

# Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

## StoPur EZ 502



EPD-Global

**Owner of the declaration:**

Sto SE & Co. KGaA

**Product:**

StoPur EZ 502

**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-15629-19493

**Issue date:**

11.05.2026

**Valid to:**

11.05.2031

**EPD software:**

LCAno EPD generator ID: 1515509

## General information

### Product

StoPur EZ 502

### 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-15629-19493

### 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 StoPur EZ 502

### 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:

Elisabet Amat, GREENIZE projects

(no signature required)

### Owner of the declaration:

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

### Manufacturer:

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

### Place of production:

Rottenburg am Neckar  
Graf-Bentzel-Straße 78  
72108 Rottenburg am Neckar, Germany

### Management system:

ISO 14001; ISO 50001; ISO 9001

### Organisation no:

DE142834082

### Issue date:

11.05.2026

### Valid to:

11.05.2031

### Year of study:

2025

### 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.  
NEPD7143

Developer of EPD: Linus Kaltenbach

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

### Approved:



Håkon Hauan, CEO EPD-Global

## Product

### Product description:

StoPur EZ 502 is a wearing course for tested and approved surface protection systems for traffic structures in accordance with EN 1504-2. The product can be used for interior and in areas exposed to the weather.

StoPur EZ 502 is the main effective surface protection layer, element in the tested and approved surface protection systems for multi-storey car parks: StoFloor Traffic Elastic EZ 500 and EZ 502. The product should be applied manually with a squeegee in accordance with the Technical Data sheet.

StoPur EZ 502 is delivered in two components, StoPur EZ 502 Component A and StoPur EZ 502 Component B, which have to be mixed as stated on the technical data sheet before use. This EPD calculates the environmental impact of the correctly mixed product at the construction site.

### Product specification

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

| Materials      | Value | Unit |
|----------------|-------|------|
| Polyisocyanate | < 20  | %    |
| Polyol         | < 30  | %    |
| Mineral Filler | < 40  | %    |
| Castor oil     | < 10  | %    |
| Pigment        | < 2   | %    |
| Additive       | < 4   | %    |

### Technical data:

Information on the technical data of StoPur EZ 502 as well as the mixing and application process can be found in the Technical Data Sheet on [www.sto.de](http://www.sto.de) for Germany as well as the country specific product page.

| Criterion               | Standard / test specification | Value/ Unit            |
|-------------------------|-------------------------------|------------------------|
| Bond strength           | EN 1542                       | > 2.0 MPa              |
| Shore hardness type D   | EN ISO 868                    | 73                     |
| Density (mixture 23 °C) | EN ISO 2811                   | 1.41 g/cm <sup>3</sup> |

### Market:

The market is Europe.

### Reference service life, product

The service life of the product is highly dependent on use, maintenance and exposure. It can be stated that the service life of StoPur EZ 502 is 40 years in interior application according to BBSR (Bundesinstitut für Bau-, Stadt- und Raumforschung).

