epd-global
Powered by EPD-Norway

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Megalite S1 Flex grey



EPD-Global

Owner of the declaration:
Mapei AS

Product:
Megalite S1 Flex grey

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-9077-9077-1

Issue date:
12.05.2026

Latest revision
v1.0 Date: 28.07.2026

Valid to:
12.05.2031

EPD software:
LCAno EPD generator ID: 1691561

General information

Product

Megalite S1 Flex grey

Owner of the declaration:

Mapei AS
Contact person: Corporate Environmental Sustainability
Phone: + 39 02 37673036
e-mail: corporate.sustainability@mapei.it

Program operator:

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

Manufacturer:

Mapei AS

Declaration number:

NEPD-9077-9077-1

Place of production:

Mapei AS
Vallsetvegen 6
2120 Sagstua, Norway

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

Management system:

ISO 9001, ISO 14001 and ISO 45001

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.

Organisation no:

911103079

Declared unit:

1 kg Megalite S1 Flex grey

Issue date:

12.05.2026

Declared unit with option:

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

Valid to:

12.05.2031

Year of study:

2025

Functional unit:

Functional unit is not covered by this PCR.

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.

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

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. NEPDT105

Developer of EPD: Laila Danielsen Nicolaisen

Reviewer of company-specific input data and EPD: Laura Carettoni

Verification of EPD tool:

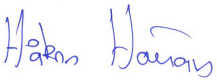
Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPD-Global's procedures and guidelines for verification and approval of EPD tools. NEPDT73

Third party verifier:

Linda Høibye, Life Cycle Assessment Consulting

(no signature required)

Approved:



Håkon Hauan, CEO EPD-Global

Product

Product description:

Megalite S1 Flex grey is a one-component, high-performance, deformable, lightweight adhesive with no vertical slip and extended open time, with Low Dust technology and extremely high yield, and very low emission of volatile organic compounds. It is easy to apply by trowel with high backbuttering capacities for ceramic and stone tiles. It is ideal for large-format tiles.

It is available in 15 kg paper bags with handle.

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

Product specification

Materials	Value	Unit
Binders	0.5-0.6	kg
Fillers	0.3-0.4	kg
Additives	< 0.01	kg
Total	1	kg
Packaging		
Paper	0.006	kg
Plastic	0.00096	kg
Wood	0.033	kg
Total incl. packaging	1.04	kg

Technical data:

Megalite S1 Flex grey is a grey powder made of cement, selected graded sand and a high amount of synthetic resins, admixed with lightweight, natural aggregates that make the mix lighter, according to a special formula developed in MAPEI Research & Development labs. Megalite S1 Flex grey is a product with very low emission of volatile organic compounds (VOC), which safeguards the health and safety of installers and final users.

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 Megalite S1 Flex grey

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.

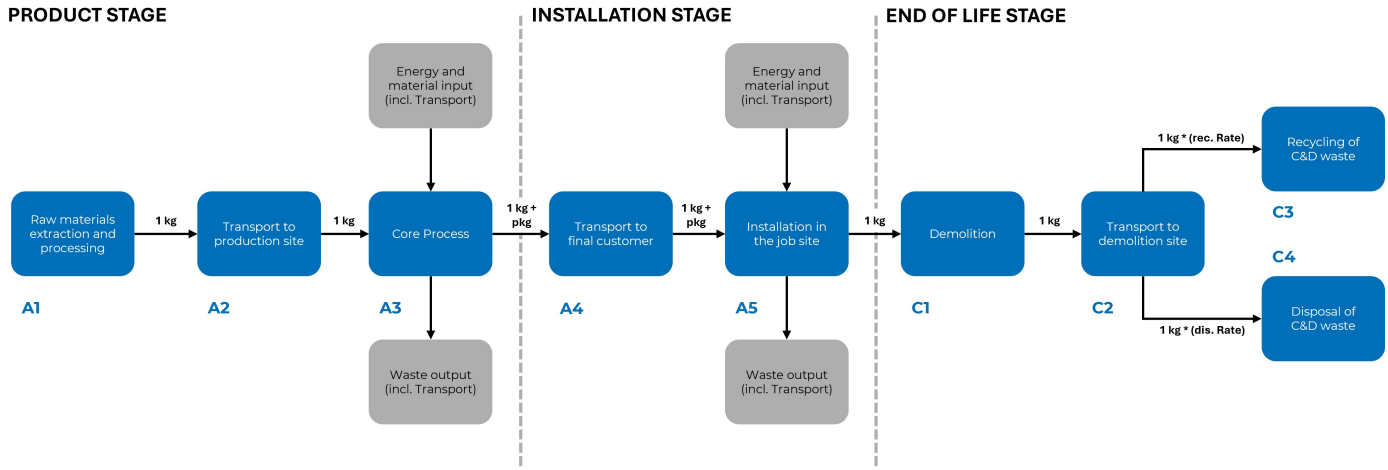
Materials	Source	Data quality	Year
Additives	ecoinvent 3.10.1	Database	2023
Additives	Ecoinvent 3.6	Database	2019
Additives	modified ecoinvent 3.6	Database	2019
Binders	ecoinvent 3.6	Database	2019
Binders	Supplier	EPD	2021
Binders	Supplier	EPD	2023
Fillers	ecoinvent 3.6	Database	2019
Fillers	Supplier	EPD	2021
Packaging	ecoinvent 3.6	Database	2019
Packaging - Plastic	ecoinvent 3.10.1	Database	2023
Packaging - Wood	ecoinvent 3.10.1	Database	2023

