

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

835145NN VULTA Dca 0,6/1kV gy# 4x25/16 mm²



Owner of the declaration:

Prysmian Group Baltics AS

Product:

835145NN VULTA Dca 0,6/1kV gy# 4x25/16 mm²

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:

Issue date:

Valid to:

EPD software:

LCAno EPD generator ID: 1257720

General information

Product

835145NN VULTA Dca 0,6/1kV gy# 4x25/16 mm2

Program operator:

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

Declaration number:

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 835145NN VULTA Dca 0,6/1kV gy# 4x25/16 mm2

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 VULTA Dca 0,6/1kV gy# 4x25/16 mm2 outdoor power cable, used to transmit a reference energy throughput of 1A at 70% use rate over a period of 30 years. Including waste treatment at end of life.

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:

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.

Third party verifier:

Vito D'Incognito, Take Care International

(no signature required)

Owner of the declaration:

Prysmian Group Baltics AS
Contact person: Raigo Viltrop
Phone: +372 674 7466
e-mail: info.keila@prysmian.com

Manufacturer:

Prysmian Netherlands B.V.
Schieweg 9
2627 AN Delft, Netherlands

Place of production:

Prysmian production site Emmen (Netherlands)
Abel Tasmanstraat 1
7821 AN Emmen, Netherlands

Management system:

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

Organisation no:

EE100428935

Issue date:

Valid to:

Year of study:

2024

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: Kristi Elme

Reviewer of company-specific input data and EPD: Doris Seli

Approved:

Product

Product description:

VULTA Dca is an armoured power cable. The cable is designed for direct-bury, but can also be used in above-ground installations with additional mechanical protection requirements. The cable can also be used in situations with a high ambient temperature and in cable bundles. The cable is suitable for building installations, residential construction, and industrial installations. The cable guarantees excellent mechanical protection thanks to the steel wire armouring.

The cable is easy to strip, which makes it easy to use.

VULTA Dca meets fire grade Dca-s2,d2,a3 according to NEN-EN 50575 for use in buildings with a normal fire risk according to NEN 8012.

Data sheet: https://datasheet.draka.com/pdf/datasheet/en/298161/NL30_VULTA_S2

Product specification

Conductor material: Copper, cl 2 = stranded

Conductor surface: Bare

Core insulation material: XLPE

Core identification (acc. HD 308 S2): Yes

Armouring/reinforcement: Wire

Armouring/reinforcement material: Copper and galvanised steel

Material inner sheath: Polyvinyl chloride (PVC)

Material outer sheath: Polyvinyl chloride (PVC)

Cable shape: Round

With rodent protection: Yes

Materials	kg	%
Metal - Copper	0.9808	51.98
Metal - Steel	0.2742	14.53
Plastic - Polyethylene	0.09687	5.13
Plastic - Polyvinyl chloride (PVC)	0.4986	26.42
Tape	0.03645	1.93
Total	1.89	100.00

Packaging	kg	%
Packaging - Wooden drums	0.14	100.00
Total incl. packaging	2.03	100.00

Technical data:

External code: 835145NN

SAP code: 20183050

DOP code: 1013594

Certifications and approvals:

KEMA-KEUR

REACH Regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals.

RoHS Restriction of hazardous substances directive

Standards:

HD 604-4-D

K42C-1-4-D

NEN 3617

Market:

The Netherlands

Reference service life, product

30 years. Standard lifetime for residential/tertiary/industrial building applications, provided in appendix 1 of PSR for wires, cables, and accessories of PEP Ecopassport.

Reference service life, building or construction works

30 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 835145NN VULTA Dca 0,6/1kV gy# 4x25/16 mm²

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: 01/2024 - 12/2024. This correspond to 12 months/ a year of production.

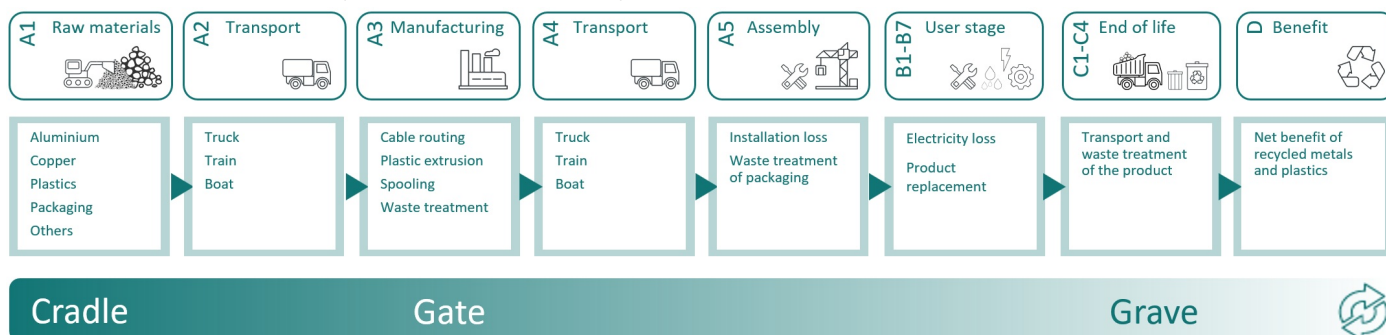
Materials	Source	Data quality	Year
Metal - Copper	Modified ecoinvent 3.6	Database	2019
Metal - Steel	ecoinvent 3.6	Database	2019
Packaging - Wooden drums	Modified ecoinvent 3.6	Supplier data + database	2019
Plastic - Polyethylene	ecoinvent 3.6	Database	2019
Plastic - Polyvinyl chloride (PVC)	ecoinvent 3.6	Database	2019
Tape	Modified: 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:

