

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

SURFACE-TREATED CLADDING OF SPRUCE



Owner of the declaration:

Bergene Holm AS

Product:

SURFACE-TREATED CLADDING OF SPRUCE

Declared unit:

1 m²

This declaration is based on Product Category Rules:

EN 15804:2012+A2:2019 serves as core PCR
NPCR 015:2021 Part B for wood and wood-based
products for use in construction

Program operator:

EPD-Global

Declaration number:

NEPD-17253-21588

Issue date:

19.08.2026

Valid to:

19.08.2031

EPD software:

LCAno EPD generator ID: 1541326

General information

Product

SURFACE-TREATED CLADDING OF SPRUCE

Program operator:

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

Declaration number:

NEPD-17253-21588

This declaration is based on Product Category Rules:

EN 15804:2012+A2:2019 serves as core PCR
NPCR 015:2021 Part B for wood and wood-based products for use in construction

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:

1 m² SURFACE-TREATED CLADDING OF SPRUCE

Declared unit with option:

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

Functional unit:

1 square metre of painted exterior cladding with a life time expectancy of 60 years

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.

Third party verifier:

Alexander Borg, Asplan Viak AS

(no signature required)

Owner of the declaration:

Bergene Holm AS
Contact person: Hege Voll Midtgaard
Phone: +4798250304
e-mail: hvm@bergeneholm.no

Manufacturer:

Bergene Holm AS
Gamle Ravei 321 Amundrød
3270 Larvik, Norway

Place of production:

Bergene Holm Avd. Skarnes
Sandervegen 451
2100 Skarnes, Norway

Management system:

Miljøfyrtårn

Organisation no:

NO 812 750 062

Issue date:

19.08.2026

Valid to:

19.08.2031

Year of study:

2025

Comparability:

EPDs of construction products may not be comparable if they do not comply with EN 15804 and are not viewed 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.

Developer of EPD: Johann Kristian Næss

Reviewer of company-specific input data and EPD: Børge Heggen
Johansen, Energiråd AS

Approved:



Håkon Hauan, CEO EPD-Global

Product

Product description:

Surface-treated spruce cladding is used as exterior façade cladding to protect underlying wall structures against climatic exposure. Typical surface treatments include priming, or a combination of priming and stain or paint systems.

Product specification

Manufactured in Norway from Norwegian PEFC-certified timber. Sawing, drying, grading, and surface treatment are performed according to applicable technical specifications. The product complies with NS-EN 14915 and SN/TS 3186. Surface treatment is applied in accordance with applicable standards and coating supplier recommendations.

Materials	Value	Unit
Wood	8,90	kg
Surface treatment	0,02-0,20	kg
Plastic packaging	0,01	kg
Wood packaging	0,02	kg
Sum	9	kg

Technical data:

Assumed density is based on a basic density of approx. 375 kg for spruce, which gives a density of 470 at 18% moisture content relative to the dry mass wood, which sets the assumptions of biogenic carbon content. The cladding is tongue-and-groove, dimension 19×148 mm. Material consumption is 0.020 m³ of planed timber per m² cladding. The cladding is delivered with different paint systems. The data which represents all systems are Teknol 3881 primer and Nordica Eko 3330 topcoat, both white pigments, at amounts averaged for all 2-3 layer surface treatment systems delivered on claddings by Bergene holm.

Market:

Norway and export markets.

Reference service life, product

60 years.

Reference service life, building or construction works

60 years or the service life of the building.

LCA: Calculation rules

Declared unit:

1 m² SURFACE-TREATED CLADDING OF SPRUCE

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.

Applied cut-off:

- Waste treatment of electronic waste in A3.
- Infrastructure on buildings and integrated machinery in A3 (except for furnace).
- Transport of paint added in A5.
- Impacts and benefits from paint on cladding in module D.