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

### Reference service life, building

N/A

## LCA: Calculation rules

### Declared unit:

1 kg StoPur EZ 502

### 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.

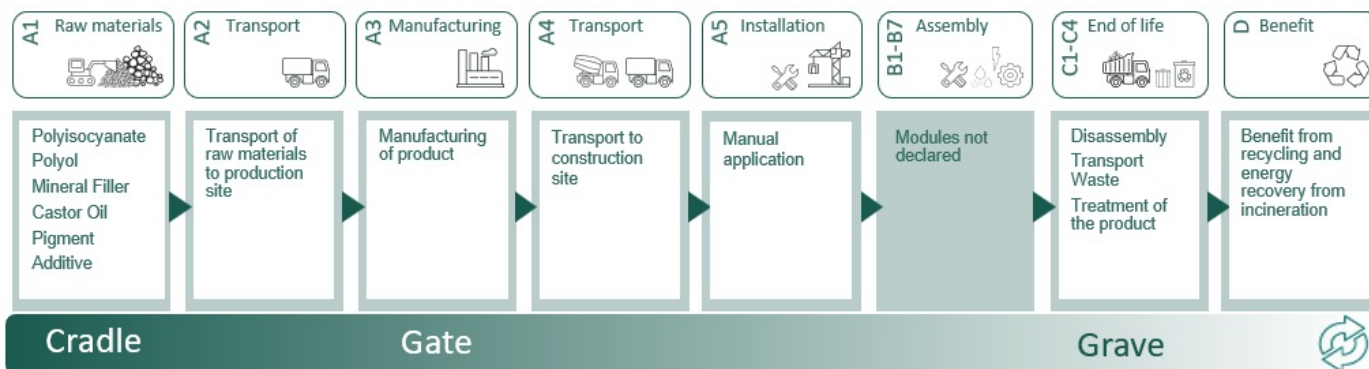
| Materials            | Source                | Data quality | Year |
|----------------------|-----------------------|--------------|------|
| Additives            | CEPE RM Database v3.0 | Database     | 2016 |
| Additives            | ecoinvent 3.6         | Database     | 2019 |
| Binder               | CEPE RM Database v3.0 | Database     | 2016 |
| Binder               | ecoinvent 3.6         | Database     | 2019 |
| Packaging            | ecoinvent 3.6         | Database     | 2019 |
| Pigments and Fillers | CEPE RM Database v3.0 | Database     | 2016 |
| Solvent              | CEPE RM Database v3.0 | Database     | 2016 |
| Wetting agent        | 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:

After application, the product is considered as non-hazardous waste under the European Waste Catalogue (EWC), category 17.09 "Other Construction and Demolition Waste".

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 manually, according to the specification in the Technical Data Sheet at the building site. The mixing process of the two components is done with a slow running stirrer, 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 StoPur EZ 502 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): When used as recommended, StoPur EZ 502 is not classified as hazardous waste and treated as mixed construction waste since it is incorporated in the building structure. A typical End of life scenario for construction waste in Europe is a mix of recycling and landfill. Since an End-of-life scenario has to be declared according to the PCR, it is assumed as 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.

