
Photochemical ozone formation	kg NMVOC eq	8,07E-02	2,99E-04	2,80E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,54E-03	8,64E-02	-5,09E-04
Resource use, minerals and metals	kg Sb eq	3,49E-04	2,39E-07	1,12E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,54E-06	3,63E-04	-1,84E-07
Resource use, fossils	MJ	2,69E+02	1,59E+00	9,54E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,58E+00	2,88E+02	-
Water use	m ³ depriv.	7,20E+00	5,24E-03	2,51E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,82E-01	8,14E+00	-2,10E-02

Product Environmental Profile



Indicators	Unit / FU	Manufacturing A1+A2+A3	Distribution A4	Installation A5	Use B1	Use B2	Use B3	Use B4	Use B5	Use B6	Use B7	Total Use B1+B2+B3+B4+B5+B6+B7	End of life C1+C2+C3+C4	Total Life Cycle	Module D
Particulate matter	disease inc.	1,16E-06	8,51E-09	4,13E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,18E-08	1,24E-06	-6,75E-09
Ionising radiation	kBq U-235 eq	1,03E+00	6,97E-03	3,70E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,44E-02	1,11E+00	-5,69E-03
Ecotoxicity, freshwater	CTUe	5,69E+02	1,22E+00	1,91E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,32E+01	6,02E+02	-2,53E+00
Human toxicity, cancer	CTUh	1,08E-07	3,72E-11	3,54E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,10E-09	1,13E-07	-6,42E-10
Human toxicity, non-cancer	CTUh	4,43E-07	1,26E-09	1,50E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,88E-09	4,67E-07	-2,19E-09
Land use	Pt	2,34E+02	2,81E+00	8,39E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,54E+00	2,51E+02	-1,60E+00
Renewable primary energy excl. RM	MJ, net CV	2,69E+01	1,94E-02	8,85E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,45E-01	2,84E+01	-1,99E-01
Renewable primary energy used as RM	MJ, net CV	1,28E+00	0,00E+00	-8,42E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,34E-01	0,00E+00
Total renewable primary energy	MJ, net CV	2,82E+01	1,94E-02	4,27E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,45E-01	2,88E+01	-1,99E-01
Non renewable primary energy excl. RM	MJ, net CV	2,65E+02	1,59E+00	9,42E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,53E+00	2,84E+02	-1,26E+00
Non renewable primary energy used as RM	MJ, net CV	2,14E+00	0,00E+00	-4,01E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,10E+00	-2,37E-01
Total non renewable primary energy	MJ, net CV	2,67E+02	1,59E+00	9,37E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,53E+00	2,86E+02	-1,50E+00
Use of secondary material	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable secondary fuels	MJ, net CV	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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	MJ, net CV	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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	m3	2,42E-01	2,43E-04	8,36E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,80E-02	2,69E-01	-6,77E-04

Product Environmental Profile

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Indicators	Unit / FU	Manufacturing A1+A2+A3	Distribution A4	Installation A5	Use B1	Use B2	Use B3	Use B4	Use B5	Use B6	Use B7	Total Use B1+B2+B3+B4 +B5+B6+B7	End of life C1+C2 +C3+C4	Total Life Cycle	Module D
Total use of primary energy during the life cycle	MJ, net CV	2,95E+02	1,61E+00	9,41E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,07E+00	3,14E+02	- 1,70E+00
Hazardous waste disposed	kg	4,90E+00	1,03E-03	1,61E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,12E-01	5,18E+00	-1,26E- 02
Non hazardous waste disposed	kg	3,25E+01	1,49E-01	1,17E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,57E-01	3,47E+01	-2,41E- 01
Radioactive waste disposed	kg	1,01E-03	1,09E-05	3,81E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,38E-05	1,09E-03	-6,94E- 06
Components for re-use	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	5,48E-01	0,00E+00	1,01E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,01E+00	2,66E+00	0,00E+00
Materials for energy recovery	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Biogenic carbon content of the product	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	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	kg of C.	4,74E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,74E-02	0,00E+00

Environmental impact results by equipment corresponding to the reference product (a 3m cable tray) (EN 15804+A2)