Fire properties:

Flame retardant: In accordance with EN 13501-6

CPR Euroclass reaction to fire: Dca

CPR Euroclass smoke development: s2

CPR Euroclass flaming particles: d2

CPR Euroclass acidity: a3

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 transport 150km from warehouse to the Dutch market is considered.

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.

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 30 years reference service life of the cable in these modules.

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 = 30 years (according to appendix 1 of the PSR)
- Number of conductors = 4 units
- Use rate = 70 percent (according to appendix 1 of the PSR)
- Linear conductor resistivity = 0,000727 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 = 100 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)
Truck, 16-32tonnes, EI 375kWh with RER electricity mix, electrical (km) - Europe	38.0 %	26.10	1.360	kWh/tkm	35.50
Truck, over 32 tonnes, EURO 6 (km) - Europe	53.3 %	123.90	0.023	l/tkm	2.85
Assembly (A5)	Unit	Value			
Waste, packaging, wooden drums, reusable, 0% recycled content, to average treatment (kg) - A5 with average transport	kg	0.14			
Product loss during installation (percentage of cable)	Units	0.02			
Operational energy (B6)	Unit	Value			
Electricity, European average (kWh)	kWh	0.535			
Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, over 32 tonnes, EURO 6 (km) - Europe	53.3 %	100.00	0.023	l/tkm	2.30
Waste processing (C3)	Unit	Value			
Waste treatment of polyethylene (PE), incineration with energy recovery and fly ash extraction (kg)	kg	0.04844			
Copper to recycling (kg)	kg	0.5885			
Waste treatment of plastic mixture, incineration with energy recovery and fly ash extraction (kg)	kg	0.1109			
Waste treatment of non-hazardous waste, incineration with energy recovery and fly ash extraction (kg)	kg	0.01823			
Steel to recycling (kg)	kg	0.2194			
Waste treatment of polyvinylchloride (PVC), incineration with energy recovery and fly ash extraction (kg)	kg	0.1384			

Disposal (C4)	Unit	Value			
Landfilling of ashes from incineration of Polyethylene (PE), process per kg ashes and residues (kg)	kg	0.001707			
Landfilling of plastic mixture (kg)	kg	0.2977			
Landfilling of copper (kg)	kg	0.3923			
Landfilling of ashes from incineration of Plastic mixture, process per kg ashes and residues (kg)	kg	0.003876			
Landfilling of ashes from incineration of Non-hazardous waste, process per kg ashes and residues (kg)	kg	0.004453			
Landfilling of non-hazardous waste (kg)	kg	0.01823			
Landfilling of steel (kg)	kg	0.05485			
Landfilling of ashes from incineration of Polyvinylchloride (PVC), process per kg ashes and residues (kg)	kg	0.02205			

Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of electricity (MJ)	MJ	0.4208			
Substitution of thermal energy, district heating (MJ)	MJ	6.37			
Substitution of primary copper with net scrap (kg)	kg	0.2354			
Substitution of primary steel with net scrap (kg)	kg	0.2194			