Allocation:

Allocation is made in accordance with the provisions of EN 15804. In the forestry, harvester and forwarder processes are not considered joint-co processes and are sub-divided for all relevant assortments. For all other forestry management operations in the forest, these are allocated to the primary product of industrial roundwood (sawlog, pulpwood) only and nothing to energy wood or forest residues. At sawmills, input energy, water, waste, auxiliary materials and internal transport are divided into sub-processes and then allocated according to income between the main and by-products in intermediary processes. Environmental impact and resource consumption for the primary production of recycled materials is allocated to the original product system. Allocation is made in accordance with the provisions of EN 15804. In the forestry, harvester and forwarder processes are not considered joint-co processes and are sub-divided for all relevant assortments. For all other forestry management operations in the forest, these are allocated to the primary product of industrial roundwood (sawlog, pulpwood) only and nothing to energy wood or forest residues. At sawmills and further processing in A3, input energy, water, waste, auxiliary materials and internal transport are divided into sub-processes and then allocated according to income between the main and by-products in intermediary processes.

Different interpretations of the regulations have led to different practical methodologies in Europe, majorly in Nordic countries. This life cycle assessment follows "school 1" as described by EPD-Norway (2024), but a specific consumption of wood by-products for bioenergy purposes in the drying of sawn timber has been made instead of using 0,15 m³/m³ sawn timber as proxy.

Data quality:

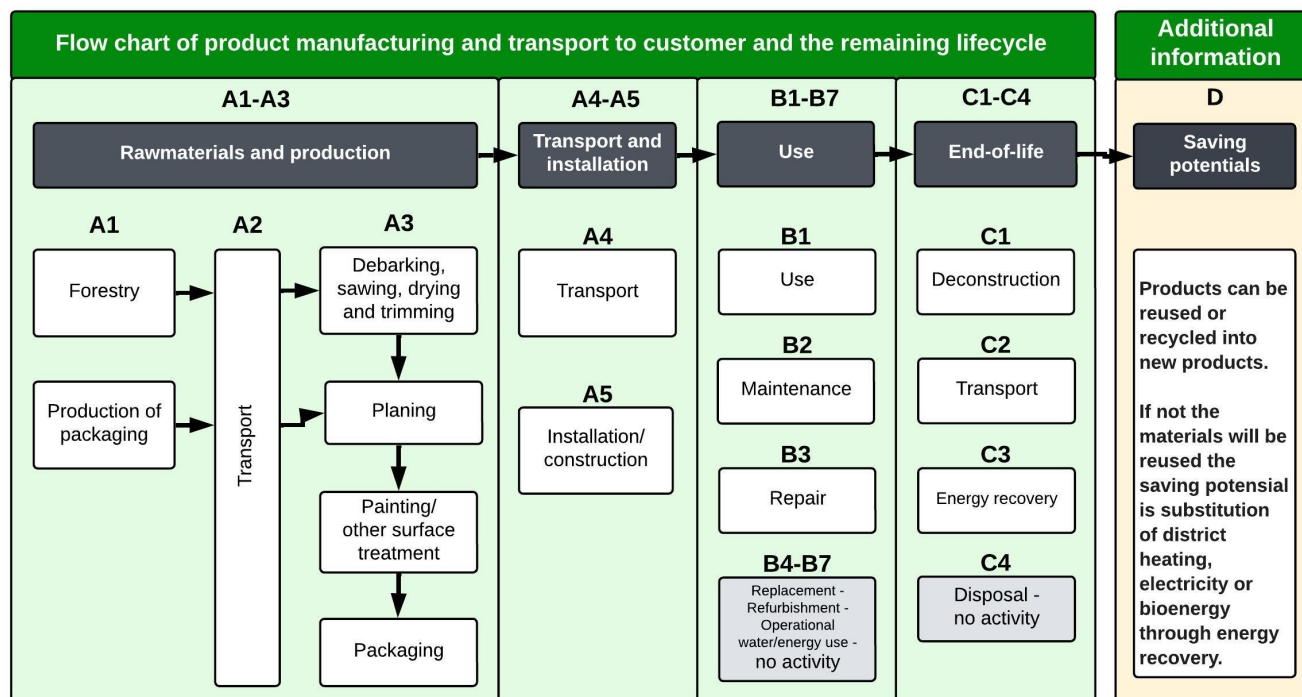
Specific data for the product composition are provided by the manufacturer. The data represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on EPDs according to EN 15804 and different LCA databases. The data quality of the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

