

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Sto-InnoDrain



The Norwegian EPD Foundation

Owner of the declaration:

Sto SE & Co. KGaA

Product:

Sto-InnoDrain

Declared unit:

1 m²

This declaration is based on Product Category Rules:

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

NPCR 012:2022 Part B for Thermal insulation products

Program operator:

The Norwegian EPD Foundation

Declaration number:

NEPD-8428-8099-EN

Registration number:

NEPD-8428-8099-EN

Issue date: 10.12.2024

Valid to: 10.12.2029

EPD software:

LCAno EPD generator ID: 643679

General information

Product

Sto-InnoDrain

Program operator:

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

Declaration number:

NEPD-8428-8099-EN

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR.
NPCR 012:2022 Part B for Thermal insulation products

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.

Declared unit:

1 m² Sto-InnoDrain

Declared unit with option:

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

Functional unit:

1 m² with 33 mm thickness at R=1 m²K/W. Weight per declared unit is 0,759 kg at density 23 kg/m³ and thickness 33 mm.

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

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)

Owner of the declaration:

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

Manufacturer:

Sto Scandinavia AB
Gesällgatan 6
SE-582 77 Linköping, Sweden

Place of production:

Linköping
Gesällgatan 6
SE-582 77 Linköping, Sweden

Management system:

ISO 14001; ISO 50001; ISO 9001

Organisation no:

DE142834082

Issue date:

10.12.2024

Valid to:

10.12.2029

Year of study:

2023

Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804:2012+A2:2019 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 Norway. NEPDT143

Developer of EPD: Karin Bromoe

Reviewer of company-specific input data and EPD: Angelica Hultin

Approved:



Håkon Hauan, CEO EPD-Norge

Product

Product description:

Sto-InnoDrain is an insulation board of expanded polystyrene according to EN 13163 with a drainage effect.

Sto-InnoDrain is used as a facade insulation board intended for outdoor use, in StoTherm Vario D or in other StoTherm facade systems exposed to moisture. The board should be glued or plugged and glued on the facade.

Sto-InnoDrain is manufactured by heating polystyrene grains, containing approximately 5% pentane, with steam. The polystyrene grains expand until they contain 98% of air. The pre-expanded polystyrene will first be dried, before mixing with additional materials. The EPS-mixture is thereafter dried and moulded under compression. After the stabilization phase, the products are ready for packaging and labelling. Sto-InnoDrain boards which don't pass the quality control at the production site, are recycled into new Sto-InnoDrain boards.

Sto-InnoDrain is provided in several thicknesses. The average density of Sto-InnoDrain boards with thickness between 30 mm - 200 mm is approximately 23 kg/m³.

Weight per declared unit is 0,759 kg with density of 23 kg/m³ and thickness of 33 mm.

Please use the conversion table in this EPD, page 4, for other thicknesses than the declared unit.

Product specification

Materials	Value	Unit
Expanded polystyrene	< 70	%
Binders	10-25	%
Additive	10-25	%
Packaging	0.5-3	%

Technical data:

Thermal conductivity = 0,033 W/(m*K)

Fire class: E according to EN 13501-1

Format: 120 x 60 cm

Typical thickness: 30 mm - 200 mm

Market:

Germany, Sweden, Norway and Finland.

Reference service life, product

If applied correctly, the lifetime of EPS insulation is equal to building life time without requiring maintenance.

Reference service life, building or construction works

The reference service life of the building is set to be minimum 60 years in this EPD.

LCA: Calculation rules

Declared unit:

1 m² Sto-InnoDrain

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+A2. 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
Binders and Resins	ecoinvent 3.6	Database	2019
Chemical	ecoinvent 3.6	Database	2019
Packaging - Plastic	ecoinvent 3.6	Database	2019
Packaging - Polystyrene	ecoinvent 3.6	Database	2019
Plastic - Polystyrene expandable (EPS)	Plastics Europe + ecoinvent 3.6	European average.	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-grave" but with exclusion of the use stage (B1-B7). Stage B1-B7 is not applicable for this thermal insulation product. Sto-InnoDrain does not require any actions or maintenance operations during the use stages. The following modules have been considered:

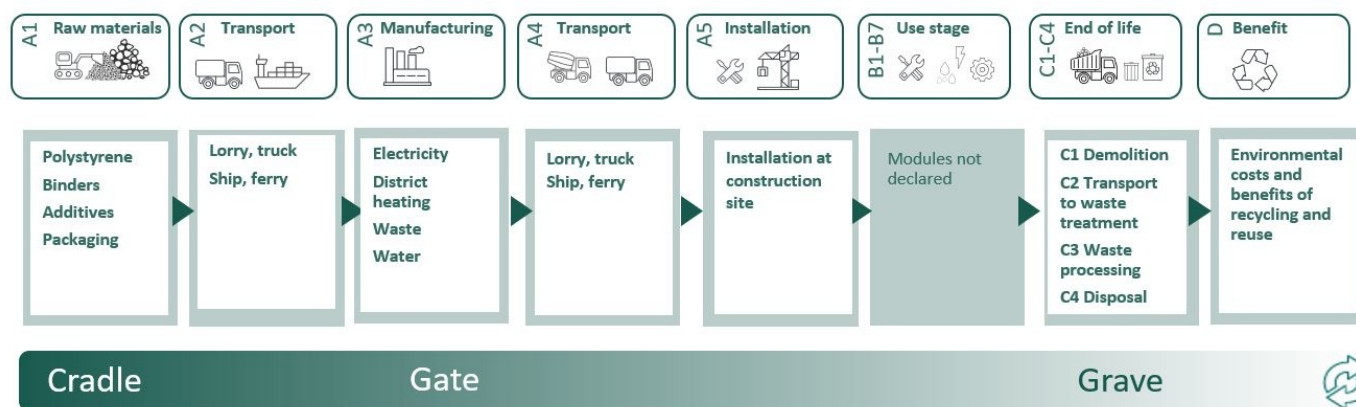
A1, A2, A3 (Product stages): Extraction and transport of raw materials, including packaging, and manufacturing process

A4 (Transport to market): Transportation from manufacturing plant to customer

A5 (Assembly): Installation at construction site

C1, C2, C3, C4 (End of life stages): Deconstruction, demolition, transport to waste processing, waste processing for reuse, recovery and/or recycling and disposal

D (Benefits and loads beyond the system boundaries): Reuse/recovery/recycling potential



Conversion factors to other thicknesses

The LCA results for the insulation material declared in this EPD refer to Sto-InnoDrain with a thickness of 33 mm. To calculate the results for different thickness the factors in the following table can be used. If you need a conversion factor to other thicknesses than the listed in the table above, example 60 mm, you take 60 mm / 33 mm = 1,82

	33 mm	50 mm	100 mm	150 mm	200 mm	1 m ³
Sto-InnoDrain	1,00	1,52	3,03	4,55	6,06	30,30

Additional technical information:

The waste key for unused product is 17 06 04 Insulation material other than those covered by 17 06 01 och 17 06 03.

LCA: Scenarios and additional technical information

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

A4 (Transport to market/building site): An average distance is calculated based on the production site in Linköping and transport to customers in Stockholm and Stühlingen in Germany. The average distance is 200 km by (Truck 16-32 tonnes), 1418 km by (Truck 16-32 tonnes) HVO100 and Ferry 153 km. About 50% of all produced Sto-InnoDrain is sold to Germany. This has been taken into account in the LCA calculation.

A5 (Installation): The product is applied according to the specification in the technical data sheet at the building site. Installation is generally done manually. Electricity for applying screws with drilling machine when applying the board with plug has not been taken into account in this LCA. Outputs are small amounts of waste from the product itself (assumed to be less than 3%) and waste from packaging materials.

C1 (De-construction, demolition): In this LCA it is assumed that Sto-InnoDrain is dismantled manually.

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).

C3, C4 (Waste processing): The insulation board is not classified as hazardous waste. In this LCA we have assumed a typical waste scenario that is incineration.

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 included.

Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Ship, Ferry, Sea (kgkm)	50,0 %	153	0,034	l/tkm	5,20
Truck, 16-32 tonnes, EURO 6 (kgkm)	36,7 %	200	0,043	l/tkm	8,60
Truck, 16-32 tonnes, HVO, EURO 6 (kgkm) - RER	36,7 %	1418	0,043	l/tkm	60,97
Assembly (A5)	Unit	Value			
Material loss, including waste treatment (psc)	Units/DU	0,02			
Waste, packaging, polystyrene, for incineration (kg)	kg	0,00			
Waste, packaging, plastic film (LDPE), to average treatment (kg)	kg	0,01			
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	0,043	l/tkm	4,30
Waste processing (C3)	Unit	Value			
Waste treatment per kg Expanded Polystyrene (EPS), incineration - C3 (kg)	kg/DU	0,76			
Disposal (C4)	Unit	Value			
Landfilling of ashes from incineration of expanded polystyrene (EPS), process per kg ashes and residues (kg)	kg	0,03			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of electricity, in Norway (MJ)	MJ	0,00			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	0,07			
Substitution of electricity (MJ)	MJ	0,00			
Substitution of thermal energy, district heating (MJ)	MJ	0,00			
Substitution of thermal energy, district heating (MJ)	MJ	17,47			
Substitution of electricity (MJ)	MJ	1,15			

