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# Environmental product declaration

In accordance with ISO 14025 and EN15804+A2

## Rockfon Chicago Metallic 150 mm Bandraster: BRS 150 MR



EPD-Global

**Owner of the declaration:**
Rockfon (Part of ROCKWOOL Group)

**Product:**
Rockfon Chicago Metallic 150 mm Bandraster: BRS 150 MR

**Declared unit:**
1 m

**This declaration is based on Product Category Rules:**
CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 013:2021 Part B for Steel and aluminium construction products

**Program operator:**
EPD-Global

**Declaration number:**
NEPD-17851-22481

**Issue date:**
02.10.2026

**Valid to:**
02.10.2031

**EPD software:**
LCAno EPD generator ID: 1779652

## General information

**Product**

Rockfon Chicago Metallic 150 mm Bandraster: BRS 150 MR

**Owner of the declaration:**

Rockfon (Part of ROCKWOOL Group)
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**Program operator:**

EPD-Global
Post Box 5250 Majorstuen, 0303 Oslo, Norway
Phone: +47 977 22 020
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**Manufacturer:**

Rockfon (Part of ROCKWOOL Group)
ROCKWOOL Denmark A/S, Hovedgaden 501
2640 Hedehusene, Denmark

**Declaration number:**

NEPD-17851-22481

**Place of production:**

ROCKWOOL Belgium NV
Oud Sluisstraat 5
2110 Wijnegem, Belgium

**This declaration is based on Product Category Rules:**

CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 013:2021 Part B for Steel and aluminium construction products

**Management system:**

ISO 9001

**Statement of liability:**

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

**Organisation no:**

DK42391719

**Declared unit:**

1 m Rockfon Chicago Metallic 150 mm Bandraster: BRS 150 MR

**Issue date:**

02.10.2026

**Declared unit with option:**

A1-A3, A4, A5, B1, B2, B3, B4, B5, B6, B7, C1, C2, C3, C4, D

**Valid to:**

02.10.2031

**Year of study:**

2021

**Functional unit:**

Not applicable

**Comparability:**

EPDs of construction products may not be comparable if they do not comply with EN 15804 and are not viewed in a building context.

**General information on verification of EPD from EPD tools:**

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Global's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD-Global, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Global's General Programme Instructions for further information on EPD tools

**Development and verification of EPD:**

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD-Global. Approval number:

Developer of EPD: Roberta Melis

Reviewer of company-specific input data and EPD: Vera Fahed

**Verification of EPD tool:**

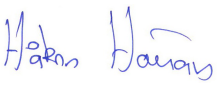
Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPD-Global's procedures and guidelines for verification and approval of EPD tools.

Third party verifier:

Alexander Borg, Asplan Viak AS

(no signature required)

**Approved:**



Håkon Hauan, CEO EPD-Global

## Product

### Product description:

This EPD applies to the Rockfon Chicago Metallic 150mm Bandraster. The product is designed to be installed with Z-profiles, T-hook profiles, or bandrasters. Each combination of these components forms a complete suspended ceiling grid system for the installation and support of ceiling tiles.

### Product specification

The profiles are made from cold-rolled galvanized and coated steel. These profiles' mass is 1.6 kg/lm.
Grid colors: Standard

| Materials | Value | Unit |
|---|---|---|
| Product materials: | | |
| Hot dip galvanised steel | 73 | % |
| Galvanised pre-painted steel | 27 | % |
| Packaging materials: | | |
| Cardboard | 58.5 | % |
| Plastic | 0.4 | % |
| Wood | 41.1 | % |

### Technical data:

The profiles have been assessed according to the suspended ceiling harmonized standard: EN 13964:2014 Suspended ceilings - Requirements and test methods. The technical properties based on this standard are given in Table.

| Property | Value | Ref. Standard |
|---|---|---|
| Reaction to Fire (Standard) | A1 | EN 13964:2014 |
| Load Bearing Capacity | Adm M 120 Nm | EN 13964:2014 |
| Durability Class | B | EN 13964:2014 |

### Market:

The profiles are supplied to Rockfon customers in Europe and Asia and in other export markets, excluding North America

### Reference service life, product

The Chicago Metallic profiles are durable and designed to perform throughout the building's lifetime. For the purpose of this EPD, a reference service life of 50 years is assumed—typical for buildings where the system is installed. The profiles are not expected to be replaced within this period, it is expected that their lifespan may exceed 50 years. Replacement driven by aesthetic or interior design changes, such as ceiling tile updates, is not considered.