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 intercompany 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 GWPtot 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 - ecoinvent 3.10.1	38.8 %	300.00	0.044	l/tkm	13.20

Transport from production place to user (A4)	Unit	Value			
Oslo, Norway (truck 90km)	multiplication factor * GWPtot (A4)	0,30			
Kristiansand, Norway (truck 400km)	multiplication factor * GWPtot (A4)	1,33			
Stavanger, Norway (truck 640km)	multiplication factor * GWPtot (A4)	2,13			
Bergen, Norway (truck 530km)	multiplication factor * GWPtot (A4)	1,77			
Trondheim, Norway (truck 420km)	multiplication factor * GWPtot (A4)	1,4			
Tromsø, Norway (truck 1700km)	multiplication factor * GWPtot (A4)	5,67			
Stockholm, Sweden (truck 500km)	multiplication factor * GWPtot (A4)	1,67			
Helsinki, Finland (truck 1200km, ferry 100km)	multiplication factor * GWPtot (A4)	4,23			
Copenhagen, Denmark (truck 680km)	multiplication factor * GWPtot (A4)	2,27			
Oslo, Norway (electric truck 90km)	multiplication factor * GWPtot (A4)	0,21			
Kristiansand, Norway (electric truck 400km)	multiplication factor * GWPtot (A4)	0,92			
Stavanger, Norway (electric truck 640km)	multiplication factor * GWPtot (A4)	1,47			
Bergen, Norway (electric truck 530km)	multiplication factor * GWPtot (A4)	1,22			
Trondheim, Norway (electric truck 420km)	multiplication factor * GWPtot (A4)	0,97			
Tromsø, Norway (electric truck 1700km)	multiplication factor * GWPtot (A4)	3,91			

Assembly (A5)	Unit	Value			
Water, tap water (kg)	kg	0.51			
Electricity, European average (kWh)	kWh	0.007			
Waste, packaging, paper bag, to average treatment (kg)	kg	0.006			
Waste, packaging, plastic, mixture, to average treatment (kg) - A5, incl. 85 km transp.	kg	0.00096			
Waste, wood, pallet, average treatment (kg) 3.10.1	kg	0.0333			

Assembly (A5)	Unit	Value			
Binders	kg	0.5-0.6			
Fillers	kg	0.3-0.4			
Additives	kg	< 0.1			
Total	kg	1			
Packaging					
Paper	kg	0.006			
Plastic	kg	0.00096			
Wood	kg	0.033			
Total incl. packaging	kg	1.04			

De-construction demolition (C1)	Unit	Value			
Demolition of building per kg of product (kg)	kg	1.00			
Electricity, European average (kWh)	kWh	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 - ecoinvent 3.10.1	35.4 %	100.00	0.056	l/tkm	5.60

Waste processing (C3)	Unit	Value			
Waste treatment of product after demolition, recycling (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			
Substitution of electricity (MJ)	MJ	0.000000602			
Substitution of thermal energy, district heating (MJ)	MJ	0.000001445			
Substitution, Packaging, plastic film (LDPE) (kg) - RER	kg	0.0002976			
Substitution, Packaging, Pallet, EUR wooden pallet, single use (kg)	kg	0.02151			

