

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

SE-N1XE-R Light 4G16



EPD-Global

Owner of the declaration:

Prysmian Sverige AB

Product:

SE-N1XE-R Light 4G16

Declared unit:

m

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR

NPCR 027:2020 Part B for Electrical cables and wires

Program operator:

EPD-Global

Declaration number:

NEPD-12875-14041

Issue date:

29.10.2025

Valid to:

29.10.2030

EPD software:

LCAno EPD generator ID: 844888

General information

Product

SE-N1XE-R Light 4G16

Program operator:

EPD-Global
Post Box 5250 Majorstuen, 0303 Oslo, Norway
Phone: +47 977 22 020
web: www.epd-global.com

Declaration number:

NEPD-12875-14041

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 027:2020 Part B for Electrical cables and wires

Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. EPD-Global shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Declared unit:

m SE-N1XE-R Light 4G16

Declared unit with option:

A1, A2, A3, A4, A5, B1, B2, B3, B4, B5, B6, B7, C1, C2, C3, C4, D

Functional unit:

1 m of installed SE-N1XE-R Light 4G16 1kV halogen-free power cable for fixed installation in ground or water outdoors, used to transmit a reference electric current of 1A over a period of 40 years, including waste treatment at end-of-life. Wooden delivery drum is included in the life cycle analysis.

General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Global's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD-Global, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Global's General Programme Instructions for further information on EPD tools

Verification of EPD tool:

Owner of the declaration:

Prysmian Sverige AB
Contact person: Anders Sjöland
Phone: +46 706128204
e-mail: anders.sjoland@prysmiangroup.com

Manufacturer:

Prysmian Sverige AB
Vallgatan 5
571 41 Nässjö, Sweden

Place of production:

Prysmian production site Keila (Baltics)
Paldiski maantee 31
76606 Keila, Estonia

Management system:

ISO 9001, ISO 14001, ISO 45001

Organisation no:

556556-2104

Issue date:

29.10.2025

Valid to:

29.10.2030

Year of study:

2023

Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD-Global.
Approval number: NEPDT33

Developer of EPD: Siri Andersen

Reviewer of company-specific input data and EPD: Kristoffer Berglund

Approved:

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPD-Global's procedures and guidelines for verification and approval of EPD tools. Approval number: NEPDT32.



Håkon Hauan, CEO EPD-Global

Third party verifier:

Vito D'Incognito, Take Care International

(no signature required)

Product

Product description:

Slim, halogen-free, XLPE-insulated power cable with durable PE outer sheath and copper conductor. The cable has been supplemented with a strong ripcord for easier and safer stripping of the outer sheath. Intended for permanent installation in ground or water outdoors. The robust PE-sheath means it is very suitable for plowing and has very low water absorption. Common applications include street lighting, service cable and standard 1 kV distribution cable. Not suitable in hazardous areas or when flame protection is needed.

Product specification

Conductor material: Copper
 Conductor surface: Bare
 Conductor category: Class 2 = stranded
 Shape of conductor: round
 Core insulation material: XLPE
 Core identification (acc. HD 308 S2): Yes
 Rip cord: Yes
 Material outer sheath: Polyethylene (PE)
 Cable shape: Round

Materials	kg	%
Metal - Copper	0.559	78.09
Plastic - Polyester	0.00027	0.03772
Plastic - Polyethylene	0.1524	21.28
Polypropylene (PP)	0.004235	0.5916
Total	0.7159	100.00

Packaging	kg	%
Packaging - Wooden drums	0.07	100.00
Total incl. packaging	0.78	100.00

Technical data:

SAP code: 20172209
 E no: 0003265

Adheres to
 SS 424 14 18 Construction standard
 CENELEC HD 603 Part 5 Section O Harmonized construction standard

Market:

Sweden

Reference service life, product

40 years. Standard lifetime for energy distribution network applications, provided in appendix 1 of PSR for wires, cables, and accessories of PEP Ecopassport.

Reference service life, building or construction works

40 years. Estimation made to match the product service life and keep the EPD environmental impact calculations at the product level.

LCA: Calculation rules

Declared unit:

m SE-N1XE-R Light 4G16

Cut-off criteria:

All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.

