

# Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

## Nonset 50



EPD-Global

**Owner of the declaration:**

Mapei

**Product:**

Nonset 50

**Declared unit:**

1 kg

**This declaration is based on Product Category Rules:**

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

NPCR 009:2021 Part B for Technical - Chemical products for building and construction industry

**Program operator:**

EPD-Global

**Declaration number:**

NEPD-9043-9043-1

**Issue date:**

01.12.2025

**Valid to:**

01.12.2030

**EPD software:**

LCAno EPD generator ID: 1293952

## General information

### Product

Nonset 50

### Program operator:

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

### Declaration number:

NEPD-9043-9043-1

### This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR  
NPCR 009:2021 Part B for Technical - Chemical products for building  
and construction industry

### 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 kg Nonset 50

### Declared unit with option:

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

### Functional unit:

Functional unit is not covered by this PCR.

### 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. NEPD73

Third party verifier:

Linda Høbye, Life Cycle Assessment Consulting

(no signature required)

### Owner of the declaration:

Mapei  
Contact person: Environmental sustainability  
Phone: + 39 02 37673036  
e-mail: [corporate.sustainability@mapei.it](mailto:corporate.sustainability@mapei.it)

### Manufacturer:

Mapei AS

### Place of production:

Mapei AS  
Vallsetvegen 6  
2120 Sagstua, Norway

### Management system:

ISO 9001, ISO 14001 and ISO 45001

### Organisation no:

911 103 079

### Issue date:

01.12.2025

### Valid to:

01.12.2030

### 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.  
NEPD105

Developer of EPD: Laura Caretoni

Reviewer of company-specific input data and EPD: Marco Mazzetti

### Approved:



Håkon Hauan, CEO EPD-Global

## Product

### Product description:

Nonset 50 is an expanding mortar designed for grouting bolts in rock and can be used with rebar bolts, pipe bolts, CT bolts, etc. It is also well-suited for injection into larger cracks and bedding with thicknesses up to 15 mm.

Some application examples:

- Grouting bolts in rock, including alum shale
- Anchoring of steel bars in concrete
- Execution of underpinning
- Underpinning and jointing of prefabricated elements
- Injection into larger cracks in rock and concrete

Nonset 50 is supplied in 25 kg bags and 1000 kg big-bags.

For more information see the TDS (Technical Data Sheet) on Mapei AS website ([www.mapei.com/no](http://www.mapei.com/no)).

### Product specification

Materials	kg	%
Additives	0.0034	0.34
Binders	0.839	83.90
Fillers	0.1576	15.76
Total	1.00	100.00

Packaging	kg	%
Packaging	0.02	100.00
Total incl. packaging	1.02	100.00

### Technical data:

Nonset 50 is a pre-blended powdered grout based on sulphate-resistant cement, fine-graded aggregates, and special additives with an expansive agent formulated by MAPEI's research laboratories. When mixed with water, Nonset 50 forms a thixotropic mortar that exhibits slight expansion in the plastic phase, making it capable of filling complex cavities or ensuring complete encapsulation of bolts without segregation. The expansion pressure does not exert force on the structure after setting.

Nonset 50 complies with the principles outlined in EN 1504-9 ("Products and systems for the repair and protection of concrete structures: Definitions, requirements, quality control, and conformity assessment).

General rules for the use of products and systems. General principles for use of products and systems") and the minimum requirements of EN 1504-6 ("Anchoring of reinforcing steel").

### Market:

Nordic & Baltic countries

### Reference service life, product

The reference service life of the product is similar to the service life of the building.

