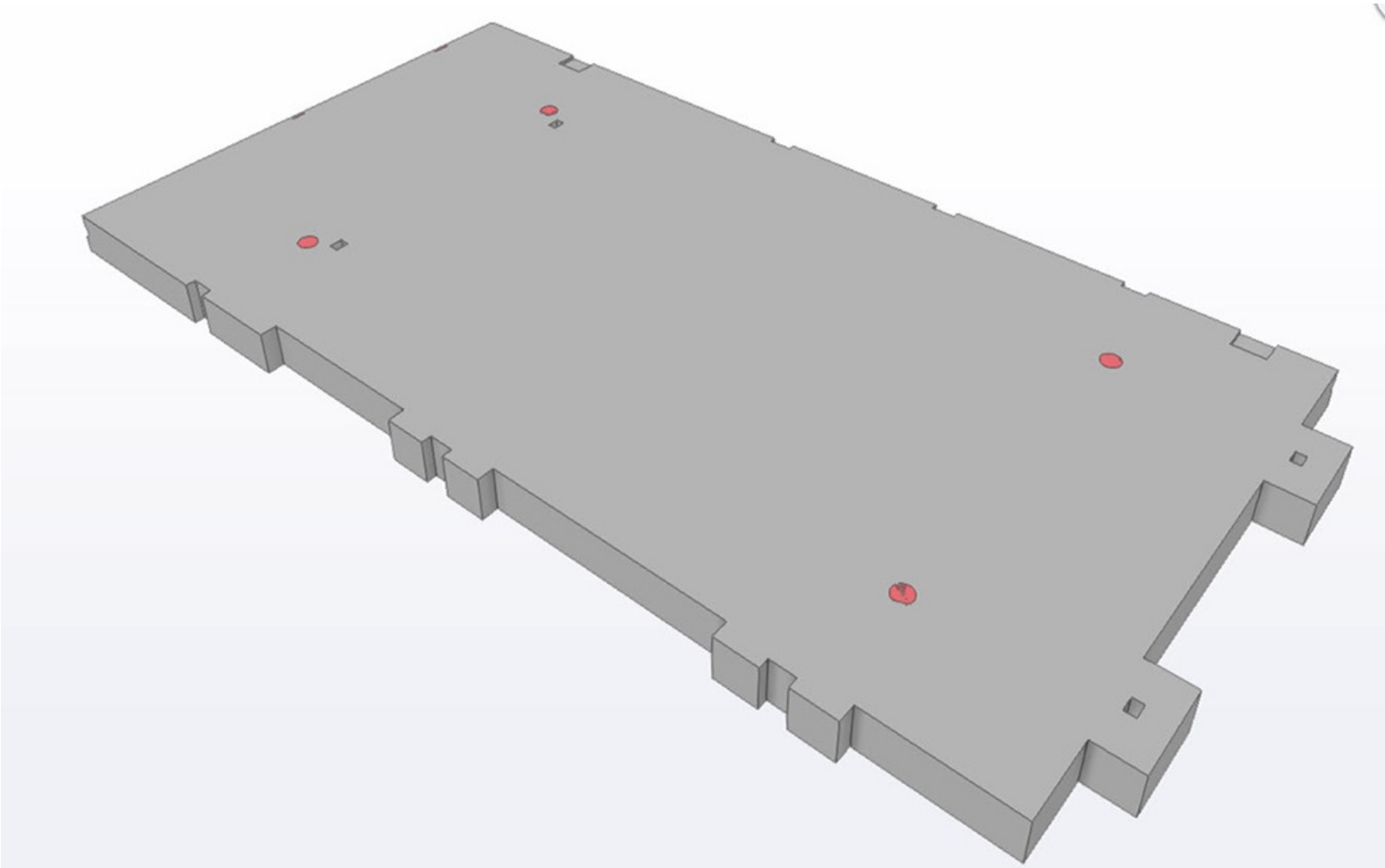
epd-global
Powered by EPD-Norway

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Massivbjälklag Förspänd Uddevalla Nivå 3



eVOBUILD

Heidelberg Materials

Owner of the declaration:
Heidelberg Materials Precast Contiga AB – Concrete

Product:
Massivbjälklag Förspänd Uddevalla Nivå 3

Declared unit:
1 tonne

This declaration is based on Product Category Rules:
EN 15804:2012+A2:2019 serves as core PCR
NPCR 020:2021 Part B for Concrete and concrete elements