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	1,92E+00	9,37E-02	1,56E-01	4,02E-02	8,79E-03	0	1,26E-02	2,41E+00	1,73E-03	-1,05E-01
	GWP-fossil	kg CO ₂ -eq	1,91E+00	9,36E-02	1,54E-01	4,01E-02	8,79E-03	0	1,25E-02	2,41E+00	1,73E-03	-1,02E-01
	GWP-biogenic	kg CO ₂ -eq	7,79E-03	4,16E-05	6,29E-04	4,26E-05	1,28E-07	0	5,19E-06	2,22E-05	8,98E-07	-2,10E-04
	GWP-luluc	kg CO ₂ -eq	7,48E-04	3,32E-05	1,63E-03	4,14E-05	4,80E-08	0	4,46E-06	3,14E-06	2,53E-07	-3,50E-03
	ODP	kg CFC11-eq	3,62E-08	2,23E-08	1,30E-08	8,49E-09	3,60E-11	0	2,84E-09	1,90E-09	1,69E-10	-7,41E-03
	AP	mol H ⁺ -eq	5,06E-03	5,37E-04	2,28E-04	3,96E-04	1,62E-06	0	3,60E-05	2,89E-04	5,79E-06	-8,38E-04
	EP-FreshWater	kg P -eq	1,54E-05	7,74E-07	2,39E-06	9,00E-07	1,67E-09	0	1,00E-07	1,92E-07	2,36E-08	-9,04E-06
	EP-Marine	kg N -eq	1,02E-03	1,26E-04	4,28E-05	9,91E-05	1,04E-06	0	7,13E-06	1,38E-04	1,78E-06	-2,74E-04
	EP-Terrestrial	mol N -eq	1,19E-02	1,41E-03	5,33E-04	1,10E-03	7,34E-06	0	7,98E-05	1,48E-03	2,03E-05	-2,96E-03
	POCP	kg NMVOC-eq	4,13E-03	4,59E-04	1,91E-02	3,42E-04	1,96E-06	0	3,06E-05	3,55E-04	5,59E-06	-8,17E-04
	ADP-minerals&metals ¹	kg Sb-eq	3,33E-05	1,72E-06	1,24E-06	2,96E-06	2,94E-09	0	3,46E-07	9,14E-08	8,72E-09	-1,01E-06
	ADP-fossil ¹	MJ	5,45E+01	1,51E+00	3,07E+00	7,19E-01	2,61E-03	0	1,90E-01	1,56E-01	1,46E-02	-1,45E+00
	WDP ¹	m ³	9,72E+00	1,18E+00	2,98E+02	1,52E+00	8,82E-03	0	1,83E-01	4,65E-01	1,67E-01	-1,81E+01

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	3,87E-08	8,60E-09	1,67E-09	5,84E-09	1,50E-11	0	7,68E-10	1,23E-09	6,80E-11	-5,08E-08
 IRP ²	kgBq U235 -eq	5,43E-02	6,54E-03	1,01E-01	2,64E-03	1,03E-05	0	8,29E-04	2,85E-04	7,06E-05	-9,29E-03
 ETP-fw ¹	CTUe	2,14E+02	1,12E+00	1,72E+00	8,40E-01	3,26E-03	0	1,41E-01	3,72E-01	2,92E-02	-7,91E+00
 HTP-c ¹	CTUh	8,22E-10	0,00E+00	7,50E-11	0,00E+00	0,00E+00	0	0,00E+00	1,02E-10	1,00E-12	-1,44E-10
 HTP-nc ¹	CTUh	2,84E-08	1,14E-09	1,81E-09	1,30E-09	1,60E-11	0	1,54E-10	4,03E-09	5,50E-11	-7,58E-09
 SQP ¹	dimensionless	2,74E+00	1,72E+00	1,33E+00	9,76E-01	3,76E-03	0	1,33E-01	2,03E-02	4,03E-02	-9,72E+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"

