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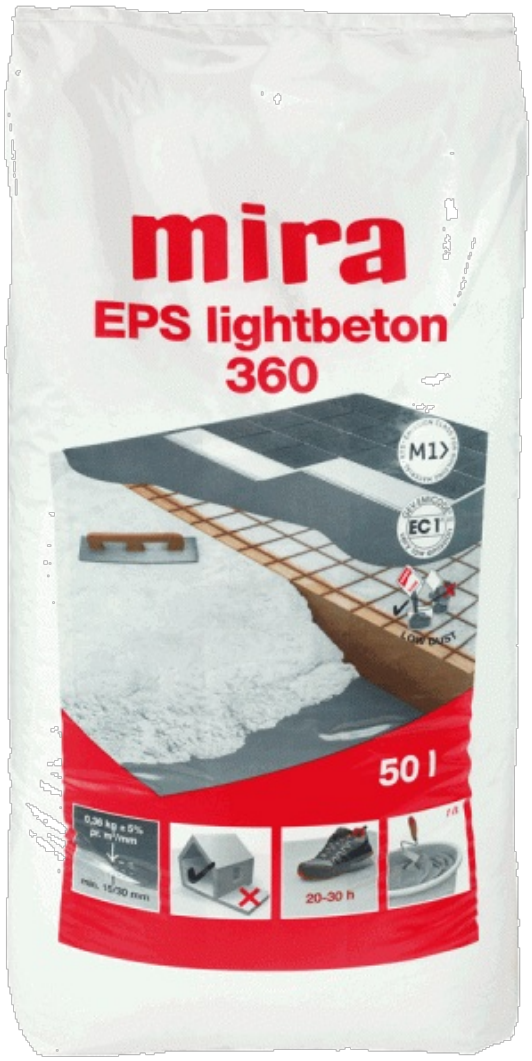
# Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

## EPS Lightbeton 360




mira byggeprodukter a/s

EPD-Global

**Owner of the declaration:**
Mira Byggeprodukter AS

**Product:**
EPS Lightbeton 360

**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-12725-12978

**Issue date:**
24.10.2025

**Valid to:**
24.10.2030

**EPD software:**
LCAno EPD generator ID: 987669

## General information

**Product**

EPS Lightbeton 360

**Owner of the declaration:**

Mira Byggeprodukter AS
Contact person: Thomas Blomdell
Phone: +45 46191946
e-mail: info@mira.eu.com

**Program operator:**

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

**Manufacturer:**

Mira Byggeprodukter AS
Egegårdsvej 2
4621 Gadstrup, Denmark

**Declaration number:**

NEPD-12725-12978

**Place of production:**

Mira - Production Site (Denmark)
Egegårdsvej, 2
4621 Gadstrup, Denmark

**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

**Management system:**

**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:**

39581914

**Declared unit:**

1 kg EPS Lightbeton 360

**Issue date:**

24.10.2025

**Declared unit with option:**

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

**Valid to:**

24.10.2030

**Year of study:**

2024

**Functional unit:**

Not declared

**Comparability:**

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

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

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-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. NEPDT189

Developer of EPD: Niklas Fröberg

Reviewer of company-specific input data and EPD: Thomas Blomdell

**Verification of EPD tool:**

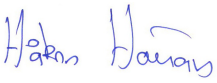
Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPD-Global's procedures and guidelines for verification and approval of EPD tools. NEPDT73

Third party verifier:

Linda Høibye, Life Cycle Assessment Consulting

(no signature required)

**Approved:**



Håkon Hauan, CEO EPD-Global

## Product

### Product description:

EPS Lightbeton 360 is a lightweight, fast-drying floor screed designed for creating strong, insulated subfloors in both dry and wet indoor environments. The product can be used for floor fill in applications with a high finished floor level or for building up concrete-like finished floors on wooden joist constructions, with surface coverings using Mira's levelling compounds

### Product specification

- Can be applied on wooden joists
- Ready for top covering after 20–30 hours
- Dust-reduced

| Materials | kg | % |
|---|---|---|
| Aggregate | 0,1374 | 13,73 |
| Cement | 0,7009 | 70,03 |
| Chemical | 0,0768 | 7,67 |
| Oil | 0,005397 | 0,5392 |
| Plastic - Polystyrene expandable (EPS) | 0,07963 | 7,96 |
| Plasticizer | 0,000701 | 0,07004 |
| Total | 1,00 | 100,00 |

| Packaging | kg | % |
|---|---|---|
| Packaging - Plastic | 0,01 | 24,47 |
| Packaging - Wood | 0,02 | 75,53 |
| Total incl. packaging | 1,02 | 100,00 |