### Reference service life, building

60 years

## LCA: Calculation rules

### Declared unit:

1 kg Nonset 50

### 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.

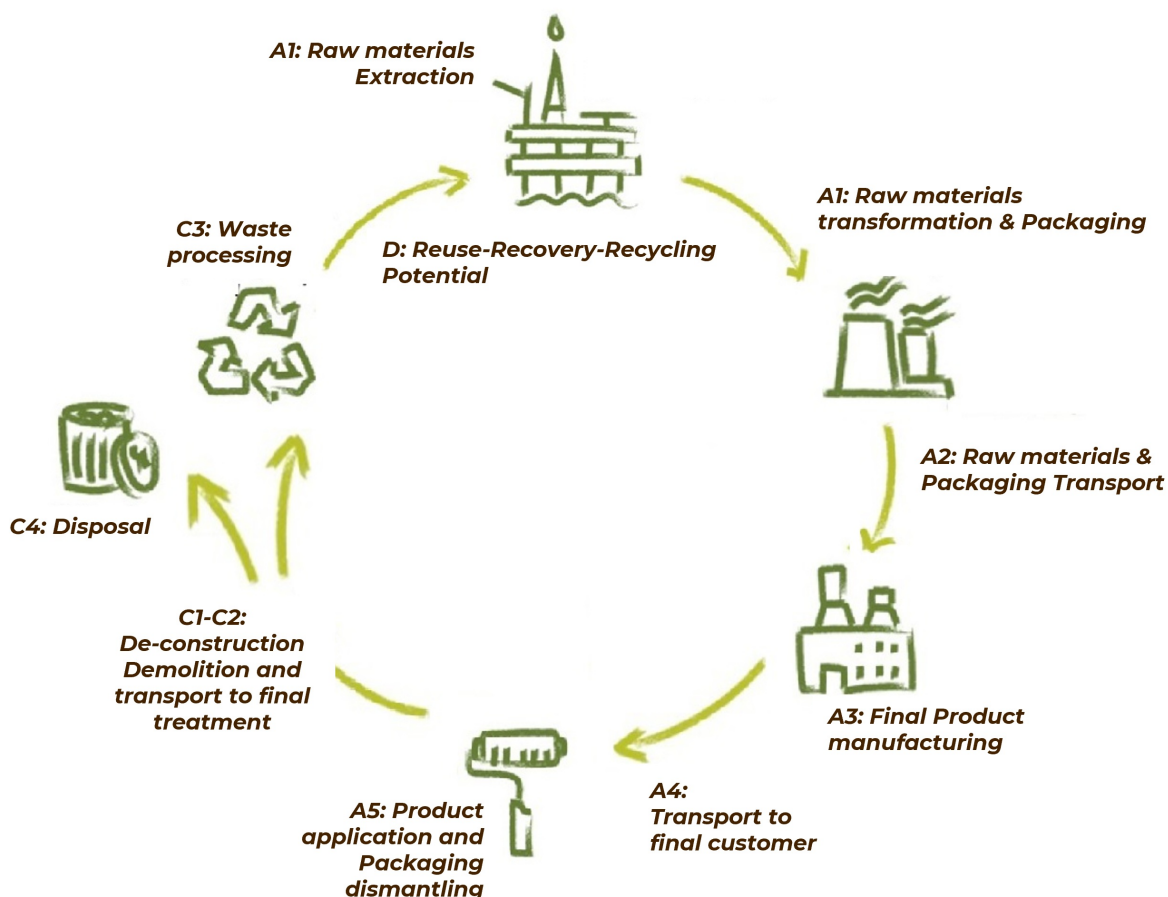
Materials	Source	Data quality	Year
Additives	ecoinvent 3.6	Database	2019
Additives	Supplier	EPD	2021
Binders	ecoinvent 3.6	Database	2019
Binders	Supplier	EPD	2023
Fillers	ecoinvent 3.6	Database	2019
Fillers	Supplier	EPD	2021
Packaging	ecoinvent 3.6	Database	2019

### 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:

The approach is "cradle to gate" (A1–A3) with modules A4 - A5, C1–C4 and module D. The production process starts from raw materials, that are purchased from external and inter-company suppliers and stored in the plant. Bulk raw materials are stored in specific silos and added automatically in the production mixer, according to the formula of the product. Other raw materials, supplied in bags, big bags or tanks, are stored in the warehouse and added automatically or manually in the mixer. The production is a discontinuous process, in which all the components are mechanically mixed in batches. The semi-finished product is then packaged, put on wooden pallets and stored in the finished products warehouse. The quality of final products is controlled before the sale.



