epd-norge
Global program operatør

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Stolit® QS K/R/MP

sto
Building with conscience.

The Norwegian EPD Foundation

Owner of the declaration:
Sto SE & Co. KGaA

Product:
Stolit® QS K/R/MP

Declared unit:
1 kg

This declaration is based on Product Category Rules:
CEN Standard EN 15804:2012+A2:2019 serves as core PCR
IBU PCR Part B for coatings with organic binders

Program operator:
The Norwegian EPD Foundation

Declaration number:
NEPD-12286-12326

Registration number:
NEPD-12286-12326

Issue date:
11.09.2025

Valid to:
11.09.2030

EPD software:
LCAno EPD generator ID: 1170781

General information

Product

Stolit® QS K/R/MP

Owner of the declaration:

Sto SE & Co. KGaA
Contact person: Linus Kaltenbach
Phone: +49 7744571010
e-mail: l.kaltenbach@sto.com

Program operator:

The Norwegian EPD Foundation
Post Box 5250 Majorstuen, 0303 Oslo, Norway
Phone: +47 977 22 020
web: www.epd-norge.no

Manufacturer:

Sto SE & Co. KGaA
Ehrenbachstraße 1
79780 Stühlingen, Germany

Declaration number:

NEPD-12286-12326

Place of production:

Weizen
Ehrenbachstraße 1
79780 Stühlingen, Germany

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR
IBU PCR Part B for coatings with organic binders

Management system:

ISO 14001; ISO 50001; ISO 9001

Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Organisation no:

DE142834082

Declared unit:

1 kg Stolit® QS K/R/MP

Issue date:

11.09.2025

Declared unit with option:

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

Valid to:

11.09.2030

Year of study:

2023

Functional unit:

Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804 and seen 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-Norway'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-Norway, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Norway'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 Norway. NEPDT143

Developer of EPD: Angelica Hultin

Reviewer of company-specific input data and EPD: Karin Bromoe

Verification of EPD tool:

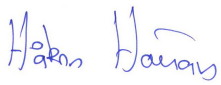
Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools.

Third party verifier:

Elisabet Amat, GREENIZE projects

(no signature required)

Approved:



Håkon Hauan, CEO EPD-Norge

Product

Product description:

Stolit® QS K/R/MP is an organic finishing render used on masonry, insulated and rainscreen cladding facades with a base coat and on mineral and organic substrates. It uses mineral fillers, polymer dispersion, water and small amounts of additives (thickeners, defoamers, wetting agents, preservatives, etc.). The QuickSet Technology (QS) is suitable for cold weather conditions. The application process can be done manually.

Due to the use of different-sized marble granulate, the product's texture differs:
Stolit® QS K is used for a stippled texture
Stolit® QS R is used for a rilled texture
Stolit® QS MP is used for a fine, free-style texture

Stolit® QS K/R/MP has the following properties:
-render in accordance with EN 15824
-A2-s1, d0 in accordance with EN 13501-1
-with encapsulated film protection
-shockproof and highly resistant to cracks and hail when combined with StoTherm Classic®
-with high-quality marble grains made of natural deposits
-fast film formation and moisture resistance (within 6 hrs) with QuickSet Technology (QS)
-developed for cold and damp conditions
-night frost-proof down to -5 °C

For the placing on the market of the product in the European Union/European Free Trade Association (EU/EFTA) (with the exception of Switzerland) Regulation (EU) No. 305/2011 (CPR) applies. The product needs a declaration of performance taking into consideration EN 15824:2017 render/plaster with organic binding agents and the CE-marking. For the application and use the respective national provisions apply.

Product specification

The following data is required by the corresponding PCR B. Further information can be found in the Safety Data Sheet on www.sto.de.

1) This product contains substances listed in the candidate list (date: 05.09.2025)
exceeding 0.1 percentage by mass: no.

2) This product contains other CMR substances in categories 1A or 1B which are not on the candidate list, exceeding 0.1 percentage by mass: yes
titanium dioxide, pigment, >= 1 - < 10%
CAS-nr: 13463-67-7

3) Biocide products were added to this construction product or it has been treated with biocide products (this then concerns a treated product as defined by the (EU) Ordinance on Biocide Products No. 528/2012): yes
Pyrithione zinc, dry film preservative;
CAS-nr: 13463-41-7

Terbutryn, dry film preservative;
CAS-nr: 886-50-0

1,2-Benzisothiazol-3(2H)-on; in-can preservative;
CAS-nr: 2634-33-5

2-octyl-2H-isothiazol-3-one; dry film preservative;
CAS-nr: 26530-20-1

The material composition of the declared mixed product is stated below:

Materials	Value	Unit
Filler	> 70	%
Binder	< 15	%
Water	< 10	%
Pigment	< 10	%
Additive	< 2	%

Technical data:

The technical data stated here is relevant for the use of the declared product. Further information regarding the technical properties, the approximate consumption per m2 and the application process can be found in the Technical Data Sheet on www.sto.de.