### Technical data:

| Density after curing | 410–440 kg/m³ |
|---|---|
| Density in powder form | 350 kg/m³ |
| Working time | approx. 1 hour |
| Compressive strength without top covering (central) | 3.0 MPa |
| Compressive strength with top covering (central) | 5.8 MPa |
| Thermal conductivity (?) | 0.1322 W/(m·K) |
| Fire classification | A2-s1, d0 |
| Curing time at 18°C (For light foot traffic) | 20–30 hours |
| Curing time at 18°C (Before applying levelling compound) | 20–30 hours |
| Recommended working temperature | 10–20°C |
| Minimum layer thickness (Floating construction) | min. 30 mm |
| Minimum layer thickness (Fixed/anchored) | min. 15 mm |
| Consumption | 0.35 kg ± 5% of powder per m² per mm layer thickness |

### Market:

European market

### Reference service life, product

Not applicable

### Reference service life, building

## LCA: Calculation rules

### Declared unit:

1 kg EPS Lightbeton 360

### 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.

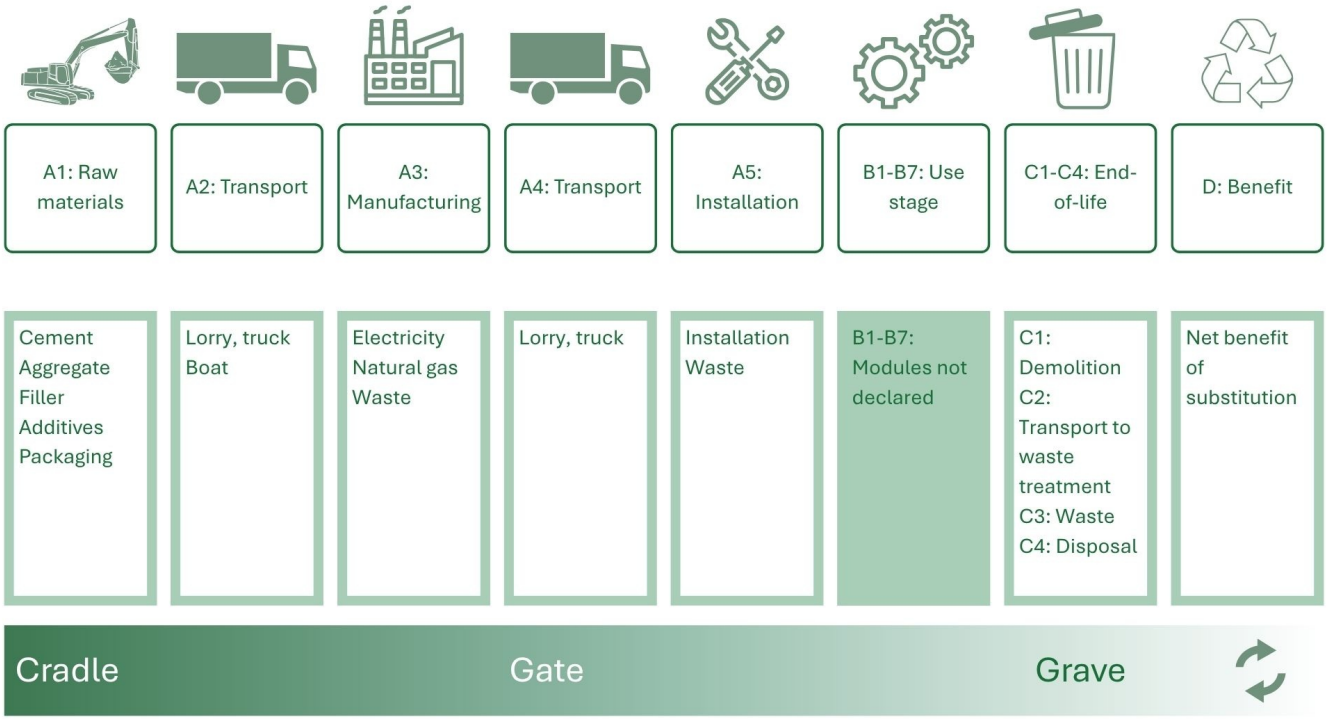
| Materials | Source | Data quality | Year |
|---|---|---|---|
| Aggregate | ecoinvent 3.10.1 | Database | 2023 |
| Cement | S-P-02234 | EPD | 2020 |
| Chemical | ecoinvent 3.10.1 | Database | 2023 |
| Oil | ecoinvent 3.10.1 | Database | 2023 |
| Packaging - Plastic | ecoinvent 3.10.1 | Database | 2023 |
| Packaging - Wood | ecoinvent 3.10.1 | Database | 2023 |
| Plastic - Polystyrene expandable (EPS) | ecoinvent 3.10.1 | Database | 2023 |
| Plasticizer | ecoinvent 3.10.1 | Database | 2023 |

## 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:**

This EPD covers the life cycle modules A1–A3 (raw material extraction, transport to factory, and production). Modules A4–A5 (transport to storage and further to market with subsequent consumption). B1-B7 (use phase) is not included. C1–C4 (end-of-life phase) and D (potential benefits from recycling) are included. The system boundaries are defined according to EN 15804+A2.