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	3.33E-01	4.73E-02	2.25E-03	5.93E-02	8.06E-02	6.14E-03	2.49E-02	6.97E-03	1.29E-03	2.34E-02
	GWP-fossil	kg CO_2 -eq	3.94E-01	4.72E-02	2.14E-03	5.92E-02	5.27E-03	6.12E-03	2.49E-02	4.97E-04	1.28E-03	-8.05E-03
	GWP-biogenic	kg CO_2 -eq	-6.11E-02	4.91E-05	1.01E-04	4.57E-05	7.54E-02	1.57E-05	1.58E-05	6.47E-03	1.09E-06	3.15E-02
	GWP-luluc	kg CO_2 -eq	2.54E-04	2.75E-05	6.08E-06	2.13E-05	7.27E-06	5.25E-06	8.35E-06	6.88E-07	2.52E-07	-2.92E-05
	ODP	kg CFC11 -eq	1.84E-08	8.64E-09	1.85E-10	1.25E-09	2.96E-10	1.04E-09	5.20E-10	9.80E-11	6.26E-10	-1.06E-09
	AP	mol H+ -eq	1.27E-03	3.50E-04	1.56E-05	1.23E-04	2.31E-05	5.42E-05	4.89E-05	4.02E-06	1.25E-05	-4.80E-05
	EP-FreshWater	kg P -eq	5.64E-05	9.95E-07	1.09E-07	3.99E-06	4.61E-07	2.41E-07	1.62E-06	3.14E-08	9.59E-09	-2.17E-06
	EP-Marine	kg N -eq	2.71E-04	9.25E-05	3.16E-06	2.96E-05	5.43E-06	2.00E-05	1.15E-05	1.18E-06	4.70E-06	-1.48E-05
	EP-Terrestial	mol N -eq	3.02E-03	1.03E-03	3.62E-05	3.19E-04	5.26E-05	2.19E-04	1.24E-04	1.36E-05	5.18E-05	-1.68E-04
	POCP	kg NMVOC -eq	9.44E-04	3.04E-04	9.86E-06	2.05E-04	1.46E-05	6.07E-05	8.25E-05	3.64E-06	1.48E-05	-6.48E-05
	ADP-minerals&metals[1]	kg Sb-eq	3.73E-06	6.61E-07	1.11E-07	1.97E-07	3.08E-08	2.17E-08	8.16E-08	6.31E-09	1.14E-08	-1.80E-07
	ADP-fossil[1]	MJ	5.07E+00	7.23E-01	2.57E-02	8.33E-01	7.45E-02	9.88E-02	3.48E-01	1.54E-02	4.15E-02	-1.48E-01
	WDP[1]	m^3	8.48E+00	1.63E+00	8.05E-02	4.14E-03	1.09E+00	6.69E-01	1.69E-03	1.70E+00	8.73E-02	-1.28E+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

