

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Sto-Strukturputz K/R



Owner of the declaration:

Sto SE & Co. KGaA

Product:

Sto-Strukturputz K/R

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-17593-21999

Issue date:

07.09.2026

Valid to:

07.09.2031

EPD software:

LCAno EPD generator ID: 1730202

General information

Product

Sto-Strukturputz K/R

Program operator:

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

Declaration number:

NEPD-17593-21999

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 Sto-Strukturputz K/R

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. NEPD73

Third party verifier:

Linda Høibye, Life Cycle Assessment Consulting

(no signature required)

Owner of the declaration:

Sto SE & Co. KGaA
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Manufacturer:

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

Place of production:

Donaueschingen
August-Fischbach-Straße 4
78166 Donaueschingen, Germany

Management system:

ISO 14001; ISO 50001; ISO 9001

Organisation no:

DE142834082

Issue date:

07.09.2026

Valid to:

07.09.2031

Year of study:

2023

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 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. NEPD73

Developer of EPD: Linus Kaltenbach

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

Approved:



Håkon Hauan, CEO EPD-Global

Product

Product description:

Sto-Strukturputz K/R is a mineral finishing render in accordance with EN 998-1 for exterior and interior application. It can be used on all mineral substrates and is suitable for Sto facade insulation systems with mineral base coats and as a finishing render for external wall insulation systems. Sto-Strukturputz K/R can be applied manually or by machine.

Due to the use of different sized filler material, the products texture differs:

Sto-Strukturputz K for a stippled render texture.

Sto-Strukturputz R for a rilled render texture.

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 998-1:2016 coloured plastering mortar (CR) CS II

Onto walls, ceilings, pillars, and separating walls in exteriors and interiors and the CE-marking. For the application and use the respective national provisions apply.

Product specification

The composition of the mixed product is stated in the following table:

Materials	Value	Unit
Powdered limestone	< 70	%
Lime cement	< 25	%
Additives	< 4	%
Silica sand	< 20	%

Technical data:

Information on the technical data of Sto-Strukturputz K/R as well as the mixing and application process can be found in the Technical Data Sheet on www.sto.de for Germany or on the country specific product page.

Criterion	Standard / test specification	Value/ Unit
Mortar class	EN 998-1:2016	CS II
Mortar class	DIN 18550-1/-2	P II
Bulk density of hardened mortar	EN 1015-10	1.4 g/cm ³ (K); 1.38 g/cm ³ (R)
Flexural strength	EN 1015-11	1.3 N/mm ² (K); 1.5 N/mm ² (R)
Compressive strength	EN 1015-11	2.5 N/mm ² (K); 3.5 N/mm ² (R)
Water vapour diffusion equivalent air layer thickness μ	DIN EN 1015-19	<= 20

Market:

Europe

Reference service life, product

The service life of Sto-Strukturputz K/R is 50 years in accordance with the BBSR table "Service lives of components for life cycle assessment according to BNB". Experience shows that if used as intended and installed correctly, the working life of reinforcing mortar/ base coat is 50 years and longer.

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

Reference service life, building

Not relevant

LCA: Calculation rules

Declared unit:

1 kg Sto-Strukturputz K/R

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.

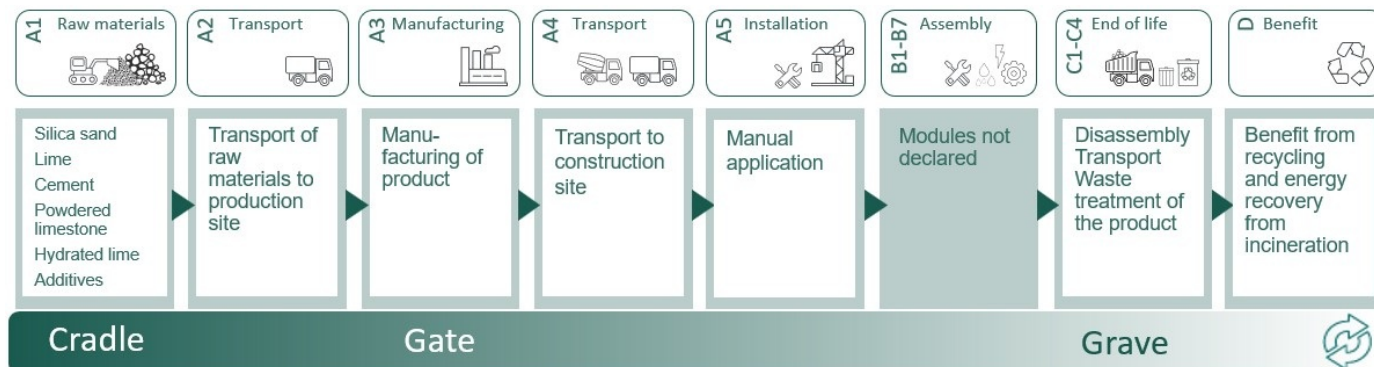
Materials	Source	Data quality	Year
Additives	CEPE RM Database v3.0	Database	2016
Binders and Resins	CEPE RM Database v3.0	Database	2016
Cement	ecoinvent 3.6	Database	2019
Fillers	ecoinvent 3.6	Database	2019
Packaging - Plastic	ecoinvent 3.6	Database	2019
Packaging - Wood	Modified ecoinvent 3.6	Database	2019
Pigments	CEPE RM Database v3.0	Database	2016
Pigments and Fillers	CEPE RM Database v3.0	Database	2016
Plastic - Polypropylene (PP)	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 EPD is cradle to gate with options, modules C1-C4 and module D. No actions are necessary during User stage.