Program operator:
EPD-Global

Declaration number:
NEPD-17591-21992

Issue date:
07.09.2026

Valid to:
07.09.2031

EPD software:
LCAno EPD generator ID: 1753967

EPD-Global

General information

Product

Massivbjälklag Förspänd Uddevalla Nivå 3

Program operator:

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

Declaration number:

NEPD-17591-21992

This declaration is based on Product Category Rules:

EN 15804:2012+A2:2019 serves as core PCR
NPCR 020:2021 Part B for Concrete and concrete elements

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 tonne Massivbjälklag Förspänd Uddevalla Nivå 3

Declared unit with option:

A1, A2, A3, A4, A5, C1, C2, C3, C4, D

Functional unit:

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:

Ellen Soldal, Norsus AS

(no signature required)

Owner of the declaration:

Heidelberg Materials Precast Contiga AB – Concrete
Contact person: Håvard Nyman
e-mail: havard.nyman@heidelbergmaterials.com

Manufacturer:

Heidelberg Materials Precast Contiga AB – Concrete
Vintergatan 7,
761 50 Norrtälje, Sweden
Contact person: Håvard Nyman
e-mail: havard.nyman@heidelbergmaterials.com
Phone: +46 0522 636333

Place of production:

Uddevalla, Heidelberg Materials Precast Contiga AB
Kasenabbvägen 11A
451 50 Uddevalla, Sweden

Management system:

Holds a local environmental diploma and is certified for ISO45001, 14001 and 9001

Organisation no:

556270-5979

Issue date:

07.09.2026

Valid to:

07.09.2031

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.

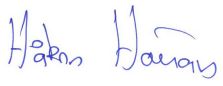
Development and verification of EPD:

The declaration is created using EPD generator v2025.09, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD-Global. NEPDT03

Developer of EPD: Alexander Noré

Reviewer of company-specific input data and EPD: Håvard Nyman

Approved:



Håkon Hauan, CEO EPD-Global

Product

Product description:

A concrete slab element is a flat, horizontal precast concrete piece, essential for creating sturdy floors and ceilings. Engineered for load distribution, it simplifies construction, ensures uniform quality, and provides a solid foundation for any building, complementing its design with durability and cost-effectiveness.

Concrete slabs are 100% recyclable and enable fast, cost-effective and rational progress in the construction project.

Product specification

Materials	kg	%
Additives	29.32	2.93
Aggregate	712.81	71.28
Cement	164.98	16.50
Chemical	0.95	0.095
Metal - Steel	30.44	3.04
Water	61.49	6.15
Total	999.99	100.00

Technical data:

The declared element is a 1-tonne concrete slab, 220 mm thick, made of concrete strength class C45/55 with a water-cement ratio (w/c) of 0.45. It contains an average reinforcement of 29.7 kg per tonne and an average amount of cast-in materials of 0.8 kg per tonne. The declared unit also applies to a wide range of dimensions, assuming average reinforcement and cast-in material quantities.
The cement used is Heidelberg Materials Industricement Skövde CEM II. See NEPD-11497-11391 for reference

Concrete strength C45/55.
Exposure classes up to XC4-XF1.
Life length class up to L100 (100 years).

More technical data and information about load capacitys for the different dimensions is available at Heidelberg Materials Precast Contiga's concrete factory in Uddevalla.

Market:

Sweden

Reference service life, product

Lifetime depends on exposure class. Concrete elements in exposure class XC0 have no limitation in service life

Reference service life, building or construction works

More than 50 years

LCA: Calculation rules

Declared unit:

1 tonne Massivbjälklag Förspänd Uddevalla Nivå 3

Cut-off criteria:

All major raw materials and all the essential energy are included. The production processes for raw materials and energy flows with very small amounts (less than 1%) may not be 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:

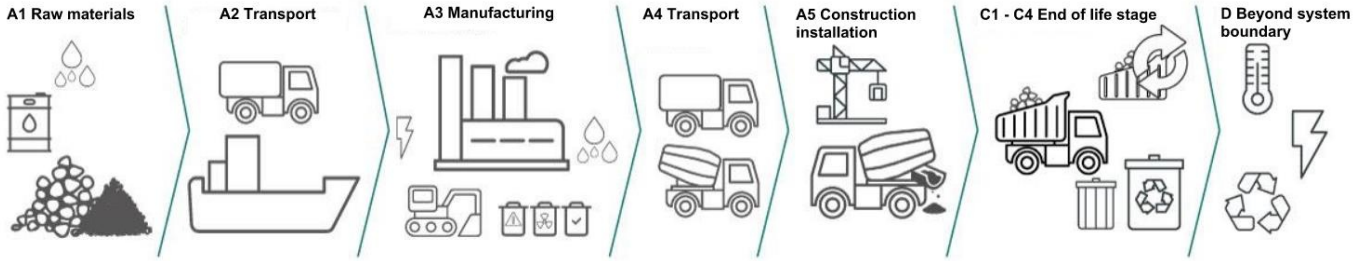
Specific data for the product composition are provided by the manufacturer. The data represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on EPDs according to EN 15804 and different LCA databases. The data quality of the raw materials in A1 is presented in the table below. The LCA modelling follows the “allocation, cut-off by classification” system model, where recycled materials enter the system without upstream environmental burdens and no credits are assigned for materials leaving the system. Life cycle impact assessment results are calculated using the Environmental Footprint (EF) method version 3.1

Materials	Source	Data quality	Year
Additives	EPD-SIK-20250045-IBA1-EN	EPD	2024
Additives	S-P-05377	EPD	2022
Aggregate	ecoinvent 3.6	Database	2019
Cement	NEPD-11497-11391 (Net calculation)	EPD	2025
Chemical	EPD-EFC-20210193-IBG1-EN	EPD	2021
Metal - Steel	ecoinvent 3.6	Database	2019
Metal - Steel	EPD-IES-0000305:006 (S-P-00305)	EPD	2026
Metal - Steel	EPD-IES-0002630:005 (S-P-02630)	EPD	2022
Metal - Steel	S-P-07047	EPD	2023
Water	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	MND	MND	MND	MND	MND	MND	MND	X	X	X	X	X

System boundary:



Additional technical information:

The product can be recycled by crushing

LCA: Scenarios and additional technical information

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

Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, over 32 tonnes, EURO 6 (km)	53.3 %	85.00	0.023	l/tkm	1.96

Assembly (A5)	Unit	Value			
Diesel (L)	L	0.87			

De-construction demolition (C1)	Unit	Value			
Diesel (L)	L	0.87			
Demolition of building per kg of steel, C1 (kg)	kg	27.03			
Demolition of building per kg of cement-based product, C1 (kg)	kg	972.97			

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)	53.3 %	85.00	0.023	l/tkm	1.96

Waste processing (C3)	Unit	Value			
Materials to recycling (kg)	kg	18.11			
Waste treatment of cement-based product after demolition (kg	kg	661.62			

Disposal (C4)	Unit	Value			
Waste, scrap steel, to disposal (kg)	kg	8.92			
Waste, concrete sludge, rest concrete, to disposal (kg)	kg	311.35			

Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of steel (kg)	kg	8.76			
Substitution of stone materials (kg)	kg	661.62			