### Reference service life, building or construction works

Reference service life of a building is considered to be 50 years.

## LCA: Calculation rules

### Declared unit:

1 m Rockfon Chicago Metallic 150 mm Bandraster: BRS 150 MR

### 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.

All major raw materials and all the essential energy are included. The production process for raw materials and energy flows that are included with very small amounts (<1% energy, mass, impact) are not included. This cut-off rule does not apply for hazardous materials and substances. Data sets are complete according to the system boundary within the limits set by the criteria for the exclusion of inputs and outputs. All relevant data, all applied materials according to the recipe and the energy used, originate from the production data and have been considered within the inventory analysis.

### 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. The allocation is made in accordance with the provisions of EN 15804. Production activities, electricity and energy consumption and waste generation are allocated equally among all products from the production site through mass allocation.

### 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.
All data represents the applicable geography, time and technology for the specific and generic data, generally assessed as good and very good. Primary data is collected from respective production site in Belgium for the reference year 2020. Generic data is from GaBi database (version 2021) with GaBi Software version 10.0.1.92 used for calculations. The raw materials data is from reference year 2019 or 2020 according to the database documentation.

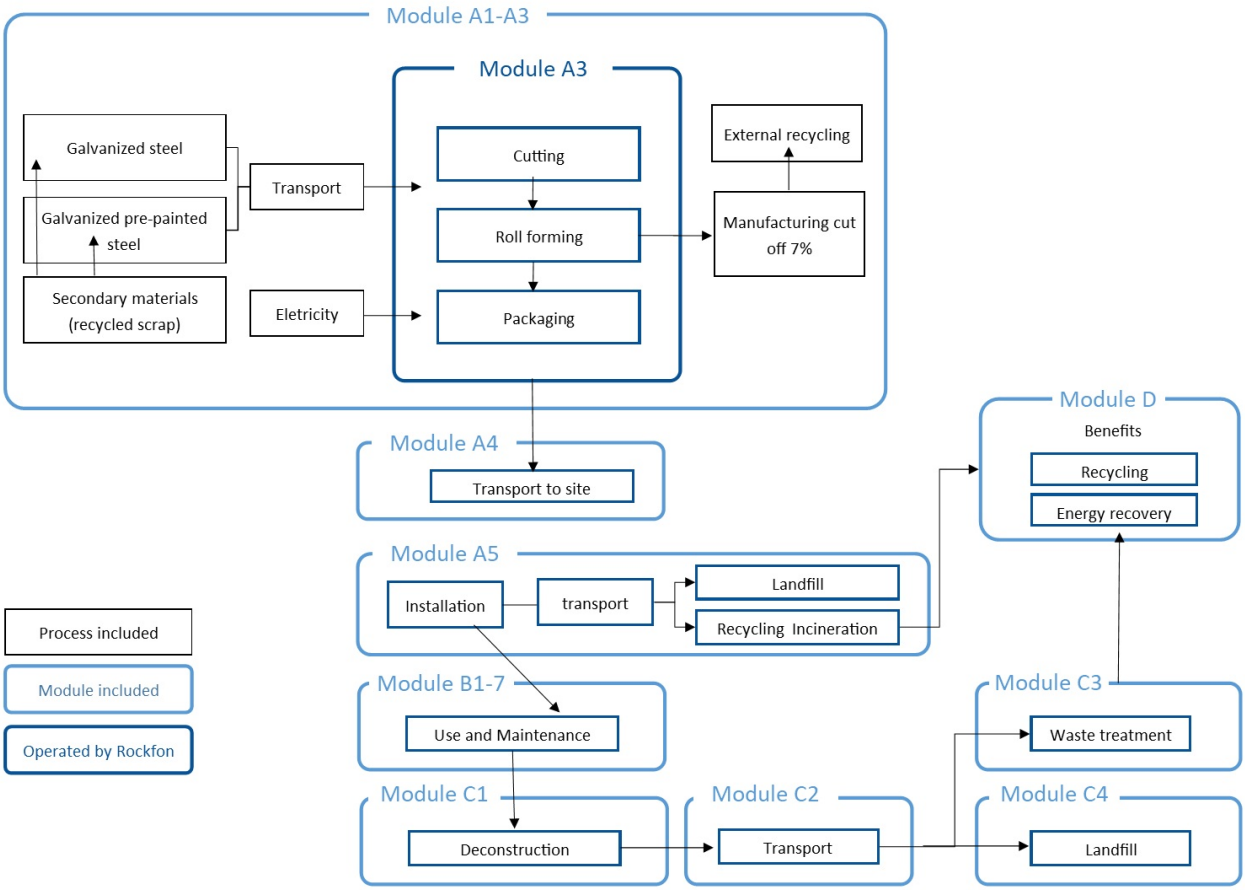
| Materials | Source | Data quality | Year |
|---|---|---|---|
| Packaging | NEPD-3343-1979-EN | EPD | 2021 |