Materials	Source	Data quality	Year
Packaging - Wood	Modified ecoinvent 3.7.1	Database	2020
Paint	NEPD-3352-1986-EN	EPD	2021
Paint	NEPD-3354-1986-EN	EPD	2021
Plastemballasje	ecoinvent 3.6	Database	2019
Wood	NEPD-12187-12243	EPD	2019
Wood	NEPD-16769-20833	EPD	2025

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:



Additional technical information:

Certifications and environmental information relevant to the declared product:

- PEFC ST 2002:2013 - Chain of Custody - nr: SA-PEFC-COC-004597
- FSC Chain of Custody - nr: FSC-C123829

LCA: Scenarios and additional technical information

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

Scenarios are based on domestic installation.

A4 - 300 km road transport assumed, 270 km large truck >32 tons, 30 km unspecified capacity.

A5 - 1 MJ electricity

B2 - 10 years interval for adding top layer on cladding, including cleaning (Plesser, 2013)

B3 - 10% of cladding needing repair within a lifetime of 60 years

C1 - 1 MJ electricity per m3 of wood during demolition activities

C2 - 85 km assumed for transport of building waste (Raadal, 2009)

C3- conservative scenario for incineration of D.U. with energy recovery. However, A high share of the wood are recovered for as a material (SSB).

The product can be reused as is or it can be used as an input factor in other products such as building boards or paper products. If this is not appropriate, the wood will be sent for energy recovery.

C4 - Some of the C4 activities might be modelled in C3, but are not excluded.

Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Lastebil med henger, EURO 6 (kgkm)	55.0 %	270.00	0.023	l/tkm	6.21
Lastebil, uspesifisert kapasitet, EURO 6 (kgkm)	46.1 %	30.00	0.034	l/tkm	1.02
Assembly (A5)	Unit	Value			
Elektrisitet, Norge (MJ)	MJ	0.019			
Avfallsbehandling plast (kg) dekkplast	kg	0.00945			
Avfallsbehandling treemballasje, inkl. biogent karbon (kg)	kg	0.0252			
NORDICA EKO 3330-03 BASE 1 18L, 52% vann, tørrvekt (kg) inkl. 5% svinn	kg	0.052			
NORDICA EKO 3330-03 BASE 1 18L, 52% vann, tørrvekt (kg) For svinn	kg	0.0026			
Materialsvinn produkt, installasjon, inkludert avfallshåndtering (andel)	Units	0.05			
Maintenance (B2)	Unit	Value			
Maling, 60% vann, våtvekt (kg) inkl. 5% svinn	kg	0.50			
Vaskemiddel, Husvask (kg)	kg	0.0159			
Lastebil, uspesifisert kapasitet (kgkm)	kgkm	90.60			
Vann, kommunalt (kg)	kg	0.317			
Maling, 60% vann, våtvekt (kg) - Svinn B2	kg	0.025			
Avfallsbehandling maling, 60% vann, forbrenning i Norge (kg)	kg	0.525			
Repair (B3)	Unit	Value			
Materialsvinn produkt, bruksfase, inkludert avfallshåndtering (andel)	Units	0.10			
De-construction demolition (C1)	Unit	Value			
Elektrisitet, Norge (MJ)	MJ	0.019			
Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Lastebil, 16-32 tonn, EURO 6 (kgkm)	36.7 %	85.00	0.043	l/tkm	3.66
Waste processing (C3)	Unit	Value			
Avfallsbehandling ubehandlet tre, 0% vann, forbrenning, NorgeTI (kg)	kg	7.57			
Avfallsbehandling maling, 0% vann, forbrenning, Norge - C3 (kg)	kg	0.071			
Disposal (C4)	Unit	Value			
Avfallsbehandling ubehandlet tre, 0% vann, deponering av aske, Norge - C4 (kg)	kg	7.57			
Avfallsbehandling maling, 0% vann, deponering av aske, Norge - C4 (kg)	kg	0.071			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of thermal energy, district heating (MJ)	MJ	102.37			
Substitution of electricity (MJ)	MJ	14.75			
Substitution of electricity (MJ)	MJ	0.2666			
Substitution of thermal energy, district heating (MJ)	MJ	1.85			
Avfallsbehandling maling, 0% vann, substitusjon av elektrisitet og varme, Norge - D (kg)	kg	0.281			