Allocation:

The allocation is made in accordance with the provisions of EN 15804. Incoming energy and water and waste production in-house is allocated equally among all products through mass allocation. Effects of primary production of recycled materials is allocated to the main product in which the material was used. The recycling process and transportation of the material is allocated to this analysis.

Data quality:

Specific data for the product composition are provided by the manufacturer. The data represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on EPDs according to EN 15804 and different LCA databases. The data quality of the raw materials in A1 is presented in the table below.

The data collection at the factory has been conducted during the following period: 12/2022-11/2023. This correspond to 12 months/ a year of production.

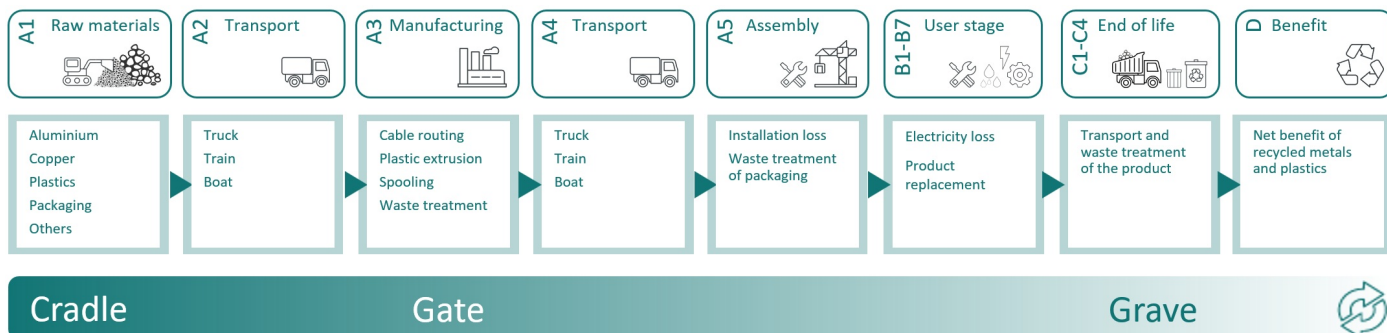
Materials	Source	Data quality	Year
Metal - Copper	Modified ecoinvent 3.6	Database	2019
Packaging - Wooden drums	Modified ecoinvent 3.6	Supplier data + database	2019
Plastic - Polyester	Modified ecoinvent 3.6	Database	2019
Plastic - Polyethylene	ecoinvent 3.6	Database	2019
Polypropylene (PP)	ecoinvent 3.6	Database	2019

System boundaries (X=included, MND=module not declared, MNR=module not relevant)

Product stage			Construction installation stage		Use stage							End of life stage				Beyond the system boundaries
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

System boundary:

The flowchart below illustrates the system boundaries of the analysis:



Additional technical information:

Rated voltage U₀/U (U_m): 0.6/1 (1.2) kV

Flame retardant: No

Halogen free: Yes

Insulation integrity (acc. IEC 60331): No

Max. conductor temperature: 90

Permitted cable outer temperature after assembling without vibration (min)[°C]: -60

Permitted cable outer temperature after assembling without vibration (max) [°C]: 60

UV resistant: Yes

Outdoor installation: Yes

Min. outer temperature during installation [°C]: -20

Max. outer temperature during installation [°C]: 40

Underground installation: Yes

LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

Module A4 = In A4, an average distance 750km between the factory in Estonia and Swedish warehouse is considered. In addition, an extra transport to the Swedish market averaging 1000km is included

Modules A5 = 2% product losses during installation are estimated by the company. No energy use for installation has been quantified since this operation is assumed to be done with other products and should be assessed at a construction works level.

Cable drums are reused and assumed under the cut-off criterion of 1%.

Modules B1, B2, B3, B5, and B7 = Company data shows that no significant activities have been reported for use, maintenance, repair, replacement, refurbishment, and water use. This reflects an absence of impacts during the 40 years reference service life of the cable in these modules.

Module B4 = The service life of the building is the same as the service life of the product, no replacement activities are taking place in module B4.