## 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 | X | X | X | X | X | X | X | X | X | X | X | X |

### System boundary:

The LCA is a cradle-to-grave study, addressing all life cycle stages identified in the EN15804. All major raw materials, energy, electricity use and waste are included for all life cycle modules, see flowchart below. There are no environmental impacts at the use stage.




### Additional technical information:

## LCA: Scenarios and additional technical information

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

Transport from production place to assembly/user (A4)
The distance in A4 is calculated based on weighted average from the transport statistics of the manufacturer in the reference year. See Table (A4)

Assembly (A5)
Rockfon Chicago Metallic grids are easy to install, using known construction techniques. The installation requires use of handheld tools, some of which are power tools that consume electricity (e.g. electric drill). The packaging waste from installation site is assumed to be treated according to average European statistics packaging waste treatment rates (Eurostat, 2019). Benefits from material recycling and energy recovery from incineration process of plastic and wood packaging are reported under Module D. See Table (A5)

User stage (B1, B2, B3, B4, B5, B6, B7):
There are no consumables, maintenance, repair, replacements or refurbishments related to the use of the metal grids for the period of the reference service life. Rockfon Chicago Metallic grids do not use energy or water during their operational life. There are no emissions released from the product during the use. Replacement of the product due to aesthetic reasons (change of interior design) and not related to the loss of performance is not taken into account. Therefore, modules B1-B7 have zero impacts.

End of Life (C1, C3, C4)
The distance represents an average distance to the landfill or waste treatment facility. See Table (C2), (C3), (C4)

Benefits and loads beyond the system boundaries (D)
Quantities of packaging materials include both recycled materials and materials sent for energy recovery. See Table (D)

| Transport from production place to user (A4) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
|---|---|---|---|---|---|
| Ship, container | 70.0 % | 143.00 | 0.003 | l/tkm | 0.43 |
| Truck, Euro 6, Trucktrailer, 28- 34 t | 85.0 % | 810.00 | 0.017 | l/tkm | 13.77 |

| Assembly (A5) | Unit | Value | | | |
|---|---|---|---|---|---|
| Product loss | kg | 0.016 | | | |
| Electricity consumption | kWh | 0.048 | | | |

| Transport to waste processing (C2) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
|---|---|---|---|---|---|
| Truck, Euro 6 | 50.0 % | 100.00 | 0.030 | l/tkm | 3.00 |

| Waste processing (C3) | Unit | Value | | | |
|---|---|---|---|---|---|
| Recycling | kg | 1.57 | | | |

| Disposal (C4) | Unit | Value | | | |
|---|---|---|---|---|---|
| To landfill | kg | 0.032 | | | |

| Benefits and loads beyond the system boundaries (D) | Unit | Value | | | |
|---|---|---|---|---|---|
| Net scrap steel | kg | 1.30 | | | |
| Cardboard packaging | kg | 0.0512 | | | |
| Plastic packaging | kg | 0.000384 | | | |
| Wood packaging | kg | 0.0352 | | | |