Mandatory indicators PER EQUIPMENT

Indicators	Unit / FU	Manufacturing A1+A2+A3	Distribution A4	Installation A5	Use B1	Use B2	Use B3	Use B4	Use B5	Use B6	Use B7	Total Use B1+B2+B3+B4 +B5+B6+B7	End of life C1+C2 +C3+C4	Total Life Cycle	Module D
Climate change - total	kg CO2 eq	6,37E+01	2,93E-01	2,81E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,71E+00	6,85E+01	-2,67E-01
Climate change - fossil	kg CO2 eq	6,33E+01	2,93E-01	2,22E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,59E+00	6,74E+01	-3,30E-01
Climate change - biogenic	kg CO2 eq	4,09E-01	1,17E-04	5,88E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,19E-01	1,12E+00	6,32E-02
Climate change - land use and change	kg CO2 eq	5,69E-02	8,52E-05	1,88E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,17E-03	6,01E-02	-1,38E-04
Ozone depletion	kg CFC11 eq	4,43E-06	7,18E-08	1,78E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,52E-07	4,83E-06	-1,48E-08
Acidification	mol H+ eq	2,65E-01	9,22E-04	9,09E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,09E-03	2,81E-01	-1,21E-03
Eutrophication, freshwater	kg P eq	3,35E-03	2,19E-06	1,10E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,21E-05	3,53E-03	-1,59E-05
Eutrophication, marine	kg N eq	5,65E-02	2,06E-04	1,98E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,42E-03	6,01E-02	-2,75E-04
Eutrophication, terrestrial	mol N eq	5,88E-01	2,29E-03	2,04E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,47E-02	6,25E-01	-3,00E-03
Photochemical ozone formation	kg NMVOC eq	2,42E-01	8,98E-04	8,41E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,61E-03	2,59E-01	-1,53E-03
Resource use, minerals and metals	kg Sb eq	1,05E-03	7,17E-07	3,37E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,62E-06	1,09E-03	-5,53E-07
Resource use, fossils	MJ	8,08E+02	4,77E+00	2,86E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,27E+01	8,64E+02	-
Water use	m3 depriv.	2,16E+01	1,57E-02	7,54E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,05E+00	2,44E+01	-6,29E-02

Product Environmental Profile



Indicators	Unit / FU	Manufacturing A1+A2+A3	Distribution A4	Installation A5	Use B1	Use B2	Use B3	Use B4	Use B5	Use B6	Use B7	Total Use B1+B2+B3+B4 +B5+B6+B7	End of life C1+C2 +C3+C4	Total Life Cycle	Module D
Particulate matter	disease inc.	3,48E-06	2,55E-08	1,24E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,53E-08	3,72E-06	-2,03E-08
Ionising radiation	kBq U-235 eq	3,09E+00	2,09E-02	1,11E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,03E-01	3,32E+00	-1,71E-02
Ecotoxicity, freshwater	CTUe	1,71E+03	3,66E+00	5,74E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,96E+01	1,81E+03	- 7,60E+00
Human toxicity, cancer	CTUh	3,23E-07	1,12E-10	1,06E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,30E-09	3,40E-07	-1,93E-09
Human toxicity, non-cancer	CTUh	1,33E-06	3,77E-09	4,51E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,36E-08	1,40E-06	-6,58E-09
Land use	Pt	7,01E+02	8,43E+00	2,52E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,66E+01	7,52E+02	- 4,79E+00
Renewable primary energy excl. RM	MJ, net CV	8,08E+01	5,81E-02	2,65E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,63E+00	8,51E+01	-5,97E-01
Renewable primary energy used as RM	MJ, net CV	3,83E+00	0,00E+00	-2,53E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,30E+00	0,00E+00
Total renewable primary energy	MJ, net CV	8,46E+01	5,81E-02	1,28E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,63E+00	8,64E+01	-5,97E-01
Non renewable primary energy excl. RM	MJ, net CV	7,96E+02	4,77E+00	2,83E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,26E+01	8,51E+02	- 3,79E+00
Non renewable primary energy used as RM	MJ, net CV	6,42E+00	0,00E+00	-1,20E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,30E+00	-7,10E-01
Total non renewable primary energy	MJ, net CV	8,01E+02	4,77E+00	2,81E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,26E+01	8,57E+02	- 4,49E+00
Use of secondary material	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable secondary fuels	MJ, net CV	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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	MJ, net CV	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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	m3	7,26E-01	7,29E-04	2,51E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,41E-02	8,06E-01	-2,03E-03