Module B6 = The operational energy use of the cable is calculated based on the methodology described in PEP Ecopassport, Product Specific Rules (PSR) for wires, cables and accessories, reference PSR-0001-ed3-EN-2015 10 16. The following parameters are used to calculate the electricity loss of the cable:

- Reference service life = 40 years (according to appendix 1 of the PSR)
- Number of conductors = 3 units (the protection conductor is not transmitting power and should not be included here)
- Use rate = 100% percent (according to appendix 1 of the PSR)
- Linear conductor resistivity = 0,00115 Ohm per meter
- Current intensity = 1 Ampere

Module C1 = For both buildings and construction works, cables will be taken out as part of a larger demolition. The energy use for cable removal compared to other heavier materials is assumed to be low. This module can therefore be included with zero impact.

Module C2 = 300 km is added as default average transport to nearest waste treatment facility.

Modules C3 and C4 = Waste treatment of the product follows the default values provided in EN 50693, Product Category Rules for life cycle assessments of electronic and electrical products and systems, table G.4. This table specified how different types of raw materials used in A1 will likely be treated during the end-of-life of the product. Waste treatments in C3 include material recycling and incineration with and without energy recovery and fly ash extraction.

Disposal in C4 consist of landfilling of different waste fractions and of ashes.

Module D = The recyclability of metals and plastics allows the producers a credit for the net scrap that is produced at the end of a product's life. The benefits from recycling of net scrap are described in formula from EN 15804:2012+A2:2019.

Substitution of heat and electricity generated by the incineration with energy recovery of plastic insulation and other parts is also calculated in module D.

Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Ship, Ferry, Sea (km)	50.0 %	300.00	0.034	l/tkm	10.20
Truck, 16-32 tonnes, EURO 5 (km) - Europe	36.7 %	1450.00	0.044	l/tkm	63.80
Assembly (A5)	Unit	Value			
Product loss during installation (percentage of cable)	Units/DU	0.02			
Waste, packaging, wooden drums, reusable, 0% recycled content, to average treatment (kg) - A5 with average transport	kg	0.068			
Operational energy (B6)	Unit	Value			
Electricity, Sweden (kWh)	kWh/DU	1.21			
Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 5 (km) - Europe	36.7 %	300.00	0.044	l/tkm	13.20
Waste processing (C3)	Unit	Value			
Copper to recycling (kg)	kg	0.3354			
Waste treatment of polyethylene (PE), incineration with energy recovery and fly ash extraction (kg)	kg	0.07618			
Waste treatment of plastic mixture, incineration with energy recovery and fly ash extraction (kg)	kg	0.000135			
Polypropylene (PP) to recycling (kg)	kg	0.000847			
Waste treatment of polypropylene (PP), incineration with energy recovery and fly ash extraction (kg)	kg	0.001694			

Disposal (C4)	Unit	Value			
Landfilling of copper (kg)	kg	0.2236			
Landfilling of ashes from incineration of Polyethylene (PE), process per kg ashes and residues (kg)	kg	0.002685			
Landfilling of plastic mixture (kg)	kg	0.07618			
Landfilling of ashes from incineration of Plastic mixture, process per kg ashes and residues (kg)	kg	0.000004721			
Landfilling of plastic mixture (kg)	kg	0.001829			
Landfilling of ashes from incineration of Polypropylene (PP), process per kg ashes and residues (kg)	kg	0.00005042			

Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of primary copper with net scrap (kg)	kg	0.1342			
Substitution of electricity (MJ)	MJ	0.1507			
Substitution of thermal energy, district heating (MJ)	MJ	2.28			
Substitution of Polypropylene, PP granulate (kg)	kg	0.000847			

LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

Environmental impact										
Indicator		Unit	A1	A2	A3	A4	A5	B1	B2	B3
	GWP-total	kg CO ₂ -eq	2.36E+00	2.24E-01	1.84E-02	2.15E-01	1.57E-01	0	0	0
	GWP-fossil	kg CO ₂ -eq	2.43E+00	2.24E-01	1.79E-02	2.15E-01	6.54E-02	0	0	0
	GWP-biogenic	kg CO ₂ -eq	-7.46E-02	8.96E-05	4.70E-04	8.39E-05	9.17E-02	0	0	0
	GWP-luluc	kg CO ₂ -eq	2.96E-03	8.52E-05	1.13E-05	8.23E-05	6.37E-05	0	0	0
	ODP	kg CFC11 -eq	1.83E-07	5.04E-08	1.52E-08	4.84E-08	6.51E-09	0	0	0
	AP	mol H ⁺ -eq	2.08E-01	1.31E-03	9.10E-05	1.62E-03	4.24E-03	0	0	0
	EP-FreshWater	kg P -eq	1.78E-03	1.70E-06	2.24E-07	1.59E-06	3.56E-05	0	0	0
	EP-Marine	kg N -eq	8.24E-03	2.97E-04	3.47E-05	4.41E-04	1.88E-04	0	0	0
	EP-Terrestrial	mol N -eq	1.21E-01	3.31E-03	3.50E-04	4.89E-03	2.68E-03	0	0	0
	POCP	kg NMVOC -eq	3.64E-02	1.02E-03	9.54E-05	1.38E-03	8.00E-04	0	0	0
	ADP-minerals&metals ¹	kg Sb-eq	6.17E-04	5.65E-06	9.75E-08	5.31E-06	1.26E-05	0	0	0
	ADP-fossil ¹	MJ	3.86E+01	3.35E+00	3.55E+00	3.19E+00	1.03E+00	0	0	0
	WDP ¹	m ³	8.49E+01	2.99E+00	1.55E+00	2.79E+00	1.94E+00	0	0	0

Indicator		Unit	B4	B5	B6	B7	C1	C2	C3	C4	D
	GWP-total	kg CO ₂ -eq	0	0	6.64E-02	0	0	3.92E-02	2.34E-01	1.23E-02	-3.38E-01
	GWP-fossil	kg CO ₂ -eq	0	0	6.12E-02	0	0	3.92E-02	2.34E-01	1.23E-02	-3.35E-01
	GWP-biogenic	kg CO ₂ -eq	0	0	1.24E-03	0	0	1.60E-05	1.90E-06	8.74E-07	-1.53E-03
	GWP-luluc	kg CO ₂ -eq	0	0	3.97E-03	0	0	1.37E-05	2.80E-07	1.45E-06	-7.94E-04
	ODP	kg CFC11 -eq	0	0	3.00E-08	0	0	8.94E-09	1.81E-10	1.16E-09	-9.63E-04
	AP	mol H ⁺ -eq	0	0	3.98E-04	0	0	1.60E-04	2.94E-05	3.15E-05	-5.39E-02
	EP-FreshWater	kg P -eq	0	0	4.14E-06	0	0	3.08E-07	1.80E-08	6.83E-08	-3.64E-04
	EP-Marine	kg N -eq	0	0	6.79E-05	0	0	4.75E-05	1.41E-05	2.05E-05	-2.25E-03
	EP-Terrestrial	mol N -eq	0	0	8.93E-04	0	0	5.26E-04	1.53E-04	1.26E-04	-3.47E-02
	POCP	kg NMVOC -eq	0	0	2.04E-04	0	0	1.61E-04	3.65E-05	3.77E-05	-9.42E-03
	ADP-minerals&metals ¹	kg Sb-eq	0	0	2.45E-06	0	0	1.06E-06	8.24E-09	3.12E-08	-3.02E-04
	ADP-fossil ¹	MJ	0	0	7.17E+00	0	0	5.91E-01	1.54E-02	9.33E-02	-3.11E+00
	WDP ¹	m ³	0	0	7.28E+02	0	0	5.64E-01	3.50E-02	2.08E+00	1.51E+01

GWP-total = Global Warming Potential total; GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

"Reading example: 9.0 E-03 = 9.0*10⁻³ = 0.009"