## 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-A3 | A4 | A5 | B1 | B2 | B3 | B4 |
| | GWP-total | kg $CO_2$ -eq | 4.71E+00 | 6.94E-02 | 8.36E-02 | 0 | 0 | 0 | 0 |
| | GWP-fossil | kg $CO_2$ -eq | 4.77E+00 | 6.86E-02 | 2.16E-02 | 0 | 0 | 0 | 0 |
| | GWP-biogenic | kg $CO_2$ -eq | -6.39E-02 | 2.18E-04 | 7.04E-02 | 0 | 0 | 0 | 0 |
| | GWP-luluc | kg $CO_2$ -eq | 1.32E-03 | 5.50E-04 | 3.22E-05 | 0 | 0 | 0 | 0 |
| | ODP | kg CFC11 -eq | 2.00E-12 | 0.00E+00 | 1.40E-11 | 0 | 0 | 0 | 0 |
| | AP | mol H+ -eq | 1.53E-02 | 1.29E-04 | 5.39E-05 | 0 | 0 | 0 | 0 |
| | EP-FreshWater | kg P -eq | 3.03E-06 | 2.00E-07 | 1.82E-07 | 0 | 0 | 0 | 0 |
| | EP-Marine | kg N -eq | 3.46E-03 | 3.65E-05 | 2.00E-05 | 0 | 0 | 0 | 0 |
| | EP-Terrestial | mol N -eq | 3.68E-02 | 4.19E-04 | 1.57E-04 | 0 | 0 | 0 | 0 |
| | POCP | kg NMVOC -eq | 1.14E-02 | 1.02E-04 | 5.02E-05 | 0 | 0 | 0 | 0 |
| | ADP-minerals&metals[1] | kg Sb-eq | 2.57E-05 | 6.10E-09 | 5.70E-09 | 0 | 0 | 0 | 0 |
| | ADP-fossil[1] | MJ | 4.94E+01 | 9.17E-01 | 3.70E-01 | 0 | 0 | 0 | 0 |
| | WDP[1] | $m^3$ | 1.93E+00 | 6.27E-04 | 6.00E-03 | 0 | 0 | 0 | 0 |

| **Indicator** | | **Unit** | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|---|---|
| | GWP-total | kg $CO_2$ -eq | 0 | 0 | 0 | 1.92E-02 | 1.43E-02 | 0.00E+00 | 1.56E-03 | -2.19E+00 |
| | GWP-fossil | kg $CO_2$ -eq | 0 | 0 | 0 | 1.90E-02 | 1.42E-02 | 0.00E+00 | 1.56E-03 | -2.24E+00 |
| | GWP-biogenic | kg $CO_2$ -eq | 0 | 0 | 0 | 1.49E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.75E-02 |
| | GWP-luluc | kg $CO_2$ -eq | 0 | 0 | 0 | 3.20E-05 | 1.17E-04 | 0.00E+00 | 1.56E-06 | 2.38E-04 |
| | ODP | kg CFC11 -eq | 0 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | AP | mol H+ -eq | 0 | 0 | 0 | 3.46E-05 | 1.42E-05 | 0.00E+00 | 4.98E-06 | -4.06E-03 |
| | EP-FreshWater | kg P -eq | 0 | 0 | 0 | 6.10E-08 | 4.24E-08 | 0.00E+00 | 1.19E-09 | -7.92E-07 |
| | EP-Marine | kg N -eq | 0 | 0 | 0 | 9.26E-06 | 4.53E-06 | 0.00E+00 | 1.24E-06 | -6.35E-04 |
| | EP-Terrestial | mol N -eq | 0 | 0 | 0 | 9.70E-05 | 5.41E-05 | 0.00E+00 | 1.36E-05 | -6.24E-03 |
| | POCP | kg NMVOC -eq | 0 | 0 | 0 | 2.45E-05 | 1.23E-05 | 0.00E+00 | 3.89E-06 | -3.15E-03 |
| | ADP-minerals&metals[1] | kg Sb-eq | 0 | 0 | 0 | 5.94E-09 | 1.12E-09 | 0.00E+00 | 1.07E-10 | -4.82E-06 |
| | ADP-fossil[1] | MJ | 0 | 0 | 0 | 3.54E-01 | 1.90E-01 | 0.00E+00 | 2.27E-02 | -1.97E+01 |
| | WDP[1] | $m^3$ | 0 | 0 | 0 | 2.88E-03 | 1.24E-04 | 0.00E+00 | -1.86E-05 | -4.37E-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