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	1.07E-08	3.39E-09	1.85E-10	4.37E-09	1.35E-10	5.10E-09	1.56E-09	6.40E-11	2.67E-10	-8.86E-10
	IRP[2]	kgBq U235 -eq	1.51E-02	3.21E-03	3.86E-04	1.07E-03	5.80E-04	6.23E-04	5.31E-04	2.59E-04	1.80E-04	-9.05E-04
	ETP-fw[1]	CTUe	3.13E+00	5.31E-01	9.54E-02	1.11E-01	5.20E-02	6.07E-02	4.99E-02	1.09E-02	2.05E-02	-5.90E-02
	HTP-c[1]	CTUh	1.54E-10	0.00E+00	4.00E-12	0.00E+00	1.00E-12	2.00E-12	0.00E+00	1.00E-12	1.00E-12	-3.40E-11
	HTP-nc[1]	CTUh	2.30E-09	5.67E-10	1.09E-10	6.24E-10	8.40E-11	5.80E-11	2.08E-10	1.00E-11	1.20E-11	-1.04E-10
	SQP[1]	dimensionless	7.30E+00	7.07E-01	1.13E-02	5.04E-01	2.22E-02	1.73E-02	1.79E-01	8.73E-03	1.51E-01	-2.75E+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	C1	C2	C3	C4	D
	PERE	MJ	8.52E-01	2.45E-02	2.59E-01	1.46E-02	1.28E-02	8.78E-03	6.81E-03	7.95E-03	6.38E-04	-2.18E-01
	PERM	MJ	6.51E-01	0.00E+00	0.00E+00	0.00E+00	-6.45E-01	0.00E+00	0.00E+00	-9.09E-02	0.00E+00	-3.07E-01
	PERT	MJ	1.50E+00	2.45E-02	2.59E-01	1.46E-02	-6.32E-01	8.78E-03	6.81E-03	-8.29E-02	6.38E-04	-5.25E-01
	PENRE	MJ	3.47E+00	7.23E-01	2.58E-02	8.33E-01	7.46E-02	9.89E-02	3.48E-01	1.54E-02	4.15E-02	-1.16E-01
	PENRM	MJ	1.72E+00	0.00E+00	0.00E+00	0.00E+00	-7.22E-02	0.00E+00	0.00E+00	-1.64E+00	0.00E+00	-1.26E-02
	PENRT	MJ	5.18E+00	7.23E-01	2.58E-02	8.33E-01	2.44E-03	9.89E-02	3.48E-01	-1.63E+00	4.15E-02	-1.29E-01
	SM	kg	1.71E-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	4.04E-01	1.49E-03	2.04E-04	4.89E-06	8.82E-04	6.18E-04	1.55E-06	0.00E+00	1.32E-05	-1.05E-02
	NRSF	MJ	8.75E-01	1.26E-03	5.18E-04	0.00E+00	2.18E-04	1.47E-04	0.00E+00	0.00E+00	3.79E-05	-1.33E-04
	FW	m^3	3.51E-03	1.56E-04	1.93E-03	1.14E-04	5.71E-04	4.00E-05	4.77E-05	2.64E-05	4.94E-05	-1.09E-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	C1	C2	C3	C4	D
	HWD	kg	6.38E-03	1.40E-04	1.35E-04	1.21E-03	3.77E-05	8.21E-06	4.53E-04	1.54E-06	0.00E+00	-4.72E-04
	NHWD	kg	2.94E-01	4.92E-02	1.71E-03	2.56E-02	2.76E-02	2.13E-04	1.07E-02	4.87E-05	3.00E-01	-1.72E-02
	RWD	kg	7.70E-06	4.38E-06	2.16E-07	2.67E-07	4.54E-07	6.95E-07	0.00E+00	1.63E-07	0.00E+00	-3.85E-07

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	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	0.00E+00
	MFR	kg	0.00E+00	0.00E+00	1.52E-03	0.00E+00	1.94E-02	0.00E+00	0.00E+00	7.00E-01	0.00E+00	0.00E+00
	MER	kg	0.00E+00	0.00E+00	1.27E-03	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	EEE	MJ	0.00E+00	0.00E+00	8.35E-04	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	EET	MJ	0.00E+00	0.00E+00	1.26E-02	0.00E+00	5.20E-03	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	1.76E-03
Biogenic carbon content in accompanying packaging	kg C	1.77E-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, Norway (kWh)	ecoinvent 3.6	24.33	g CO2-eq/kWh

Dangerous substances

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

Indoor environment

The product is certified with an EC1plus class according to GEV-EMICODE.

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	3.96E-01	4.73E-02	2.19E-03	5.93E-02	5.38E-03	6.14E-03	2.49E-02	4.98E-04	1.29E-03	-8.20E-03

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.

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.

epd-global Powered by EPD-Norway	**Program operator and publisher** EPD-Global Postboks 5250 Majorstuen, 0303 Oslo, Norway	Phone: e-mail: web:	+47 977 22 020 post@epd-norge.no www.epd-global.com
MAPEI ADHESIVES · SEALANTS · CHEMICAL PRODUCTS FOR BUILDING	**Owner of the declaration:** Mapei AS Vallsetvegen 6, 2120 Sagstua, Norway	Phone: e-mail: web:	+ 39 02 37673036 corporate.sustainability@mapei.it
LCA.no	**Author of the Life Cycle Assessment** LCA.no AS Dokka 6A, 1671 Kråkerøy, Norway	Phone: e-mail: web:	+47 916 50 916 post@lca.no www.lca.no
LCA.no	**Developer of EPD generator** LCA.no AS Dokka 6A, 1671 Kråkerøy, Norway	Phone: e-mail: web:	+47 916 50 916 post@lca.no www.lca.no
ECO PLATFORM EPD VERIFIED	ECO Platform ECO Portal	web: web:	www.eco-platform.org ECO Portal