| 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         |                         |       |                     |
| Material loss, including waste treatment (psc)                                      | Units                                 | 0.05          |                         |       |                     |
| Electricity, Germany (kWh)                                                          | kWh                                   | 0.000278      |                         |       |                     |
| Waste, packaging, metal, average treatment (kg)                                     | kg                                    | 0.04          |                         |       |                     |
| 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 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 <sub>2</sub> -eq | 2.76E+00 | 7.81E-02 | 2.52E-02 | 8.50E-02 | 1.49E-01 | 2.67E-03 | 1.70E-02 | 7.20E-05 | 7.39E-03 | -2.34E-04 |
|  | GWP-fossil                       | kg CO <sub>2</sub> -eq | 2.74E+00 | 7.80E-02 | 2.23E-02 | 8.49E-02 | 1.48E-01 | 2.67E-03 | 1.70E-02 | 7.10E-05 | 7.38E-03 | -2.29E-04 |
|  | GWP-biogenic                     | kg CO <sub>2</sub> -eq | 1.29E-02 | 3.23E-05 | 8.90E-04 | 3.52E-05 | 6.94E-04 | 5.01E-07 | 7.03E-06 | 6.13E-07 | 8.62E-06 | -4.57E-06 |
|  | GWP-luluc                        | kg CO <sub>2</sub> -eq | 6.63E-04 | 2.78E-05 | 1.99E-03 | 3.02E-05 | 1.36E-04 | 2.11E-07 | 6.05E-06 | 9.83E-08 | 1.81E-06 | -1.55E-07 |
|  | ODP                              | kg CFC 11-eq           | 8.22E-07 | 1.77E-08 | 2.72E-09 | 1.92E-08 | 4.36E-08 | 5.77E-10 | 3.85E-09 | 1.40E-11 | 2.80E-09 | -4.20E-11 |
|  | AP                               | mol H <sup>+</sup> -eq | 1.26E-02 | 2.24E-04 | 2.76E-05 | 2.44E-04 | 6.62E-04 | 2.80E-05 | 4.88E-05 | 5.75E-07 | 6.57E-05 | -2.06E-06 |
|  | EP-FreshWater                    | kg P -eq               | 2.29E-04 | 6.23E-07 | 1.41E-07 | 6.79E-07 | 1.16E-05 | 9.73E-09 | 1.36E-07 | 4.49E-09 | 8.37E-08 | -6.09E-09 |
|  | EP-Marine                        | kg N -eq               | 2.38E-03 | 4.44E-05 | 7.01E-06 | 4.83E-05 | 1.27E-04 | 1.23E-05 | 9.66E-06 | 1.68E-07 | 2.44E-05 | -7.15E-07 |
|  | EP-Terrestrial                   | mol N -eq              | 2.32E-02 | 4.96E-04 | 6.90E-05 | 5.40E-04 | 1.25E-03 | 1.35E-04 | 1.08E-04 | 1.94E-06 | 2.69E-04 | -8.40E-06 |
|  | POCP                             | kg NMVOC-eq            | 8.24E-03 | 1.90E-04 | 2.30E-05 | 2.07E-04 | 4.43E-04 | 3.72E-05 | 4.14E-05 | 5.20E-07 | 7.71E-05 | -2.22E-06 |
|  | ADP-minerals&metals <sup>1</sup> | kg Sb-eq               | 2.90E-05 | 2.15E-06 | 9.90E-08 | 2.35E-06 | 1.72E-06 | 4.10E-09 | 4.69E-07 | 9.01E-10 | 6.65E-08 | -2.03E-08 |
|  | ADP-fossil <sup>1</sup>          | MJ                     | 4.83E+01 | 1.18E+00 | 2.95E-01 | 1.28E+00 | 2.59E+00 | 3.68E-02 | 2.57E-01 | 2.21E-03 | 2.03E-01 | -3.87E-03 |
|  | WDP <sup>1</sup>                 | m <sup>3</sup>         | 3.60E+01 | 1.14E+00 | 1.73E+01 | 1.24E+00 | 2.90E+00 | 7.81E-03 | 2.48E-01 | 2.43E-01 | 1.25E+00 | -1.82E-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<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