Indicators	Unit / FU	Manufacturing A1+A2+A3	Distribution A4	Installation A5	Use B1	Use B2	Use B3	Use B4	Use B5	Use B6	Use B7	Total Use B1+B2+B3+B4 +B5+B6+B7	End of life C1+C2 +C3+C4	Total Life Cycle	Module D
Total use of primary energy during the life cycle	MJ, net CV	8,86E+02	4,82E+00	2,82E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,42E+01	9,43E+02	-
Hazardous waste disposed	kg	1,47E+01	3,08E-03	4,84E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,35E-01	1,55E+01	-3,78E-02
Non hazardous waste disposed	kg	9,75E+01	4,48E-01	3,52E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,57E+00	1,04E+02	-7,23E-01
Radioactive waste disposed	kg	3,02E-03	3,26E-05	1,14E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,01E-04	3,27E-03	-2,08E-05
Components for re-use	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	1,64E+00	0,00E+00	3,04E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,02E+00	7,97E+00	0,00E+00
Materials for energy recovery	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Biogenic carbon content of the product	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	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	kg of C.	1,42E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,42E-01	0,00E+00

The references covered by the PEP are as follows:

The technical characteristics of these references are shown in the table below:

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	Range	Reference	Size (L ou B)	Size (H)	Masse of system cable trays / UF	Extrapolation factor
Characteristics of the products covered	BRX GAC	MVX40200	65 mm	BRX35	1,03E+00 kg	0,46
	BRX GAC	MVX40201	95 mm	BRX35	1,23E+00 kg	0,54
	BRX GAC	MVX40203	155 mm	BRX35	1,63E+00 kg	0,72
	BRX GAC	MVX40205	215 mm	BRX35	2,03E+00 kg	0,90
	BRX GAC	MVX40208	305 mm	BRX35	3,02E+00 kg	1,34
	BRX GAC	MVX40211	395 mm	BRX35	3,71E+00 kg	1,64
	BRX GAC	MVX40215	515 mm	BRX35	5,82E+00 kg	2,58
	BRX GAC	MVX40217	605 mm	BRX35	6,69E+00 kg	2,96
	BRX GAC	MVX40220	65 mm	BRX50	1,26E+00 kg	0,56
	BRX GAC	MVX40221	95 mm	BRX50	1,46E+00 kg	0,64
	BRX GAC	MVX40223	155 mm	BRX50	1,86E+00 kg	0,82
	BRX GAC	MVX40225	215 mm	BRX50	2,26E+00 kg	1,00
	BRX GAC	MVX40228	305 mm	BRX50	3,28E+00 kg	1,45
	BRX GAC	MVX40231	395 mm	BRX50	4,99E+00 kg	2,21
	BRX GAC	MVX40235	515 mm	BRX50	6,15E+00 kg	2,72
	BRX GAC	MVX40237	605 mm	BRX50	7,01E+00 kg	3,10
	BRX GAC	MVX0023LD	95 mm	BRX80	1,86E+00 kg	0,82
	BRX GAC	MVX0023LF	155 mm	BRX80	2,26E+00 kg	1,00
	BRX GAC	MVX0023LH	215 mm	BRX80	3,05E+00 kg	1,35
	BRX GAC	MVX0023LL	305 mm	BRX80	3,74E+00 kg	1,66
	BRX GAC	MVX0023LP	395 mm	BRX80	5,57E+00 kg	2,46
	BRX GAC	MVX0023LU	515 mm	BRX80	6,72E+00 kg	2,98
	BRX GAC	MVX0023LX	605 mm	BRX80	7,59E+00 kg	3,36
	BRX GAC	MVX0023ND	95 mm	BRX95	2,03E+00 kg	0,90
	BRX GAC	MVX0023NF	155 mm	BRX95	2,79E+00 kg	1,24
	BRX GAC	MVX0023NH	215 mm	BRX95	3,25E+00 kg	1,44
	BRX GAC	MVX0023NL	305 mm	BRX95	4,95E+00 kg	2,19
	BRX GAC	MVX0023NP	395 mm	BRX95	5,82E+00 kg	2,58
	BRX GAC	MVX0023NU	515 mm	BRX95	6,98E+00 kg	3,09
	BRX GAC	MVX0023NX	605 mm	BRX95	7,85E+00 kg	3,47
	BRN NP GAC	MVG0023GC	65 mm	50	1,74E+00 kg	0,77
	BRN NP GAC	MVG0023GD	95 mm	50	2,03E+00 kg	0,90
	BRN NP GAC	MVG0023GF	155 mm	50	2,61E+00 kg	1,16
	BRN NP GAC	MVG0023GH	215 mm	50	3,20E+00 kg	1,41
	BRN NP GAC	MVG0023GL	305 mm	50	4,07E+00 kg	1,80
	BRN NP GAC	MVG0023GP	395 mm	50	7,18E+00 kg	3,18
	BRN NP GAC	MVG0023GU	515 mm	50	8,88E+00 kg	3,93
	BRN NP GAC	MVG0023GX	605 mm	50	1,01E+01 kg	4,49
	BRN NP GAC	MVG0023LD	95 mm	80	2,61E+00 kg	1,15
	BRN NP GAC	MVG0023LF	155 mm	80	3,19E+00 kg	1,41
	BRN NP GAC	MVG0023LH	215 mm	80	3,78E+00 kg	1,67
	BRN NP GAC	MVG0023LL	305 mm	80	4,57E+00 kg	2,02
	BRN NP GAC	MVG0023LP	395 mm	80	8,03E+00 kg	3,55
	BRN NP GAC	MVG0023LU	515 mm	80	9,72E+00 kg	4,30
	BRN NP GAC	MVG0023LX	605 mm	80	1,10E+01 kg	4,86