#### Additional technical information:

## LCA: Scenarios and additional technical information














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

The results of stage A4 in the table of this EPD refer to domestic transport set by the PCR. This product may also be delivered to the countries in the table "Additional A4 information". To calculate the GWP of transportation to these countries, the result GWPotot of module A4 from this EPD shall be multiplied by the multiplication factors below. The installation phase (A5) includes the water to be added and the electricity consumption for mixing. The packaging is collected and sent to treatment. The demolition phase (C1) includes the electricity for demolition. The transport of waste is carried out by truck over 100 km (C2). It is assumed that 30% of the product is disposed into landfill and 70% is collected and recycled. Module D contains credits from the recycling of the fraction of product in module C3, at the end of life, the product can be collected and recycled for use in substitution of virgin raw aggregates.

Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 6 (km) - RER	36.7 %	300.00	0.043	l/tkm	12.90
Transport from production place to user (A4)	Unit	Value			
Oslo, Norway (truck 90km)	multiplication factor * GWP (A4)	0,3			
Kristiansand, Norway (truck 400km)	multiplication factor * GWP (A4)	1,33			
Stavanger, Norway (truck 640km)	multiplication factor * GWP (A4)	2,13			
Bergen, Norway (truck 530km)	multiplication factor * GWP (A4)	1,77			
Trondheim, Norway (truck 420km)	multiplication factor * GWP (A4)	1,40			
Tromsø, Norway (truck 1700km)	multiplication factor * GWP (A4)	5,67			
Stockholm, Sweden (truck 500km)	multiplication factor * GWP (A4)	1,67			
Helsinki, Finland (truck 1200km, ferry 100km)	multiplication factor * GWP (A4)	4,23			
Copenhagen, Denmark (truck 680km)	multiplication factor * GWP (A4)	2,27			
Oslo, Norway (electric truck 90km)	multiplication factor * GWPotot (A4)	0,21			
Kristiansand, Norway (electric truck 400km)	multiplication factor * GWPotot (A4)	0,92			
Stavanger, Norway (electric truck 640km)	multiplication factor * GWPotot (A4)	1,47			
Bergen, Norway (electric truck 530km)	multiplication factor * GWPotot (A4)	1,22			
Trondheim, Norway (electric truck 420km)	multiplication factor * GWPotot (A4)	0,97			
Tromsø, Norway (electric truck 1700km)	multiplication factor * GWPotot (A4)	3,91			
Assembly (A5)	Unit	Value			
Water, tap water (kg)	kg	0.40			
Electricity, European average (kWh)	kWh	0.004			
Waste, packaging, paper bag, to average treatment (kg)	kg	0.0034			
Waste, packaging, pallet, EUR wooden pallet, single use, to average treatment (kg)	kg	0.02			
De-construction demolition (C1)	Unit	Value			
Demolition of building per kg of product (kg)	kg/DU	1.00			
Electricity, European average (kWh)	kWh/DU	0.005			
Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 7.5-16 tonnes, EURO 6 (km) - RER	35.4 %	100.00	0.056	l/tkm	5.60
Waste processing (C3)	Unit	Value			
Waste treatment of product after demolition (kg)	kg	0.70			
Disposal (C4)	Unit	Value			
Disposal of product in landfill (kg)	kg	0.30			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of primary aggregates with crushed recycled products (kg)	kg	0.70			