Additional technical information:

The waste code for the unused product is 17 09 03* other construction and demolition wastes (including mixed wastes) containing hazardous substances. When used as recommended, the waste code can be selected according to the code of the European Waste Catalogue (EWC).

Information regarding the impact of the product on the environment can be found in the Safety Data Sheet Section 12: Ecological Information.

Information on ingredients and emissions for certification in accordance with BREEAM, LEED, EU taxonomy, etc. can be found in the corresponding Sustainability Data Sheets.

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): Since the distance to the construction site can vary strongly, a distance of 500 km is used to allow simple scaling for individual projects.

A5 (Installation): The product is applied according to the specification in the technical data sheet at the building site. A stirrer is used to mix Sto-Strukturputz K/R with water. The application process is done manually. Outputs are small amounts of waste from the product itself (assumed to be a maximum of 5 %) and waste from packaging materials.

C1 (De-construction, demolition): It is assumed that Sto-Strukturputz K/R 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): Sto-Strukturputz K/R 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. In accordance with the PCR it is assumed to be 90% landfill and 10% recycling.

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

B1-B7: Once installation is complete, no actions or technical operations are required during the use stage until the end of life stage.

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 %	500.00	0.043	l/tkm	21.50
Assembly (A5)	Unit	Value			
Waste, packaging, pallet, EUR wooden pallet, reusable, average treatment (kg)	kg	0.022			
Tap water (kg)	kg	0.28			
Material loss, including waste treatment (psc)	Units	0.05			
Waste, packaging, plastic, Big bag, 500kg, to average treatment (kg)	kg	0.002			
Electricity, Germany (kWh)	kWh	0.000278			
De-construction demolition (C1)	Unit	Value			
Diesel (L)	L	0.000756			
Demolition of building per kg of cement-based product, C1 (kg)	kg	1.00			
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
Waste processing (C3)	Unit	Value			
Waste treatment of cement-based product after demolition to recycling (kg)	kg	0.10			
Disposal (C4)	Unit	Value			
Waste, inert waste, to landfill (kg)	kg	0.90			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of electricity (MJ)	MJ	0.0007589			
Substitution of thermal energy, district heating (MJ)	MJ	0.01148			
Substitution of primary aggregates with crushed recycled cement-based products (kg)	kg	0.10			

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	3.66E-01	4.83E-02	2.24E-02	8.37E-02	6.12E-02	2.67E-03	1.67E-02	7.20E-05	7.39E-03	-3.03E-04
	GWP-fossil	kg CO ₂ -eq	3.99E-01	4.83E-02	2.00E-02	8.36E-02	2.93E-02	2.67E-03	1.67E-02	7.10E-05	7.38E-03	-2.95E-04
	GWP-biogenic	kg CO ₂ -eq	-3.27E-02	2.00E-05	7.27E-04	3.46E-05	3.18E-02	5.01E-07	6.92E-06	6.13E-07	8.62E-06	-4.71E-06
	GWP-luluc	kg CO ₂ -eq	2.23E-05	1.72E-05	1.67E-03	2.98E-05	8.80E-05	2.11E-07	5.95E-06	9.83E-08	1.81E-06	-2.45E-06
	ODP	kg CFC11-eq	1.74E-07	1.09E-08	2.49E-09	1.89E-08	1.07E-08	5.77E-10	3.79E-09	1.40E-11	2.80E-09	-4.85E-06
	AP	mol H ⁺ -eq	3.09E-03	1.39E-04	2.38E-05	2.40E-04	1.83E-04	2.80E-05	4.81E-05	5.75E-07	6.57E-05	-2.61E-06
	EP-FreshWater	kg P -eq	1.77E-04	3.86E-07	1.11E-07	6.68E-07	8.95E-06	9.73E-09	1.34E-07	4.49E-09	8.37E-08	-1.20E-08
	EP-Marine	kg N -eq	5.20E-04	2.75E-05	6.07E-06	4.76E-05	3.28E-05	1.23E-05	9.51E-06	1.68E-07	2.44E-05	-8.94E-07
	EP-Terrestrial	mol N -eq	5.29E-03	3.07E-04	6.03E-05	5.32E-04	3.39E-04	1.35E-04	1.06E-04	1.94E-06	2.69E-04	-1.03E-05
	POCP	kg NMVOC-eq	1.39E-03	1.18E-04	2.02E-05	2.04E-04	9.54E-05	3.72E-05	4.08E-05	5.20E-07	7.71E-05	-2.75E-06
	ADP-minerals&metals ¹	kg Sb-eq	2.29E-04	1.33E-06	8.20E-08	2.31E-06	1.17E-05	4.10E-09	4.62E-07	9.01E-10	6.65E-08	-2.10E-08
	ADP-fossil ¹	MJ	3.42E+00	7.30E-01	2.74E-01	1.26E+00	3.14E-01	3.68E-02	2.53E-01	2.21E-03	2.03E-01	-4.82E-03
	WDP ¹	m ³	2.97E+00	7.07E-01	1.45E+01	1.22E+00	1.11E+00	7.81E-03	2.45E-01	2.43E-01	1.25E+00	-1.93E-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"

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.