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	6.14E+00	1.59E-01	1.56E-01	3.31E-02	3.41E-01	0	0	0
	GWP-fossil	kg CO ₂ -eq	6.29E+00	1.59E-01	1.46E-01	3.29E-02	1.51E-01	0	0	0
	GWP-biogenic	kg CO ₂ -eq	-1.58E-01	5.97E-05	9.97E-03	2.50E-04	1.90E-01	0	0	0
	GWP-luluc	kg CO ₂ -eq	8.86E-03	7.09E-05	1.08E-05	3.21E-05	1.81E-04	0	0	0
	ODP	kg CFC11 -eq	8.92E-07	3.53E-08	1.39E-08	5.49E-09	1.99E-08	0	0	0
	AP	mol H ⁺ -eq	3.85E-01	1.73E-03	1.36E-04	1.42E-04	7.77E-03	0	0	0
	EP-FreshWater	kg P -eq	3.26E-03	1.10E-06	4.43E-07	1.01E-06	6.52E-05	0	0	0
	EP-Marine	kg N -eq	1.67E-02	4.08E-04	5.71E-05	2.64E-05	3.59E-04	0	0	0
	EP-Terrestrial	mol N -eq	2.63E-01	4.55E-03	4.53E-04	2.95E-04	5.53E-03	0	0	0
	POCP	kg NMVOC -eq	7.08E-02	1.27E-03	1.42E-04	1.15E-04	1.49E-03	0	0	0
	ADP-minerals&metals ¹	kg Sb-eq	9.23E-03	3.52E-06	1.58E-07	6.39E-07	1.85E-04	0	0	0
	ADP-fossil ¹	MJ	9.30E+01	2.30E+00	1.54E+00	5.81E-01	2.01E+00	0	0	0
	WDP ¹	m ³	2.00E+02	1.80E+00	2.63E+01	2.75E-01	4.90E+00	0	0	0

Indicator		Unit	B4	B5	B6	B7	C1	C2	C3	C4	D
	GWP-total	kg CO ₂ -eq	0	0	2.29E-01	0	0	1.77E-02	7.15E-01	6.05E-02	-8.46E-01
	GWP-fossil	kg CO ₂ -eq	0	0	2.27E-01	0	0	1.77E-02	6.86E-01	4.67E-02	-8.41E-01
	GWP-biogenic	kg CO ₂ -eq	0	0	1.60E-03	0	0	7.56E-06	2.89E-02	1.38E-02	-2.82E-03
	GWP-luluc	kg CO ₂ -eq	0	0	5.28E-04	0	0	5.38E-06	2.30E-05	3.90E-06	-1.97E-03
	ODP	kg CFC11 -eq	0	0	1.92E-08	0	0	4.26E-09	9.85E-09	3.14E-09	-2.69E-03
	AP	mol H ⁺ -eq	0	0	1.32E-03	0	0	5.68E-05	2.41E-04	9.02E-05	-9.60E-02
	EP-FreshWater	kg P -eq	0	0	2.42E-05	0	0	1.40E-07	8.84E-07	3.15E-07	-6.55E-04
	EP-Marine	kg N -eq	0	0	1.68E-04	0	0	1.24E-05	7.75E-05	8.88E-05	-4.23E-03
	EP-Terrestrial	mol N -eq	0	0	2.07E-03	0	0	1.39E-04	8.18E-04	3.50E-04	-6.38E-02
	POCP	kg NMVOC -eq	0	0	5.26E-04	0	0	5.45E-05	2.15E-04	1.10E-04	-1.78E-02
	ADP-minerals&metals ¹	kg Sb-eq	0	0	1.66E-06	0	0	3.15E-07	6.21E-07	9.04E-08	-5.34E-04
	ADP-fossil ¹	MJ	0	0	4.68E+00	0	0	2.87E-01	4.14E-01	2.55E-01	-7.58E+00
	WDP ¹	m ³	0	0	7.04E+01	0	0	2.20E-01	7.71E+00	5.10E+00	3.67E+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	8.99E-07	7.09E-09	1.13E-09	3.23E-09	1.87E-08	0	0	0
 IRP ²	kgBq U235 -eq	2.69E-01	1.00E-02	1.11E-03	2.98E-03	5.91E-03	0	0	0
 ETP-fw ¹	CTUe	3.13E+03	1.62E+00	4.36E-01	3.09E-01	6.86E+01	0	0	0
 HTP-c ¹	CTUh	6.69E-08	0.00E+00	3.40E-11	1.06E-10	1.35E-09	0	0	0
 HTP-nc ¹	CTUh	5.14E-06	1.42E-09	6.85E-10	5.16E-10	1.03E-07	0	0	0
 SQP ¹	dimensionless	7.03E+01	1.30E+00	4.22E-02	5.95E-01	1.49E+00	0	0	0

Indicator	Unit	B4	B5	B6	B7	C1	C2	C3	C4	D
 PM	Disease incidence	0	0	3.47E-09	0	0	1.62E-09	1.40E-09	1.50E-09	-2.27E-07
 IRP ²	kgBq U235 -eq	0	0	4.10E-02	0	0	1.25E-03	1.89E-03	1.53E-03	-8.75E-03
 ETP-fw ¹	CTUe	0	0	3.28E+00	0	0	2.10E-01	1.81E+01	2.77E+02	-8.85E+02
 HTP-c ¹	CTUh	0	0	9.10E-11	0	0	0.00E+00	5.80E-11	2.10E-11	-1.35E-08
 HTP-nc ¹	CTUh	0	0	3.16E-09	0	0	2.03E-10	4.98E-09	4.68E-10	-1.03E-06
 SQP ¹	dimensionless	0	0	1.13E+00	0	0	3.29E-01	1.41E-01	6.40E-01	-1.47E+01