## 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	C1	C2	C3	C4	D	
 GWP-total	kg CO <sub>2</sub> -eq	5.60E-01	5.02E-02	3.86E-02	6.14E-03	2.19E-02	5.04E-04	1.29E-03	-1.64E-03	
 GWP-fossil	kg CO <sub>2</sub> -eq	5.96E-01	5.02E-02	2.33E-03	6.12E-03	2.19E-02	4.97E-04	1.28E-03	-1.60E-03	
 GWP-biogenic	kg CO <sub>2</sub> -eq	-3.53E-02	2.08E-05	3.63E-02	1.57E-05	1.01E-05	4.29E-06	1.09E-06	-3.20E-05	
 GWP-luluc	kg CO <sub>2</sub> -eq	1.13E-04	1.79E-05	4.17E-06	5.25E-06	9.48E-06	6.88E-07	2.52E-07	-1.08E-06	
 ODP	kg CFC11 -eq	1.80E-08	1.14E-08	2.49E-10	1.04E-09	4.81E-09	9.80E-11	6.26E-10	-2.92E-10	
 AP	mol H+ -eq	1.42E-03	1.44E-04	1.48E-05	5.42E-05	6.30E-05	4.02E-06	1.25E-05	-1.44E-05	
 EP-FreshWater	kg P -eq	6.81E-06	4.01E-07	1.91E-07	2.41E-07	2.01E-07	3.14E-08	9.59E-09	-4.26E-08	
 EP-Marine	kg N -eq	3.73E-04	2.85E-05	3.25E-06	2.00E-05	1.19E-05	1.18E-06	4.70E-06	-5.00E-06	
 EP-Terrestrial	mol N -eq	3.49E-03	3.19E-04	3.69E-05	2.19E-04	1.34E-04	1.36E-05	5.18E-05	-5.88E-05	
 POCP	kg NMVOC -eq	1.18E-03	1.22E-04	9.48E-06	6.07E-05	5.12E-05	3.64E-06	1.48E-05	-1.55E-05	
 ADP-minerals&metals <sup>1</sup>	kg Sb-eq	2.37E-01	1.39E-06	2.58E-08	2.17E-08	7.91E-07	6.31E-09	1.14E-08	-1.42E-07	
 ADP-fossil <sup>1</sup>	MJ	2.74E+00	7.59E-01	4.33E-02	9.88E-02	3.27E-01	1.54E-02	4.15E-02	-2.71E-02	
 WDP <sup>1</sup>	m <sup>3</sup>	3.61E+01	7.34E-01	6.71E-01	6.69E-01	3.92E-01	1.70E+00	8.73E-02	-1.27E+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<sup>-3</sup> = 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

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-A3	A4	A5	C1	C2	C3	C4	D
 PM	Disease incidence	9.95E-09	3.07E-09	8.60E-11	5.10E-09	1.23E-09	6.40E-11	2.67E-10	-3.07E-10
 IRP <sup>2</sup>	kgBq U235 -eq	2.44E-02	3.32E-03	3.51E-04	6.23E-04	1.43E-03	2.59E-04	1.80E-04	-2.49E-04
 ETP-fw <sup>1</sup>	CTUe	1.02E+01	5.62E-01	3.39E-02	6.07E-02	2.55E-01	1.09E-02	2.05E-02	-2.79E-02
 HTP-c <sup>1</sup>	CTUh	7.80E-11	0.00E+00	2.00E-12	2.00E-12	0.00E+00	1.00E-12	1.00E-12	-1.00E-12
 HTP-nc <sup>1</sup>	CTUh	4.11E-09	6.14E-10	6.50E-11	5.80E-11	3.07E-10	1.00E-11	1.20E-11	-3.40E-11
 SQP <sup>1</sup>	dimensionless	4.93E+00	5.31E-01	1.28E-02	1.73E-02	1.95E-01	8.73E-03	1.51E-01	6.15E-02