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

Remarks to environmental impacts

Additional environmental impact indicators

Indicator	Unit	A1	A2	A3	A4	A5	B1	B2	B3
 PM	Disease incidence	4.15E-07	1.33E-08	1.81E-09	1.43E-08	9.14E-09	0	0	0
 IRP ²	kgBq U235 -eq	1.11E-01	1.46E-02	1.55E-01	1.39E-02	6.78E-03	0	0	0
 ETP-fw ¹	CTUe	1.72E+03	2.43E+00	7.08E-01	2.29E+00	3.72E+01	0	0	0
 HTP-c ¹	CTUh	3.83E-08	0.00E+00	8.00E-12	0.00E+00	7.70E-10	0	0	0
 HTP-nc ¹	CTUh	2.88E-06	2.66E-09	2.21E-10	2.51E-09	5.79E-08	0	0	0
 SQP ¹	dimensionless	3.52E+01	2.25E+00	3.12E-01	2.01E+00	8.21E-01	0	0	0

Indicator	Unit	B4	B5	B6	B7	C1	C2	C3	C4	D
 PM	Disease incidence	0	0	2.87E-09	0	0	2.82E-09	1.15E-10	5.60E-10	-1.14E-07
 IRP ²	kgBq U235 -eq	0	0	2.46E-01	0	0	2.58E-03	2.60E-05	5.90E-04	-4.79E-03
 ETP-fw ¹	CTUe	0	0	3.78E+00	0	0	4.35E-01	4.64E-02	1.38E+02	-4.96E+02
 HTP-c ¹	CTUh	0	0	1.09E-10	0	0	0.00E+00	5.00E-12	6.00E-12	-7.01E-09
 HTP-nc ¹	CTUh	0	0	2.62E-09	0	0	4.70E-10	1.98E-10	1.28E-10	-6.00E-07
 SQP ¹	dimensionless	0	0	3.18E+00	0	0	4.08E-01	1.87E-03	2.00E-01	-7.55E+00

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Potential Soil Quality Index (dimensionless)

"Reading example: 9.0 E-03 = 9.0×10^{-3} = 0.009"

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator
2. This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Resource use										
Indicator	Unit	A1	A2	A3	A4	A5	B1	B2	B3	
 PERE	MJ	6.47E+00	4.55E-02	6.70E-02	4.24E-02	1.34E-01	0	0	0	
 PERM	MJ	8.56E-01	0.00E+00	0.00E+00	0.00E+00	-8.39E-01	0	0	0	
 PERT	MJ	7.32E+00	4.55E-02	6.70E-02	4.24E-02	-7.05E-01	0	0	0	
 PENRE	MJ	3.14E+01	3.35E+00	3.56E+00	3.19E+00	8.83E-01	0	0	0	
 PENRM	MJ	7.85E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-02	0	0	0	
 PENRT	MJ	3.93E+01	3.35E+00	3.56E+00	3.19E+00	9.07E-01	0	0	0	
 SM	kg	2.12E-01	0.00E+00	0.00E+00	0.00E+00	4.24E-03	0	0	0	
 RSF	MJ	2.28E-02	1.61E-03	1.91E-03	1.50E-03	5.88E-04	0	0	0	
 NRSF	MJ	8.22E-03	5.59E-03	1.90E-04	5.15E-03	5.58E-04	0	0	0	
 FW	m ³	4.91E-02	3.43E-04	1.00E-03	3.17E-04	1.04E-03	0	0	0	

Indicator	Unit	B4	B5	B6	B7	C1	C2	C3	C4	D
 PERE	MJ	0	0	3.45E+00	0	0	8.34E-03	4.53E-04	1.13E-02	-2.32E+00
 PERM	MJ	0	0	0.00E+00	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
 PERT	MJ	0	0	3.45E+00	0	0	8.34E-03	4.53E-04	1.13E-02	-2.32E+00
 PENRE	MJ	0	0	7.19E+00	0	0	5.91E-01	1.54E-02	9.33E-02	-3.09E+00
 PENRM	MJ	0	0	0.00E+00	0	0	0.00E+00	-6.62E+00	0.00E+00	-2.78E-02
 PENRT	MJ	0	0	7.19E+00	0	0	5.91E-01	-6.60E+00	9.33E-02	-3.11E+00
 SM	kg	0	0	0.00E+00	0	0	0.00E+00	0.00E+00	0.00E+00	9.38E-02
 RSF	MJ	0	0	1.34E-02	0	0	2.99E-04	1.28E-05	2.34E-04	8.67E-03
 NRSF	MJ	0	0	4.22E-02	0	0	1.07E-03	0.00E+00	3.07E-04	-5.00E-02
 FW	m ³	0	0	7.83E-03	0	0	6.22E-05	4.36E-05	1.21E-04	-9.26E-03