Not relevant

Additional environmental impact indicators

Indicator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
 PM	Disease incidence	5.31E-08	2.96E-09	1.54E-10	5.12E-09	3.24E-09	7.39E-10	1.02E-09	9.00E-12	1.40E-09	-7.70E-11
 IRP ²	kgBq U235 -eq	1.04E+02	3.19E-03	1.61E-04	5.53E-03	5.19E+00	1.58E-04	1.11E-03	3.70E-05	9.27E-04	-4.16E-05
 ETP-fw ¹	CTUe	6.70E+00	5.41E-01	1.04E-01	9.37E-01	4.35E-01	2.01E-02	1.87E-01	1.56E-03	1.11E-01	-9.17E-03
 HTP-c ¹	CTUh	7.38E-10	0.00E+00	7.00E-12	0.00E+00	3.80E-11	1.00E-12	0.00E+00	0.00E+00	5.00E-12	0.00E+00
 HTP-nc ¹	CTUh	2.58E-07	5.89E-10	1.11E-10	1.02E-09	1.30E-08	1.80E-11	2.05E-10	1.00E-12	8.00E-11	-1.00E-11
 SQP ¹	dimensionless	6.96E+00	5.11E-01	-2.87E-02	8.84E-01	4.67E-01	4.67E-03	1.77E-01	1.25E-03	7.82E-01	2.43E-03

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 = $9.0 \cdot 10^{-3}$ = 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	9.44E-01	1.05E-02	1.66E-01	1.81E-02	5.81E-02	1.99E-04	3.62E-03	1.14E-03	7.27E-03	-6.79E-03
	PERM	MJ	3.05E-01	0.00E+00	0.00E+00	0.00E+00	-2.90E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	PERT	MJ	1.25E+00	1.05E-02	1.66E-01	1.81E-02	-2.32E-01	1.99E-04	3.62E-03	1.14E-03	7.27E-03	-6.79E-03
	PENRE	MJ	3.74E+00	7.30E-01	2.74E-01	1.26E+00	3.30E-01	3.68E-02	2.53E-01	2.21E-03	2.03E-01	-5.04E-03
	PENRM	MJ	9.02E-02	0.00E+00	0.00E+00	0.00E+00	-7.01E-02	0.00E+00	0.00E+00	-1.64E-02	0.00E+00	0.00E+00
	PENRT	MJ	3.83E+00	7.30E-01	2.74E-01	1.26E+00	2.60E-01	3.68E-02	2.53E-01	-1.42E-02	2.03E-01	-5.04E-03
	SM	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
	RSF	MJ	1.68E-03	3.74E-04	7.56E-05	6.48E-04	2.95E-04	4.89E-06	1.30E-04	0.00E+00	1.51E-04	-1.96E-05
	NRSF	MJ	1.83E-04	1.34E-03	2.76E-04	2.32E-03	2.70E-04	7.20E-05	4.63E-04	0.00E+00	3.26E-04	-3.68E-04
	FW	m ³	2.92E-02	7.81E-05	1.27E-03	1.35E-04	1.83E-03	1.89E-06	2.70E-05	3.78E-06	2.50E-04	-1.49E-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*10⁻³ = 0.009"

End of life - Waste												
Indicator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D	
	HWD	kg	2.36E-03	3.77E-05	1.89E-03	6.52E-05	2.19E-04	1.08E-06	1.30E-05	2.20E-07	0.00E+00	-9.78E-07
	NHWD	kg	1.45E+00	3.55E-02	2.07E-03	6.15E-02	1.25E-01	4.35E-05	1.23E-02	6.96E-06	9.00E-01	-5.08E-05
	RWD	kg	8.76E-06	4.98E-06	2.22E-07	8.61E-06	1.25E-06	2.55E-07	1.72E-06	2.33E-08	0.00E+00	-3.57E-08

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	2.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MFR	kg	0.00E+00	0.00E+00	4.10E-04	0.00E+00	6.04E-03	0.00E+00	0.00E+00	1.00E-01	0.00E+00	0.00E+00
	MER	kg	0.00E+00	0.00E+00	3.95E-03	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	EEE	MJ	0.00E+00	0.00E+00	2.06E-03	0.00E+00	8.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	EET	MJ	0.00E+00	0.00E+00	3.12E-02	0.00E+00	1.32E-02	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	9.10E-03

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 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	3.99E-01	4.83E-02	2.17E-02	8.37E-02	2.94E-02	2.67E-03	1.67E-02	7.11E-05	7.39E-03	-3.13E-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.

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.

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