Criterion	Standard/Test specification	Class
Density	EN ISO 2811	1.6 - 1.8 g/cm³
Water permeability rate w	EN 1062-3	W3 low
Reaction to fire	EN 13501-1	A2-s1, d0

Market:

The main market is Europe.

Reference service life, product

The service life of organic finishing render is highly dependent on climate, direct impact of the weather and use. Depending on these factors, the service life of Stolit® QS K/R/MP can be up to 60 years which is equivalent to the assumed service life of the building . The service life of a building might differ between countries and should be defined by a case on case basis.

A reference service life (RSL) in accordance with ISO 15686-1,-2,-7, and -8 is not declared.

Reference service life, building or construction works

60 years

LCA: Calculation rules

Declared unit:

1 kg Stolit® QS K/R/MP

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.

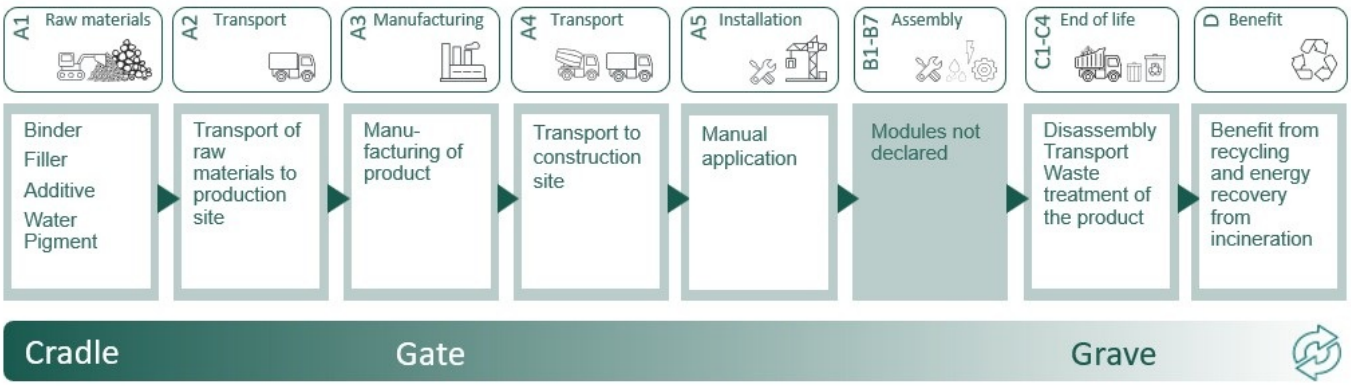
Materials	Source	Data quality	Year
Additives	CEPE RM Database v3.0, ecoinvent 3.6	Database	2016
Additives	ecoinvent 3.6	Database	2019
Binders and Resins	CEPE RM Database v3.0	Database	2016
Chemical	ecoinvent 3.6	Database	2019
Fillers	ecoinvent 3.6	Database	2019
Monomers and Precursors	CEPE RM Database v3.0	Database	2016
Packaging - Plastic	ecoinvent 3.6	Database	2019
Packaging - Wood	Modified ecoinvent 3.6	Database	2019
Pigments	ecoinvent 3.10.1	Database	2023
Pigments and Fillers	CEPE RM Database v3.0	Database	2016
Solvent	CEPE RM Database v3.0	Database	2016
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:

The scope of this LCA is cradle to gate with options, modules C1-C4 and module D. No actions are to be taken during User stage.



Additional technical information:

Finishing render is categorized under the European Waste Catalogue (EWC), category 17.09 "Other Construction and Demolition Waste" and is categorized as non-hazardous waste.

The waste code for the unused product is 08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances and which are considered to be hazardous waste according to Section 13 b.
(*) hazardous waste according to Directive 2008/98/EC

LCA: Scenarios and additional technical information

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

Modules A1-A3: The raw materials are produced by and transported from suppliers mainly located in Europe. The raw materials are filled in weighting containers and thereafter mixed together. Quality control checks the consistency of the product and adjusts if necessary. The finished product is filled into pails and stored. The product is transported on pallets and delivered to the customer.

A4 (Transport to market/building site): Since the distance to the construction site can vary strongly, a distance of 100 km is used to allow simple scaling for individual projects.