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non renewable primary energy resources used as raw materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary materials; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

"Reading example: 9.0 E-03 = 9.0*10-3 = 0.009"

End of life - Waste

Indicator		Unit	A1	A2	A3	A4	A5	B1	B2	B3
	HWD	kg	2.67E-02	1.70E-04	9.25E-04	1.59E-04	7.77E-04	0	0	0
	NHWD	kg	7.94E-01	1.56E-01	2.06E-02	1.37E-01	9.69E-02	0	0	0
	RWD	kg	9.98E-05	2.29E-05	5.99E-05	2.18E-05	4.47E-06	0	0	0

Indicator		Unit	B4	B5	B6	B7	C1	C2	C3	C4	D
	HWD	kg	0	0	3.75E-04	0	0	3.01E-05	0.00E+00	1.07E-02	-3.64E-03
	NHWD	kg	0	0	2.37E-02	0	0	2.83E-02	0.00E+00	3.06E-01	-1.59E-01
	RWD	kg	0	0	1.08E-04	0	0	4.03E-06	0.00E+00	6.44E-07	-4.23E-06

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

"Reading example: 9.0 E-03 = 9.0×10^{-3} = 0.009"

End of life - Output flow

Indicator		Unit	A1	A2	A3	A4	A5	B1	B2	B3
	CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0	0	0
	MFR	kg	0.00E+00	0.00E+00	2.45E-02	0.00E+00	7.33E-03	0	0	0
	MER	kg	0.00E+00	0.00E+00	5.17E-03	0.00E+00	6.97E-02	0	0	0
	EEE	MJ	0.00E+00	0.00E+00	4.64E-03	0.00E+00	5.04E-02	0	0	0
	EET	MJ	0.00E+00	0.00E+00	7.02E-02	0.00E+00	7.63E-01	0	0	0

Indicator		Unit	B4	B5	B6	B7	C1	C2	C3	C4	D
	CRU	kg	0	0	0.00E+00	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MFR	kg	0	0	0.00E+00	0	0	0.00E+00	3.36E-01	7.00E-06	-3.67E-03
	MER	kg	0	0	0.00E+00	0	0	0.00E+00	7.80E-02	1.71E-07	-4.85E-04
	EEE	MJ	0	0	0.00E+00	0	0	0.00E+00	1.51E-01	1.11E-05	-1.19E-03
	EET	MJ	0	0	0.00E+00	0	0	0.00E+00	2.28E+00	1.68E-04	-1.80E-02

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

"Reading example: 9.0 E-03 = 9.0×10^{-3} = 0.009"

Biogenic Carbon Content

Indicator	Unit	At the factory gate
Biogenic carbon content in product	kg C	0.00E+00
Biogenic carbon content in accompanying packaging	kg C	2.55E-02

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO₂

Additional requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

Electricity mix	Source	Amount	Unit
Electricity with guarantee of origin, nuclear power, Finland (kWh)	ecoinvent 3.6	13.31	g CO ₂ -eq/kWh

Dangerous substances

The product contains no substances given by the REACH Candidate list.

Indoor environment

Additional Environmental Information

Additional environmental impact indicators required in NPCR Part A for construction products										
Indicator	Unit	A1	A2	A3	A4	A5	B1	B2	B3	
GWPIOBC	kg CO ₂ -eq	2.44E+00	2.24E-01	1.83E-02	2.15E-01	6.55E-02	0	0	0	
Indicator	Unit	B4	B5	B6	B7	C1	C2	C3	C4	D
GWPIOBC	kg CO ₂ -eq	0	0	6.63E-02	0	0	3.92E-02	2.34E-01	1.29E-02	-1.67E-01

GWPIOBC: Global warming potential calculated according to the principle of instantaneous oxidation. In order to increase the transparency of biogenic carbon contribution to climate impact, the indicator GWP-IOBC is required as it declares climate impacts calculated according to the principle of instantaneous oxidation. GWP-IOBC is also referred to as GWP-GHG in context to Swedish public procurement legislation.

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