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<sup>-3</sup> = 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	C1	C2	C3	C4	D	
 PERE	MJ	8.61E-01	1.09E-02	7.48E-03	8.78E-03	5.57E-03	7.95E-03	6.38E-04	-6.35E-03	
 PERM	MJ	3.26E-01	0.00E+00	-3.26E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
 PERT	MJ	1.19E+00	1.09E-02	-3.18E-01	8.78E-03	5.57E-03	7.95E-03	6.38E-04	-6.35E-03	
 PENRE	MJ	2.69E+00	7.59E-01	4.33E-02	9.89E-02	3.27E-01	1.54E-02	4.15E-02	-2.86E-02	
 PENRM	MJ	2.91E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
 PENRT	MJ	2.71E+00	7.59E-01	4.33E-02	9.89E-02	3.27E-01	1.54E-02	4.15E-02	-2.86E-02	
 SM	kg	6.61E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
 RSF	MJ	4.13E-03	3.89E-04	5.11E-04	6.18E-04	2.01E-04	0.00E+00	1.32E-05	-1.30E-04	
 NRSF	MJ	1.31E+00	1.39E-03	1.70E-04	1.47E-04	7.31E-04	0.00E+00	3.79E-05	-1.33E-04	
 FW	m <sup>3</sup>	3.13E-03	8.11E-05	4.37E-04	4.00E-05	3.90E-05	2.64E-05	4.94E-05	-9.96E-04	






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<sup>-3</sup> = 0.009"

End of life - Waste										
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D	
 HWD	kg	1.53E-02	3.91E-05	5.62E-06	8.21E-06	1.81E-05	1.54E-06	0.00E+00	-6.54E-06	
 NHWD	kg	5.70E-02	3.69E-02	2.35E-02	2.13E-04	1.29E-02	4.87E-05	3.00E-01	-1.98E-04	
 RWD	kg	1.69E-05	5.17E-06	2.61E-07	6.95E-07	2.21E-06	1.63E-07	0.00E+00	-2.15E-07	

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

"Reading example: 9.0 E-03 = 9.0\*10<sup>-3</sup> = 0.009"

End of life - Output flow										
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D	
 CRU	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	
 MFR	kg	5.11E-03	0.00E+00	3.16E-03	0.00E+00	0.00E+00	7.00E-01	0.00E+00	0.00E+00	
 MER	kg	1.15E-02	0.00E+00	2.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
 EEE	MJ	3.31E-03	0.00E+00	1.40E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
 EET	MJ	5.01E-02	0.00E+00	2.12E-01	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<sup>-3</sup> = 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	9.88E-03

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO<sub>2</sub>

## 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, Norway (kWh)	ecoinvent 3.6	24.33	g CO <sub>2</sub> -eq/kWh

### Dangerous substances

The product contains substances given by the REACH Candidate list that are less than 0,1 % by weight.

### Indoor environment






## Additional Environmental Information

Additional environmental impact indicators required in NPCR Part A for construction products									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWPIOBC	kg CO <sub>2</sub> -eq	5.89E-01	5.02E-02	2.35E-03	6.30E-03	2.19E-02	4.98E-04	1.29E-03	-1.71E-03

GWPI-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.

## Bibliography

ISO 14025:2010 Environmental labels and declarations - Type III environmental declarations - Principles and procedures.  
 ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.  
 EN 15804:2012+A2:2019 Environmental product declaration - Core rules for the product category of construction products.  
 ISO 21930:2017 Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products.  
 ecoinvent v3, (2019) Allocation, cut-off by classification, Swiss Centre of Life Cycle Inventories.  
 Iversen et al., (2021) eEPD v2021.09 Background information for EPD generator tool system verification, LCA.no Report number: 07.21  
 Ruttenborg, M. and Iversen, O.M.K., (2023) EPD generator for NPCR009:2021, Part B for Technical - Chemical products, Background information for EPD generator application and LCA data, LCA.no report number: 05.23.  
 NPCR Part A: Construction products and services. Ver. 2.0, 24.03.2021 EPD Norway.  
 NPCR 009 Part B for Technical - Chemical products for building and construction industry, Ver. 3.0, 06.10.2021, EPD Norway.  
 European directive 2008/98/EC.  
 EN 1504-9 "Products and systems for repairation of concrete structures: Definitions, requirements, quality control and evaluation of compliance. General rules for the use of products and systems".  
 EN 1504-6 "Anchoring of reinforcing bars".

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