A5 (Installation): The product is applied according to the specifications in the technical data sheet at the construction site. Installation is generally done manually. Outputs are small amounts of waste from the product itself (assumed to be a maximum of 3%) and waste from packaging materials.

C1 (De-construction, demolition): It is assumed that Stolit® QS K/R/MP is dismantled using machinery.

C2 (Transport end of life): This stage includes the transportation effects of demolished waste to a waste processing area. The distance between the demolishing area and a waste processing area is assumed to be quite short (less than 100 km). The distance varies depending on the type of waste processing.

C3, C4 (Waste processing): Finishing render is not classified as hazardous waste and treated as mixed construction waste. A typical End of life scenario for construction waste in Germany is a mix of recycling and landfill. Since a 100% End-of-life scenario has to be declared according to the PCR, 100% landfill has been chosen.

D (Environmental costs and benefits of recycling and reuse): Energy credit related to energy recovery from the incineration is included in module D.

Stages not included:
Once installation is complete, no actions or technical operations are required during the use stage until the end of life stage. Stages B1-B7 are therefore not declared.

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 (kgkm)	36,7 %	100,00	0,043	l/tkm	4,30

Assembly (A5)	Unit	Value			
Material loss, including waste treatment (psc)	Units	0,03			
Waste, packaging, pallet, EUR wooden pallet, reusable, average treatment (kg)	kg	0,033			
Waste, packaging, polyethylene, PE plastic parts, to average treatment (kg)	kg	0,0178			

De-construction demolition (C1)	Unit	Value			
Electricity, Germany (kWh)	kWh	0,013			

Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 6 (kgkm)	36,7 %	100,00	0,043	l/tkm	4,30

Disposal (C4)	Unit	Value			
Waste, inert waste, to landfill (kg)	kg	1,00			

Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of thermal energy, district heating (MJ)	MJ	0,01722			
Substitution of electricity (MJ)	MJ	0,001138			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	0,001697			
Substitution of electricity, in Norway (MJ)	MJ	0,0001121			

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	4.82E-01	9.67E-02	8.16E-03	1.72E-02	6.39E-02	7.62E-03	1.72E-02	0	8.22E-03	-1.14E-04
	GWP-fossil	kg CO_2 -eq	5.30E-01	9.66E-02	6.57E-03	1.72E-02	1.53E-02	7.48E-03	1.72E-02	0	8.20E-03	-1.10E-04
	GWP-biogenic	kg CO_2 -eq	-4.85E-02	4.00E-05	7.17E-04	7.10E-06	4.86E-02	1.26E-04	7.10E-06	0	9.58E-06	-2.26E-07
	GWP-luluc	kg CO_2 -eq	1.56E-04	3.44E-05	8.76E-04	6.11E-06	2.99E-05	9.07E-06	6.11E-06	0	2.02E-06	-3.78E-06
	ODP	kg CFC11 -eq	7.15E-08	2.19E-08	5.58E-10	3.89E-09	2.92E-09	2.93E-10	3.89E-09	0	3.11E-09	-7.99E-06
	AP	mol H+ -eq	5.28E-03	2.78E-04	8.12E-06	4.93E-05	9.38E-05	2.17E-05	4.93E-05	0	7.30E-05	-9.04E-07
	EP-FreshWater	kg P -eq	1.14E-04	7.72E-07	3.65E-08	1.37E-07	1.90E-06	1.13E-06	1.37E-07	0	9.30E-08	-9.75E-09
	EP-Marine	kg N -eq	5.50E-04	5.49E-05	2.77E-06	9.76E-06	1.83E-05	3.36E-06	9.76E-06	0	2.71E-05	-2.95E-07
	EP-Terrestial	mol N -eq	5.37E-03	6.14E-04	2.09E-05	1.09E-04	1.51E-04	5.32E-05	1.09E-04	0	2.99E-04	-3.19E-06
	POCP	kg NMVOC -eq	2.03E-03	2.35E-04	6.47E-06	4.18E-05	5.15E-05	1.01E-05	4.18E-05	0	8.56E-05	-8.81E-07
	ADP-minerals&metals[1]	kg Sb-eq	5.57E-06	2.67E-06	4.10E-08	4.74E-07	3.33E-07	6.22E-08	4.74E-07	0	7.39E-08	-1.09E-09
	ADP-fossil[1]	MJ	9.48E+00	1.46E+00	6.18E-02	2.60E-01	2.76E-01	1.02E-01	2.60E-01	0	2.26E-01	-1.57E-03
	WDP[1]	m^3	8.70E+00	1.41E+00	7.59E+00	2.51E-01	4.85E-01	1.03E+00	2.51E-01	0	1.39E+00	-1.95E-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"
*INA Indicator Not Assessed