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	1.35E+01	2.88E-02	2.83E+00	5.03E-02	3.30E-01	0	0	0
	PERM	MJ	1.76E+00	0.00E+00	0.00E+00	0.00E+00	-1.73E+00	0	0	0
	PERT	MJ	1.52E+01	2.88E-02	2.83E+00	5.03E-02	-1.40E+00	0	0	0
	PENRE	MJ	7.80E+01	2.30E+00	1.54E+00	4.87E-01	1.71E+00	0	0	0
	PENRM	MJ	1.50E+01	0.00E+00	-2.79E-04	0.00E+00	5.54E-03	0	0	0
	PENRT	MJ	9.30E+01	2.30E+00	1.54E+00	4.87E-01	1.72E+00	0	0	0
	SM	kg	3.83E-01	0.00E+00	0.00E+00	0.00E+00	7.65E-03	0	0	0
	RSF	MJ	8.80E-02	9.87E-04	5.50E-04	1.56E-04	1.85E-03	0	0	0
	NRSF	MJ	5.67E-01	4.46E-03	1.35E-03	5.24E-04	1.18E-02	0	0	0
	FW	m³	1.09E-01	2.16E-04	2.29E-02	2.06E-04	2.87E-03	0	0	0

Indicator		Unit	B4	B5	B6	B7	C1	C2	C3	C4	D
	PERE	MJ	0	0	9.07E-01	0	0	3.61E-03	4.90E-02	2.75E-02	-5.44E+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	9.07E-01	0	0	3.61E-03	4.90E-02	2.75E-02	-5.44E+00
	PENRE	MJ	0	0	4.69E+00	0	0	2.87E-01	4.14E-01	2.55E-01	-7.58E+00
	PENRM	MJ	0	0	0.00E+00	0	0	0.00E+00	-1.47E+01	0.00E+00	0.00E+00
	PENRT	MJ	0	0	4.69E+00	0	0	2.87E-01	-1.43E+01	2.55E-01	-7.58E+00
	SM	kg	0	0	0.00E+00	0	0	0.00E+00	0.00E+00	0.00E+00	1.65E-01
	RSF	MJ	0	0	6.61E-02	0	0	1.26E-04	8.97E-04	5.81E-04	2.38E-02
	NRSF	MJ	0	0	1.57E-02	0	0	4.23E-04	0.00E+00	7.72E-04	9.43E-02
	FW	m³	0	0	3.97E-03	0	0	3.26E-05	9.08E-03	3.17E-04	-1.82E-02

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	5.48E-02	1.14E-04	1.98E-02	4.66E-04	1.99E-03	0	0	0
	NHWD	kg	1.86E+00	8.64E-02	5.64E-02	5.60E-02	1.98E-01	0	0	0
	RWD	kg	2.52E-04	1.57E-05	1.48E-06	3.56E-06	5.53E-06	0	0	0

Indicator		Unit	B4	B5	B6	B7	C1	C2	C3	C4	D
	HWD	kg	0	0	7.05E-04	0	0	1.57E-05	0.00E+00	2.41E-02	-7.65E-03
	NHWD	kg	0	0	1.59E-02	0	0	2.49E-02	0.00E+00	7.92E-01	-3.82E-01
	RWD	kg	0	0	3.35E-05	0	0	1.96E-06	0.00E+00	1.61E-06	-7.74E-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	4.28E-02	0.00E+00	1.70E-02	0	0	0
	MER	kg	0.00E+00	0.00E+00	8.60E-02	0.00E+00	1.48E-01	0	0	0
	EEE	MJ	0.00E+00	0.00E+00	5.32E-02	0.00E+00	1.07E-01	0	0	0
	EET	MJ	0.00E+00	0.00E+00	8.06E-01	0.00E+00	1.62E+00	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	8.08E-01	2.67E-05	-6.44E-03
	MER	kg	0	0	0.00E+00	0	0	0.00E+00	3.16E-01	6.53E-07	-8.48E-04
	EEE	MJ	0	0	0.00E+00	0	0	0.00E+00	4.21E-01	4.24E-05	-2.08E-03
	EET	MJ	0	0	0.00E+00	0	0	0.00E+00	6.37E+00	6.41E-04	-3.14E-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	5.25E-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, hydropower, Norway (kWh)	ecoinvent 3.6	6.29	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	6.33E+00	1.59E-01	1.53E-01	3.29E-02	1.53E-01	0	0	0	
Indicator	Unit	B4	B5	B6	B7	C1	C2	C3	C4	D
GWPIOBC	ka CO ₂ -eq	0	0	2.29E-01	0	0	1.77E-02	7.10E-01	6.08E-02	-5.46E-01

GWP-IOBC: 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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