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	C1	C2	C3	C4	D
	GWP-total	kg CO_2 -eq	1.15E+02	2.21E+00	2.59E+00	7.41E+00	3.08E+00	7.08E+00	7.41E+00	4.76E-01	1.37E+00	-1.12E+01
	GWP-fossil	kg CO_2 -eq	1.14E+02	2.21E+00	2.48E+00	7.40E+00	3.08E+00	7.08E+00	7.40E+00	4.70E-01	1.37E+00	-1.12E+01
	GWP-biogenic	kg CO_2 -eq	3.73E-01	9.40E-04	2.89E-02	3.17E-03	5.76E-04	1.33E-03	3.17E-03	4.06E-03	1.17E-03	-3.55E-02
	GWP-luluc	kg CO_2 -eq	1.20E-01	6.86E-04	8.73E-02	2.26E-03	2.42E-04	5.58E-04	2.26E-03	6.50E-04	2.69E-04	-5.34E-03
	ODP	kg CFC11 -eq	1.29E-06	5.30E-07	8.97E-07	1.79E-06	6.64E-07	1.53E-06	1.79E-06	9.26E-08	6.68E-07	-5.82E-07
	AP	mol H+ -eq	2.15E-01	7.82E-03	1.97E-02	2.38E-02	3.22E-02	7.40E-02	2.38E-02	3.80E-03	1.34E-02	-6.15E-02
	EP-FreshWater	kg P -eq	2.70E-03	1.75E-05	9.84E-05	5.89E-05	1.12E-05	2.58E-05	5.89E-05	2.97E-05	1.02E-05	-6.34E-04
	EP-Marine	kg N -eq	5.61E-02	1.73E-03	6.21E-03	5.22E-03	1.42E-02	3.27E-02	5.22E-03	1.11E-03	5.02E-03	-1.46E-02
	EP-Terrestial	mol N -eq	7.79E-01	1.93E-02	7.14E-02	5.82E-02	1.56E-01	3.56E-01	5.82E-02	1.28E-02	5.53E-02	-1.57E-01
	POCP	kg NMVOC -eq	1.88E-01	7.27E-03	1.88E-02	2.29E-02	4.28E-02	9.86E-02	2.29E-02	3.44E-03	1.58E-02	-6.30E-02
	ADP-minerals&metals[1]	kg Sb-eq	1.30E-03	4.00E-05	5.88E-05	1.32E-04	4.72E-06	1.09E-05	1.32E-04	5.96E-06	1.21E-05	-3.01E-04
	ADP-fossil[1]	MJ	8.95E+02	3.57E+01	1.73E+02	1.20E+02	4.23E+01	9.74E+01	1.20E+02	1.46E+01	4.43E+01	-1.07E+02
	WDP[1]	m^3	1.91E+03	2.75E+01	1.60E+04	9.22E+01	8.99E+00	2.07E+01	9.22E+01	1.61E+03	9.32E+01	-7.02E+02

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: Location-based approach.

This EPD might use cement EPDs as input in which the Net approach* has been applied. See the Data Quality table on page 3.

*The Net approach excludes the emissions from waste incineration used to produce heat required in the cement manufacturing process.

Additional environmental impact indicators												
Indicator		Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
	PM	Disease incidence	1.62E-02	1.98E-07	3.46E-07	6.80E-07	8.51E-07	5.92E-06	6.80E-07	6.09E-08	2.85E-07	-1.09E-06
	IRP[2]	kgBq U235 -eq	1.64E+01	1.56E-01	5.45E+00	5.26E-01	1.81E-01	4.21E-01	5.26E-01	2.45E-01	1.92E-01	-2.01E-01
	ETP-fw[1]	CTUe	2.52E+02	2.60E+01	9.25E+01	8.79E+01	2.31E+01	5.32E+01	8.79E+01	1.03E+01	2.19E+01	-5.64E+02
	HTP-c[1]	CTUh	1.36E-07	0.00E+00	2.84E-09	0.00E+00	8.98E-10	1.90E-09	0.00E+00	6.62E-10	6.41E-10	-4.77E-08
	HTP-nc[1]	CTUh	4.94E-07	2.54E-08	6.79E-08	8.50E-08	2.13E-08	4.93E-08	8.50E-08	9.26E-09	1.28E-08	9.75E-07
	SQP[1]	dimensionless	1.11E+02	3.99E+01	7.25E+01	1.38E+02	5.37E+00	1.21E+01	1.38E+02	8.25E+00	1.61E+02	5.21E+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	C1	C2	C3	C4	D
	PERE	MJ	1.87E+02	4.49E-01	7.57E+01	1.51E+00	2.29E-01	5.29E-01	1.51E+00	7.51E+00	6.81E-01	-1.26E+01
	PERM	MJ	3.44E-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
	PERT	MJ	1.88E+02	4.49E-01	7.57E+01	1.51E+00	2.29E-01	5.29E-01	1.51E+00	7.51E+00	6.81E-01	-1.26E+01
	PENRE	MJ	6.52E+02	3.57E+01	1.73E+02	1.20E+02	4.23E+01	9.74E+01	1.20E+02	1.46E+01	4.43E+01	-1.08E+02
	PENRM	MJ	4.00E+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
	PENRT	MJ	6.56E+02	3.57E+01	1.73E+02	1.20E+02	4.23E+01	9.74E+01	1.20E+02	1.46E+01	4.43E+01	-1.08E+02
	SM	kg	5.43E+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
	RSF	MJ	7.66E+01	1.57E-02	3.02E-01	5.29E-02	5.63E-03	5.63E-03	5.29E-02	0.00E+00	1.41E-02	2.25E-01
	NRSF	MJ	3.48E+02	5.27E-02	9.63E-01	1.77E-01	8.29E-02	8.29E-02	1.77E-01	0.00E+00	4.05E-02	1.00E+01
	FW	m^3	1.53E+00	4.03E-03	2.79E-01	1.37E-02	2.18E-03	5.01E-03	1.37E-02	2.50E-02	5.27E-02	-9.62E-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	A2	A3	A4	A5	C1	C2	C3	C4	D
	HWD	kg	1.60E+00	1.94E-03	2.56E-02	6.58E-03	1.25E-03	2.87E-03	6.58E-03	1.46E-03	0.00E+00	-5.63E-02
	NHWD	kg	2.08E+01	3.02E+00	6.98E+00	1.05E+01	5.01E-02	1.15E-01	1.05E+01	4.60E-02	3.20E+02	-4.13E+00
	RWD	kg	7.50E-03	2.44E-04	2.47E-03	8.21E-04	2.94E-04	6.76E-04	8.21E-04	1.54E-04	0.00E+00	-1.77E-04