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	C1	C2	C3	C4	D
	PM	Disease incidence	5.67E-08	5.92E-09	5.40E-11	1.05E-09	1.23E-09	8.40E-11	1.05E-09	0	1.56E-09	-5.40E-11
	IRP[2]	kgBq U235 -eq	3.66E+01	6.38E-03	4.29E-05	1.13E-03	6.77E-01	3.20E-04	1.13E-03	0	1.03E-03	-1.00E-05
	ETP-fw[1]	CTUe	1.12E+01	1.08E+00	4.43E-02	1.92E-01	2.81E-01	8.69E-02	1.92E-01	0	1.23E-01	-8.53E-03
	HTP-c[1]	CTUh	1.08E-09	0.00E+00	2.00E-12	0.00E+00	3.90E-11	2.00E-12	0.00E+00	0	5.00E-12	0.00E+00
	HTP-nc[1]	CTUh	8.18E-08	1.19E-09	6.20E-11	2.10E-10	2.11E-09	8.70E-11	2.10E-10	0	8.90E-11	-9.00E-12
	SQP[1]	dimensionless	3.36E+00	1.02E+00	-1.94E-02	1.82E-01	9.85E-02	2.41E-02	1.82E-01	0	8.69E-01	-1.05E-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*10-3 = 0,009"
*INA Indicator Not Assessed

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	7.10E-01	2.09E-02	8.56E-02	3.72E-03	1.74E-02	1.85E-02	3.72E-03	0	8.08E-03	-9.69E-03
	PERM	MJ	4.58E-01	0.00E+00	0.00E+00	0.00E+00	-4.44E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00
	PERT	MJ	1.17E+00	2.09E-02	8.56E-02	3.72E-03	-4.27E-01	1.85E-02	3.72E-03	0	8.08E-03	-9.69E-03
	PENRE	MJ	9.53E+00	1.46E+00	6.18E-02	2.60E-01	2.81E-01	1.02E-01	2.60E-01	0	2.26E-01	-1.57E-03
	PENRM	MJ	7.56E-01	0.00E+00	0.00E+00	0.00E+00	-7.38E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00
	PENRT	MJ	1.03E+01	1.46E+00	6.18E-02	2.60E-01	-4.57E-01	1.02E-01	2.60E-01	0	2.26E-01	-1.57E-03
	SM	kg	3.07E-03	0.00E+00	0.00E+00	0.00E+00	4.33E-06	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00
	RSF	MJ	8.33E-03	7.48E-04	1.80E-05	1.33E-04	2.20E-04	5.78E-03	1.33E-04	0	1.68E-04	-1.70E-06
	NRSF	MJ	2.24E-03	2.67E-03	2.38E-05	4.75E-04	1.13E-04	1.87E-05	4.75E-04	0	3.62E-04	-5.74E-04
	FW	m^3	6.63E-03	1.56E-04	6.66E-04	2.78E-05	2.67E-04	4.63E-05	2.78E-05	0	2.78E-04	-1.17E-05

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"
*INA Indicator Not Assessed

End of life - Waste

Indicator		Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
	HWD	kg	2.39E-02	7.53E-05	1.04E-03	1.34E-05	1.28E-04	1.01E-05	1.34E-05	0	0.00E+00	-7.37E-08
	NHWD	kg	1.39E+00	7.10E-02	1.55E-03	1.26E-02	2.44E-02	4.28E-04	1.26E-02	0	1.00E+00	-3.71E-05
	RWD	kg	1.97E-05	9.95E-06	5.93E-08	1.77E-06	4.95E-07	4.11E-07	1.77E-06	0	0.00E+00	-8.21E-09

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"
*INA Indicator Not Assessed

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	3.14E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00
	MFR	kg	0.00E+00	0.00E+00	6.19E-04	0.00E+00	9.09E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00
	MER	kg	0.00E+00	0.00E+00	4.81E-03	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00
	EEE	MJ	0.00E+00	0.00E+00	2.93E-03	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00
	EET	MJ	0.00E+00	0.00E+00	4.43E-02	0.00E+00	2.02E-02	0.00E+00	0.00E+00	0	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"
*INA Indicator Not Assessed

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	1.36E-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, low voltage, 100% hydro, certificate, 01.01.2023-31.12.2023, Germany (kWh)	Modified ecoinvent 3.6	60,95	g CO2-eq/kWh

Dangerous substances

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

Indoor environment

Not relevant.

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	5.30E-01	9.67E-02	8.00E-03	1.72E-02	1.53E-02	8.19E-03	1.72E-02	0	8.21E-03	-1.12E-04

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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