## Additional environmental impact indicators

| Indicator | | Unit | A1-A3 | A4 | A5 | B1 | B2 | B3 | B4 |
|---|---|---|---|---|---|---|---|---|---|
| | PM | Disease incidence | 2.27E-07 | 1.53E-09 | 4.46E-10 | 0 | 0 | 0 | 0 |
| | IRP[2] | kgBq U235 -eq | 9.29E-02 | 2.42E-04 | 8.16E-03 | 0 | 0 | 0 | 0 |
| | ETP-fw[1] | CTUe | 9.39E+00 | 6.80E-01 | 1.78E-01 | 0 | 0 | 0 | 0 |
| | HTP-c[1] | CTUh | 1.65E-09 | 0.00E+00 | 5.00E-12 | 0 | 0 | 0 | 0 |
| | HTP-nc[1] | CTUh | 1.39E-07 | 0.00E+00 | 2.96E-10 | 0 | 0 | 0 | 0 |
| | SQP[1] | dimensionless | 1.69E+01 | 3.09E-01 | 1.10E-01 | 0 | 0 | 0 | 0 |

| Indicator | | Unit | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|---|---|
| | PM | Disease incidence | 0 | 0 | 0 | 2.86E-10 | 1.60E-10 | 0.00E+00 | 5.40E-11 | -7.49E-08 |
| | IRP[2] | kgBq U235 -eq | 0 | 0 | 0 | 4.88E-03 | 3.30E-05 | 0.00E+00 | 3.71E-05 | 5.41E-02 |
| | ETP-fw[1] | CTUe | 0 | 0 | 0 | 1.36E-01 | 1.37E-01 | 0.00E+00 | 6.69E-03 | -1.32E-01 |
| | HTP-c[1] | CTUh | 0 | 0 | 0 | 5.00E-12 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.42E-10 |
| | HTP-nc[1] | CTUh | 0 | 0 | 0 | 1.54E-10 | 1.60E-10 | 0.00E+00 | 7.80E-11 | -3.04E-08 |
| | SQP[1] | dimensionless | 0 | 0 | 0 | 1.34E-01 | 6.51E-02 | 0.00E+00 | 1.68E-03 | -7.90E+00 |

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Potential Soil Quality Index (dimensionless)

"Reading example: 9.0 E-03 = 9.0*10-3 = 0.009"

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator
2. This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

## Resource use

| Indicator | | Unit | A1-A3 | A4 | A5 | B1 | B2 | B3 | B4 |
|---|---|---|---|---|---|---|---|---|---|
| | PERE | MJ | 1.44E+00 | 5.17E-02 | 1.55E+00 | 0 | 0 | 0 | 0 |
| | PERM | MJ | 1.87E+00 | 0.00E+00 | -1.39E+00 | 0 | 0 | 0 | 0 |
| | PERT | MJ | 3.31E+00 | 5.17E-02 | 1.55E-01 | 0 | 0 | 0 | 0 |
| | PENRE | MJ | 4.95E+01 | 9.20E-01 | 3.89E-01 | 0 | 0 | 0 | 0 |
| | PENRM | MJ | 2.47E-02 | 0.00E+00 | -1.86E-02 | 0 | 0 | 0 | 0 |
| | PENRT | MJ | 4.95E+01 | 9.20E-01 | 3.70E-01 | 0 | 0 | 0 | 0 |
| | SM | kg | 2.80E-01 | 0.00E+00 | 0.00E+00 | 0 | 0 | 0 | 0 |
| | RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0 | 0 | 0 | 0 |
| | NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0 | 0 | 0 | 0 |
| | FW | $m^3$ | 4.81E-02 | 5.92E-05 | 2.21E-04 | 0 | 0 | 0 | 0 |