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-A3	A4	A5	B1	B2	B3	B4	
 GWP-total	kg CO ₂ -eq	-1.29E+01	2.89E-01	3.63E-01	0	1.72E+00	2.06E-01	0	
 GWP-fossil	kg CO ₂ -eq	1.05E+00	2.88E-01	3.25E-01	0	1.47E+00	2.05E-01	0	
 GWP-biogenic	kg CO ₂ -eq	-1.39E+01	1.80E-04	3.71E-02	0	3.49E-03	1.97E-04	0	
 GWP-luluc	kg CO ₂ -eq	3.57E-03	1.11E-04	2.30E-04	0	2.50E-01	3.99E-04	0	
 ODP	kg CFC11 -eq	9.68E-08	1.30E-08	3.10E-08	0	1.05E-07	1.76E-08	0	
 AP	mol H+ -eq	8.31E-03	7.04E-04	2.11E-03	0	1.35E-02	1.29E-03	0	
 EP-FreshWater	kg P -eq	1.26E-04	1.80E-05	5.99E-05	0	7.04E-05	2.07E-05	0	
 EP-Marine	kg N -eq	2.84E-03	1.78E-04	4.27E-04	0	1.69E-03	4.22E-04	0	
 EP-Terrestrial	mol N -eq	3.18E-02	1.94E-03	4.57E-03	0	1.08E-02	4.66E-03	0	
 POCP	kg NMVOC -eq	9.17E-03	1.13E-03	1.50E-03	0	4.11E-03	1.39E-03	0	
 ADP-minerals&metals ¹	kg Sb-eq	6.24E-06	1.69E-06	1.50E-06	0	9.02E-06	1.32E-06	0	
 ADP-fossil ¹	MJ	1.59E+01	4.35E+00	5.45E+00	0	1.47E+01	2.82E+00	0	
 WDP ¹	m ³	1.24E+01	5.55E-01	5.84E+00	0	1.00E+00	2.10E+00	0	

Indicator	Unit	B5	B6	B7	C1	C2	C3	C4	D
 GWP-total	kg CO ₂ -eq	0	0	0	1.28E-04	1.26E-01	1.41E+01	4.56E-03	-6.96E-01
 GWP-fossil	kg CO ₂ -eq	0	0	0	1.24E-04	1.26E-01	2.64E-01	4.56E-03	-6.72E-01
 GWP-biogenic	kg CO ₂ -eq	0	0	0	3.44E-06	5.20E-05	1.39E+01	2.37E-06	-2.75E-03
 GWP-luluc	kg CO ₂ -eq	0	0	0	5.13E-07	4.47E-05	3.02E-05	7.13E-07	-2.11E-02
 ODP	kg CFC11 -eq	0	0	0	9.00E-12	2.85E-08	6.21E-09	5.38E-10	-4.40E-02
 AP	mol H+ -eq	0	0	0	9.72E-07	3.61E-04	1.43E-03	1.68E-05	-6.11E-03
 EP-FreshWater	kg P -eq	0	0	0	8.95E-09	1.00E-06	1.90E-06	5.92E-08	-1.56E-04
 EP-Marine	kg N -eq	0	0	0	1.07E-07	7.15E-05	6.98E-04	5.44E-06	-1.75E-03
 EP-Terrestrial	mol N -eq	0	0	0	1.39E-06	7.99E-04	7.41E-03	6.15E-05	-1.90E-02
 POCP	kg NMVOC -eq	0	0	0	3.74E-07	3.06E-04	1.80E-03	1.71E-05	-5.28E-03
 ADP-minerals&metals ¹	kg Sb-eq	0	0	0	9.28E-09	3.47E-06	2.63E-07	7.85E-09	-1.87E-05
 ADP-fossil ¹	MJ	0	0	0	1.70E-03	1.90E+00	6.49E-01	4.57E-02	-9.42E+00
 WDP ¹	m ³	0	0	0	2.96E-01	1.84E+00	2.35E-02	2.47E-04	-5.46E+00