N/A

### Additional environmental impact indicators

| Indicator                                                                                             | Unit              | A1       | A2       | A3        | A4       | A5       | C1       | C2       | C3       | C4       | D         |
|-------------------------------------------------------------------------------------------------------|-------------------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|-----------|
|  PM                  | Disease incidence | 2.07E-07 | 4.78E-09 | 1.93E-10  | 5.20E-09 | 1.11E-08 | 7.39E-10 | 1.04E-09 | 9.00E-12 | 1.40E-09 | -4.40E-11 |
|  IRP <sup>2</sup>    | kgBq U235 -eq     | 2.98E+02 | 5.16E-03 | 1.86E-04  | 5.61E-03 | 1.49E+01 | 1.58E-04 | 1.12E-03 | 3.70E-05 | 9.27E-04 | -3.55E-05 |
|  ETP-fw <sup>1</sup> | CTUe              | 1.53E+02 | 8.74E-01 | 1.32E-01  | 9.52E-01 | 7.75E+00 | 2.01E-02 | 1.90E-01 | 1.56E-03 | 1.11E-01 | -3.99E-03 |
|  HTP-c <sup>1</sup>  | CTUh              | 6.29E-09 | 0.00E+00 | 8.00E-12  | 0.00E+00 | 3.15E-10 | 1.00E-12 | 0.00E+00 | 0.00E+00 | 5.00E-12 | 0.00E+00  |
|  HTP-nc <sup>1</sup> | CTUh              | 1.37E-07 | 9.55E-10 | 1.36E-10  | 1.04E-09 | 7.00E-09 | 1.80E-11 | 2.08E-10 | 1.00E-12 | 8.00E-11 | -5.00E-12 |
|  SQP <sup>1</sup>    | dimensionless     | 6.17E+00 | 8.25E-01 | -3.17E-02 | 8.98E-01 | 4.46E-01 | 4.67E-03 | 1.80E-01 | 1.25E-03 | 7.82E-01 | 8.79E-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             | 2.77E+00 | 1.69E-02 | 1.97E-01 | 1.84E-02 | 1.51E-01 | 1.99E-04 | 3.68E-03 | 1.14E-03  | 7.27E-03 | -9.07E-04 |  |
|  PERM  | MJ             | 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  |  |
|  PERT  | MJ             | 2.77E+00 | 1.69E-02 | 1.97E-01 | 1.84E-02 | 1.51E-01 | 1.99E-04 | 3.68E-03 | 1.14E-03  | 7.27E-03 | -9.07E-04 |  |
|  PENRE | MJ             | 5.20E+01 | 1.18E+00 | 2.95E-01 | 1.28E+00 | 2.77E+00 | 3.68E-02 | 2.57E-01 | 2.21E-03  | 2.03E-01 | -4.09E-03 |  |
|  PENRM | MJ             | 3.12E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -3.12E+00 | 0.00E+00 | 0.00E+00  |  |
|  PENRT | MJ             | 5.51E+01 | 1.18E+00 | 2.95E-01 | 1.28E+00 | 2.77E+00 | 3.68E-02 | 2.57E-01 | -3.12E+00 | 2.03E-01 | -4.09E-03 |  |
|  SM    | kg             | 9.58E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.79E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00  |  |
|  RSF   | MJ             | 2.57E-02 | 6.04E-04 | 9.09E-05 | 6.58E-04 | 1.49E-03 | 4.89E-06 | 1.32E-04 | 0.00E+00  | 1.51E-04 | -1.85E-05 |  |
|  NRSF  | MJ             | 3.97E-02 | 2.16E-03 | 3.87E-04 | 2.35E-03 | 2.28E-03 | 7.20E-05 | 4.70E-04 | 0.00E+00  | 3.26E-04 | -1.91E-05 |  |
|  FW    | m <sup>3</sup> | 3.06E-01 | 1.26E-04 | 1.52E-03 | 1.37E-04 | 1.54E-02 | 1.89E-06 | 2.75E-05 | 3.78E-06  | 2.50E-04 | -1.42E-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 | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D        |           |
|  | HWD  | kg | 1.24E-02 | 6.08E-05 | 2.64E-03 | 6.62E-05 | 7.60E-04 | 1.08E-06 | 1.32E-05 | 2.20E-07 | 0.00E+00 | -9.34E-07 |
|  | NHWD | kg | 8.37E-01 | 5.74E-02 | 2.58E-03 | 6.25E-02 | 1.33E-01 | 4.35E-05 | 1.25E-02 | 6.96E-06 | 9.00E-01 | -2.83E-05 |
|  | RWD  | kg | 4.89E-05 | 8.03E-06 | 2.55E-07 | 8.75E-06 | 3.39E-06 | 2.55E-07 | 1.75E-06 | 2.33E-08 | 0.00E+00 | -3.07E-08 |

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

"Reading example: 9.0 E-03 =  $9.0 \times 10^{-3}$  = 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 | 6.16E-04 | 0.00E+00 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 |
|  | MER  | kg | 0.00E+00 | 0.00E+00 | 5.05E-03 | 0.00E+00 | 2.53E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|  | EEE  | MJ | 0.00E+00 | 0.00E+00 | 2.58E-03 | 0.00E+00 | 1.29E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|  | EET  | MJ | 0.00E+00 | 0.00E+00 | 3.90E-02 | 0.00E+00 | 1.95E-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 =  $9.0 \times 10^{-3}$  = 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 | 0.00E+00            |

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, low voltage, 100% hydro, certificate, 01.01.2023-31.12.2023, Germany (kWh) | Modified ecoinvent 3.6 | 60.95  | g CO <sub>2</sub> -eq/kWh |

### Dangerous substances

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

### Indoor environment

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

## 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 <sub>2</sub> -eq | 2.74E+00 | 7.81E-02 | 2.44E-02 | 8.50E-02 | 1.48E-01 | 2.67E-03 | 1.70E-02 | 7.11E-05 | 7.39E-03 | -2.45E-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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