	BRN NP GAC	MVG0023ND	95 mm	95	2,90E+00 kg	1,28
	BRN NP GAC	MVG0023NF	155 mm	95	3,48E+00 kg	1,54
	BRN NP GAC	MVG0023NH	215 mm	95	4,07E+00 kg	1,80
	BRN NP GAC	MVG0023NL	305 mm	95	7,17E+00 kg	3,17
	BRN NP GAC	MVG0023NP	395 mm	95	8,44E+00 kg	3,74
	BRN NP GAC	MVG0023NU	515 mm	95	1,01E+01 kg	4,48
	BRN NP GAC	MVG0023NX	605 mm	95	1,14E+01 kg	5,05
	BRN HL GAC	MVH0023GC	65 mm	50	2,94E+00 kg	1,30
	BRN HL GAC	MVH0023GD	95 mm	50	3,41E+00 kg	1,51
	BRN HL GAC	MVH0023GF	155 mm	50	4,36E+00 kg	1,93
	BRN HL GAC	MVH0023GH	215 mm	50	5,30E+00 kg	2,34
	BRN HL GAC	MVH0023GL	305 mm	50	6,71E+00 kg	2,97
	BRN HL GAC	MVH0023GP	395 mm	50	8,13E+00 kg	3,60
	BRN HL GAC	MVH0023GU	515 mm	50	1,00E+01 kg	4,43
	BRN HL GAC	MVH0023GX	605 mm	50	1,14E+01 kg	5,06
	BRN HL GAC	MVH0023LD	95 mm	80	4,36E+00 kg	1,93
	BRN HL GAC	MVH0023LF	155 mm	80	5,30E+00 kg	2,34
	BRN HL GAC	MVH0023LH	215 mm	80	6,24E+00 kg	2,76
	BRN HL GAC	MVH0023LL	305 mm	80	7,65E+00 kg	3,39
	BRN HL GAC	MVH0023LP	395 mm	80	9,07E+00 kg	4,01
	BRN HL GAC	MVH0023LU	515 mm	80	1,10E+01 kg	4,85
	BRN HL GAC	MVH0023LX	605 mm	80	1,24E+01 kg	5,47
	BRN HL GAC	MVH0023ND	95 mm	95	4,77E+00 kg	2,11
	BRN HL GAC	MVH0023NF	155 mm	95	5,71E+00 kg	2,53
	BRN HL GAC	MVH0023NH	215 mm	95	6,66E+00 kg	2,95
	BRN HL GAC	MVH0023NL	305 mm	95	8,07E+00 kg	3,57
	BRN HL GAC	MVH0023NP	395 mm	95	9,44E+00 kg	4,18
	BRN HL GAC	MVH0023NU	515 mm	95	1,14E+01 kg	5,03
	BRN HL GAC	MVH0023NX	605 mm	95	1,23E+01 kg	5,45

Extrapolation parameter

The different cable trays in the range have an identical life cycle, the only parameters that vary are the mass.

PSR-0003-ed2-FR-2023 06 06 specifies that ‘after a documented sensitivity study, it has been proven that the environmental impacts of these systems over phases A1 to C4 are globally proportional to their mass’. The extrapolation parameter is therefore as follows: Mass

The extrapolation coefficient to be applied to the Values of the environmental indicators =

$$\frac{\text{mass of the product system under consideration (kg)}}{\text{mass of the product system under consideration (kg)}}$$

With the reference product identified in dark colour in the previous table. The extrapolation coefficients were calculated in the previous table.

The extrapolation coefficients are given for the environmental impact of the functional unit, i.e. 1m. The environmental impact of a system covered by PEP Ecopassport® other than the reference system for which it was established, can be calculated by multiplying the Values of the environmental indicators by the corresponding extrapolation factor for each phase of the life cycle and the total of the life cycle.