| Indicator | | Unit | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|---|---|
| | PERE | MJ | 0 | 0 | 0 | 1.60E-01 | 1.06E-02 | 0.00E+00 | 1.65E-03 | 1.16E+00 |
| | PERM | MJ | 0 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | PERT | MJ | 0 | 0 | 0 | 1.60E-01 | 1.06E-02 | 0.00E+00 | 1.65E-03 | 1.16E+00 |
| | PENRE | MJ | 0 | 0 | 0 | 3.54E-01 | 1.90E-01 | 0.00E+00 | 2.27E-02 | -1.97E+01 |
| | PENRM | MJ | 0 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | PENRT | MJ | 0 | 0 | 0 | 3.54E-01 | 1.90E-01 | 0.00E+00 | 2.27E-02 | -1.97E+01 |
| | SM | kg | 0 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | RSF | MJ | 0 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | NRSF | MJ | 0 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | FW | $m^3$ | 0 | 0 | 0 | 7.90E-05 | 1.21E-05 | 0.00E+00 | 2.35E-07 | -9.94E-03 |

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non renewable primary energy resources used as raw materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary materials; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

"Reading example: 9.0 E-03 = 9.0*10-3 = 0.009"

## End of life - Waste

| Indicator | | Unit | A1-A3 | A4 | A5 | B1 | B2 | B3 | B4 |
|---|---|---|---|---|---|---|---|---|---|
| | HWD | kg | 4.49E-08 | 0.00E+00 | 9.30E-11 | 0 | 0 | 0 | 0 |
| | NHWD | kg | 2.48E-01 | 1.43E-04 | 1.55E-02 | 0 | 0 | 0 | 0 |
| | RWD | kg | 2.99E-04 | 1.65E-06 | 5.01E-05 | 0 | 0 | 0 | 0 |

| Indicator | | Unit | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|---|---|
| | HWD | kg | 0 | 0 | 0 | 1.06E-10 | 0.00E+00 | 0.00E+00 | 5.00E-12 | 5.07E-09 |
| | NHWD | kg | 0 | 0 | 0 | 2.86E-04 | 2.82E-05 | 0.00E+00 | 3.20E-02 | 2.32E-01 |
| | RWD | kg | 0 | 0 | 0 | 5.30E-05 | 2.30E-07 | 0.00E+00 | 2.59E-07 | -2.37E-05 |

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-A3 | A4 | A5 | B1 | B2 | B3 | B4 |
|---|---|---|---|---|---|---|---|---|---|
| | CRU | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0 | 0 | 0 | 0 |
| | MFR | kg | 1.24E-01 | 0.00E+00 | 7.06E-02 | 0 | 0 | 0 | 0 |
| | MER | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0 | 0 | 0 | 0 |
| | EEE | MJ | 3.87E-03 | 0.00E+00 | 4.40E-02 | 0 | 0 | 0 | 0 |
| | EET | MJ | 8.89E-03 | 0.00E+00 | 7.73E-02 | 0 | 0 | 0 | 0 |

| Indicator | | Unit | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|---|---|
| | CRU | kg | 0 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | MFR | kg | 0 | 0 | 0 | 0.00E+00 | 1.57E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | MER | kg | 0 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | EEE | MJ | 0 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | EET | MJ | 0 | 0 | 0 | 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 | 1.92E-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 |
|---|---|---|---|
| BG: Electricity grid mix (production mix), Sphera (GaBi) | Database | 735.00 | g CO2-eq/kWh |

### Dangerous substances

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

### Indoor environment

Not relevant for this product category.

## Additional Environmental Information

| Additional environmental impact indicators required in NPCR Part A for construction products | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Indicator** | **Unit** | A1-A3 | A4 | A5 | B1 | B2 | B3 | B4 |
| GWPIOBC | kg $CO_2$ -eq | 4.71E+00 | 6.94E-02 | 2.16E-02 | 0 | 0 | 0 | 0 |

| **Indicator** | **Unit** | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|---|
| GWPIOBC | kg $CO_2$ -eq | 0 | 0 | 0 | 1.91E-02 | 1.43E-02 | 0.00E+00 | 1.56E-03 | -2.24E+00 |

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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