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

The LCA results in the EPD are calculated using a specific methodological approach for accounting energy resources, see the additional requirements section for more information. In this EPD the following approach was used:

Additional environmental impact indicators

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4
 PM	Disease incidence	2.20E-07	2.69E-08	3.67E-08	0	6.27E-08	3.08E-08	0
 IRP ²	kgBq U235 -eq	6.19E-02	6.98E-03	2.81E-02	0	4.02E-02	1.07E-02	0
 ETP-fw ¹	CTUe	3.26E+01	8.62E-01	1.43E+01	0	2.78E+01	5.12E+00	0
 HTP-c ¹	CTUh	2.34E-09	0.00E+00	4.21E-10	0	2.54E-09	3.25E-10	0
 HTP-nc ¹	CTUh	4.01E-08	2.99E-09	2.36E-08	0	2.52E-08	8.48E-09	0
 SQP ¹	dimensionless	4.52E+01	4.29E+00	3.56E+00	0	1.92E+01	5.60E+00	0

Indicator	Unit	B5	B6	B7	C1	C2	C3	C4	D
 PM	Disease incidence	0	0	0	7.00E-12	7.69E-09	1.72E-08	2.25E-10	-3.14E-07
 IRP ²	kgBq U235 -eq	0	0	0	3.08E-05	8.30E-03	1.80E-03	2.12E-04	-8.32E-02
 ETP-fw ¹	CTUe	0	0	0	7.74E-03	1.41E+00	1.98E+00	7.81E-02	-4.72E+01
 HTP-c ¹	CTUh	0	0	0	0.00E+00	0.00E+00	4.85E-10	7.00E-12	-9.89E-10
 HTP-nc ¹	CTUh	0	0	0	9.00E-12	1.54E-09	1.64E-08	1.34E-10	-5.54E-08
 SQP ¹	dimensionless	0	0	0	8.56E-04	1.33E+00	1.52E+00	7.93E-02	-6.13E+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-A3	A4	A5	B1	B2	B3	B4	
 PERE	MJ	3.77E+01	6.99E-02	9.78E+00	0	3.41E+00	1.93E+01	0	
 PERM	MJ	1.46E+02	0.00E+00	-4.08E-01	0	0.00E+00	-2.03E-10	0	
 PERT	MJ	1.84E+02	6.99E-02	9.38E+00	0	3.41E+00	1.93E+01	0	
 PENRE	MJ	1.24E+01	4.35E+00	5.31E+00	0	1.51E+01	2.53E+00	0	
 PENRM	MJ	1.55E+00	0.00E+00	4.62E-01	0	0.00E+00	-6.77E-03	0	
 PENRT	MJ	1.39E+01	4.35E+00	5.77E+00	0	1.51E+01	2.53E+00	0	
 SM	kg	9.99E-07	0.00E+00	5.00E-08	0	0.00E+00	1.05E-07	0	
 RSF	MJ	7.48E-03	3.08E-04	1.69E-02	0	1.14E-04	3.55E-02	0	
 NRSF	MJ	1.81E-02	1.01E-03	1.17E-02	0	3.48E-04	2.44E-02	0	
 FW	m ³	2.32E-01	6.24E-04	1.23E-01	0	2.12E-02	3.59E-02	0	