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	C1	C2	C3	C4	D
	CRU	kg	1.09E-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	0.00E+00
	MFR	kg	0.00E+00	0.00E+00	6.48E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E+02	0.00E+00	0.00E+00
	MER	kg	0.00E+00	0.00E+00	1.40E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	EEE	MJ	0.00E+00	0.00E+00	5.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	EET	MJ	0.00E+00	0.00E+00	8.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+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	0.00E+00
Biogenic carbon content in accompanying packaging	kg C	0.00E+00

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

Additional requirements

Transparent reporting of energy

The table below presents GWPtotal values for energy resources used in the manufacturing phase (A3), calculated with both the location-based and market-based approach. This information is provided for transparency, allowing EPD users to understand the impact of these methodological choices. In this EPD, the following methodology was used in the main results: Location-based approach.

Electricity mix	Source	Amount	Unit	GWPtotal [kg CO2/Unit]	SUM [kg CO2]
Location-based approach.					
Electricity, Sweden (kWh)	ecoinvent 3.6	2.65E+01	kWh	5.49E-02	1.45E+00
Market-based approach.					
Electricity, Sweden, low voltage, residual mix	ecoinvent 3.10.1	2.65E+01	kWh	6.55E-02	1.73E+00

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

Dangerous substances

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

Indoor environment

The product has a very small or no impact on the indoor climate

Additional Environmental Information

Additional environmental impact indicators required in NPCR Part A for construction products											
Indicator	**Unit**	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
GWPIOBC	kg CO_2 -eq	1.15E+02	2.21E+00	2.59E+00	7.41E+00	3.08E+00	7.08E+00	7.41E+00	4.70E-01	1.37E+00	-1.13E+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.

Additional GWP indicators for GWP Net and Gross		
Indicator	**Unit**	**A1-A3**
GWP-total, gross	kg CO_2 -eq	1.47E+02
GWP-fossil, gross	kg CO_2 -eq	1.46E+02
GWP-biogenic, gross	kg CO_2 -eq	4.03E-01
GWP-luluc, gross	kg CO_2 -eq	2.08E-01
GWP-total, net	kg CO_2 -eq	1.20E+02
GWP-fossil, net	kg CO_2 -eq	1.19E+02
GWP-biogenic, net	kg CO_2 -eq	4.03E-01
GWP-luluc, net	kg CO_2 -eq	2.08E-01

GWP-total, gross = Global Warming Potential total, gross (GWP-fossil, gross + GWP-biogenic, gross + GWP-luluc); GWP-total, net = Global Warming Potential total, net (GWP-fossil, net + GWP-biogenic, net + GWP-luluc); GWP-fossil, gross = Global Warming Potential fossil fuels, gross (includes emissions from combustion of waste fuels from non-renewable sources); GWP-fossil, net = Global Warming Potential fossil fuels, net (excludes emissions from combustion of waste fuels from non-renewable sources); GWP-biogenic, gross = Global Warming Potential biogenic, gross (includes emissions from combustion of waste fuels from renewable sources); GWP-biogenic, net = Global Warming Potential biogenic, net (excludes emissions from combustion of waste fuels from renewable sources); GWP-luluc = Global Warming Potential land use and land use change.

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