*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	5,61E-01	1,97E-02	1,42E+00	2,35E-02	6,89E-05	0	2,71E-03	5,22E-03	9,25E-04	-8,98E+00
 PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
 PERT	MJ	5,61E-01	1,97E-02	1,42E+00	2,35E-02	6,89E-05	0	2,71E-03	5,22E-03	9,25E-04	-8,98E+00
 PENRE	MJ	3,38E+01	1,51E+00	3,07E+00	7,19E-01	2,61E-03	0	1,90E-01	1,56E-01	1,46E-02	-1,45E+00
 PENRM	MJ	2,22E+01	0,00E+00	0,00E+00	0,00E+00	-3,68E-01	0	0,00E+00	-2,18E+01	0,00E+00	0,00E+00
 PENRT	MJ	5,60E+01	1,51E+00	3,07E+00	7,19E-01	-3,65E-01	0	1,90E-01	-2,17E+01	1,46E-02	-1,45E+00
 SM	kg	1,37E-03	0,00E+00	8,36E-05	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
 RSF	MJ	1,19E-02	6,76E-04	7,06E-03	7,68E-04	1,83E-06	0	9,71E-05	1,46E-04	2,29E-05	-1,57E-03
 NRSF	MJ	8,59E-04	2,20E-03	1,88E-02	2,61E-03	8,24E-06	0	3,47E-04	0,00E+00	2,72E-03	-5,33E-01
 FW	m ³	4,51E-02	1,80E-04	2,90E-02	2,07E-04	2,56E-06	0	2,03E-05	6,99E-04	1,34E-05	-1,08E-02

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	3,33E-03	8,56E-05	1,32E-03	7,58E-05	0,00E+00	0	9,78E-06	0,00E+00	2,26E-02	-6,84E-05
	NHWD	kg	7,81E-02	1,31E-01	1,24E-02	7,59E-02	8,90E-03	0	9,22E-03	0,00E+00	1,48E-02	-3,44E-02
	RWD	kg	1,25E-05	1,02E-05	4,47E-05	3,66E-06	0,00E+00	0	1,29E-06	0,00E+00	8,77E-08	-7,61E-06

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

"Reading example: 9,0 E-03 = $9,0 \cdot 10^{-3}$ = 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	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	MFR	kg	0,00E+00	0,00E+00	2,68E-03	0,00E+00	3,22E-03	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	MER	kg	0,00E+00	0,00E+00	4,15E-04	0,00E+00	2,60E-03	0	0,00E+00	7,59E-01	0,00E+00	0,00E+00
	EEE	MJ	0,00E+00	0,00E+00	5,81E-02	0,00E+00	4,58E-03	0	0,00E+00	1,15E+00	0,00E+00	0,00E+00
	EET	MJ	0,00E+00	0,00E+00	8,79E-01	0,00E+00	6,93E-02	0	0,00E+00	1,75E+01	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 = $9,0 \cdot 10^{-3}$ = 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	0,00E+00

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, Sweden (kWh)	ecoinvent 3.6	54,94	g CO ₂ -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	1,91E+00	9,37E-02	1,56E-01	4,02E-02	8,79E-03	0	1,26E-02	2,41E+00	1,80E-03	-1,04E-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.

Bibliography

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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.

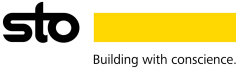
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NPCR Part A: Construction products and services. Ver. 2.0. April 2021, EPD-Norge.

NPCR 012 Part B for Part B for Thermal insulation products, Ver. 2.0, 31.03.2022, EPD Norway.

 Global program operator	Program operator and publisher The Norwegian EPD Foundation Post Box 5250 Majorstuen, 0303 Oslo, Norway	Phone: +47 977 22 020 e-mail: post@epd-norge.no web: www.epd-norge.no
 Building with conscience.	Owner of the declaration: Sto SE & Co. KGaA Ehrenbachstraße 1, 79780 Stühlingen, Germany	Phone: +49 7744571010 e-mail: infoservice@sto.com web: https://www.sto.com/
	Author of the Life Cycle Assessment LCA.no AS Dokka 6A, 1671 Kråkerøy, Norway	Phone: +47 916 50 916 e-mail: post@lca.no web: www.lca.no
	Developer of EPD generator LCA.no AS Dokka 6A, 1671 Kråkerøy, Norway	Phone: +47 916 50 916 e-mail: post@lca.no web: www.lca.no
	ECO Platform ECO Portal	web: www.eco-platform.org web: ECO Portal