Indicator	Unit	B5	B6	B7	C1	C2	C3	C4	D
 PERE	MJ	0	0	0	2.20E-02	2.72E-02	1.46E+02	2.46E-03	-6.39E+01
 PERM	MJ	0	0	0	0.00E+00	0.00E+00	-1.46E+02	0.00E+00	0.00E+00
 PERT	MJ	0	0	0	2.20E-02	2.72E-02	-1.51E-01	2.46E-03	-6.39E+01
 PENRE	MJ	0	0	0	1.70E-03	1.90E+00	1.37E+00	4.57E-02	-9.41E+00
 PENRM	MJ	0	0	0	0.00E+00	0.00E+00	-2.08E+00	0.00E+00	0.00E+00
 PENRT	MJ	0	0	0	1.70E-03	1.90E+00	-7.10E-01	4.57E-02	-9.41E+00
 SM	kg	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
 RSF	MJ	0	0	0	1.73E-05	9.73E-04	3.29E-01	0.00E+00	-7.95E-01
 NRSF	MJ	0	0	0	4.30E-05	3.48E-03	2.09E-01	0.00E+00	-3.65E+00
 FW	m ³	0	0	0	1.64E-04	2.03E-04	2.71E-03	4.22E-05	-1.31E-01

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-A3	A4	A5	B1	B2	B3	B4
	HWD	kg	1.62E-02	5.52E-03	5.94E-03	0	1.11E-02	1.25E-02	0
	NHWD	kg	2.04E-01	1.44E-01	3.50E-02	0	5.12E-01	5.37E-02	0
	RWD	kg	4.08E-05	4.88E-06	1.18E-05	0	4.31E-05	7.28E-06	0

Indicator		Unit	B5	B6	B7	C1	C2	C3	C4	D
	HWD	kg	0	0	0	1.09E-06	9.80E-05	8.35E-04	9.61E-02	-1.27E-02
	NHWD	kg	0	0	0	1.31E-04	9.24E-02	2.38E-02	3.72E-02	-6.97E-01
	RWD	kg	0	0	0	1.52E-08	1.29E-05	2.02E-06	2.76E-07	-4.88E-05

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-A3	A4	A5	B1	B2	B3	B4
	CRU	kg	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0
	MFR	kg	1.45E-02	0.00E+00	5.55E-03	0	0.00E+00	2.00E-03	0
	MER	kg	1.91E-02	0.00E+00	4.84E-01	0	0.00E+00	9.66E-01	0
	EEE	MJ	2.60E-02	0.00E+00	7.44E-01	0	2.07E-01	1.56E+00	0
	EET	MJ	2.81E-01	0.00E+00	5.16E+00	0	1.43E+00	1.08E+01	0

Indicator		Unit	B5	B6	B7	C1	C2	C3	C4	D
	CRU	kg	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MFR	kg	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MER	kg	0	0	0	0.00E+00	0.00E+00	9.16E+00	0.00E+00	0.00E+00
	EEE	MJ	0	0	0	0.00E+00	0.00E+00	1.48E+01	0.00E+00	-2.76E-01
	EET	MJ	0	0	0	0.00E+00	0.00E+00	1.03E+02	0.00E+00	-1.92E+00

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	3.78E+00
Biogenic carbon content in accompanying packaging	kg C	1.18E-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

No electricity or biogas based on certification schemes (e.g., Guarantees of Origin or equivalent) was used in the manufacturing phase (A3) of the product(s) declared in this EPD.

Dangerous substances

The product contains no substances on the REACH Candidate list at or above 100 ppm, 0,01 % by weight.

Indoor environment

Not relevant.

Additional Environmental Information

Additional environmental impact indicators required in NPCR Part A for construction products

Additional environmental impact indicators required in NCR Part A for construction products									
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	
GWPIOBC	kg CO ₂ -eq	1.05E+00	2.89E-01	3.26E-01	0	1.72E+00	2.06E-01	0	
Indicator	Unit	B5	B6	B7	C1	C2	C3	C4	D
GWPIOBC	kg CO ₂ -eq	0	0	0	1.28E-04	1.26E-01	2.66E-01	4.56E-03	-6.87E-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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