**Additional technical information:**

## LCA: Scenarios and additional technical information

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

A4: European market, 90km average. A5: The installation of the product into the building requires water and energy for blending the raw materials. Mixing electricity consumption is estimated as 0,216 MJ/kg. This is equivalent to the use of a 1200-Watt handheld mixer for 3 minutes. Apart from the waste of sales and transport packaging for the final Mira product (paper, plastics), there is a 2% loss of the product generated during installation. All end-of-life products are sent to the closest disposal facilities, estimating a transportation distance equal to 50 km via road transport by a Euro 6 lorry of 16-32 metric ton. Module (C3) is considered zero, as no further waste processing for incineration, reuse, recovery or recycling takes place in this analysis. Module (C4) is the disposal of end-of-life products including physical pre-treatment. In this case, the landfill is considered the final disposal method

| 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 (km) | 38,8 % | 90,00 | 0,044 | l/tkm | 3,96 |

| Assembly (A5) | Unit | Value | | | |
|---|---|---|---|---|---|
| Material loss during installation (kg) | kg | 0,02 | | | |
| Waste, packaging, wood (kg) | kg | 0,01667 | | | |
| Water, tap water (kg) | kg | 0,486 | | | |
| Waste, packaging, plastic, mixture, to average treatment (kg) | kg | 0,0054 | | | |
| Electricity, Denmark (kWh) | kWh | 0,06 | | | |

| 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) - RER | 38,8 % | 50,00 | 0,044 | l/tkm | 2,20 |

| Disposal (C4) | Unit | Value | | | |
|---|---|---|---|---|---|
| Treatment of waste concrete-based, inert material landfill (kg) | kg | 1,00 | | | |

| Benefits and loads beyond the system boundaries (D) | Unit | Value | | | |
|---|---|---|---|---|---|
| Substitution of thermal energy, district heating (MJ) | MJ | 0,000002551 | | | |
| Substitution of electricity (MJ) | MJ | 0,000001259 | | | |
| Substitution, Packaging, Pallet, EUR wooden pallet, single use (kg) | kg | 0,01077 | | | |

## 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 | C1 | C2 | C3 | C4 | D |
| | GWP-total | kg $CO_2$ -eq | 1.24E+00 | 1.75E-02 | 8.80E-02 | 0 | 9.72E-03 | 1.03E-03 | 5.90E-03 | 1.31E-02 |
| | GWP-fossil | kg $CO_2$ -eq | 1.25E+00 | 1.75E-02 | 4.30E-02 | 0 | 9.71E-03 | 0.00E+00 | 5.88E-03 | -2.68E-03 |
| | GWP-biogenic | kg $CO_2$ -eq | -9.57E-03 | 1.35E-05 | 4.49E-02 | 0 | 7.49E-06 | 1.03E-03 | 1.52E-05 | 1.58E-02 |
| | GWP-luluc | kg $CO_2$ -eq | 3.98E-04 | 6.27E-06 | 4.85E-05 | 0 | 3.48E-06 | 0.00E+00 | 1.07E-06 | -1.35E-05 |
| | ODP | kg CFC11 -eq | 7.00E-09 | 3.68E-10 | 3.68E-10 | 0 | 2.05E-10 | 0.00E+00 | 2.19E-10 | -1.14E-09 |
| | AP | mol H+ -eq | 8.15E-03 | 3.64E-05 | 2.25E-04 | 0 | 2.02E-05 | 0.00E+00 | 3.66E-05 | -1.48E-05 |
| | EP-FreshWater | kg P -eq | 2.42E-04 | 1.18E-06 | 1.19E-05 | 0 | 6.54E-07 | 0.00E+00 | 2.65E-07 | -9.21E-07 |
| | EP-Marine | kg N -eq | 1.61E-03 | 8.73E-06 | 4.61E-05 | 0 | 4.85E-06 | 0.00E+00 | 1.57E-05 | -4.49E-06 |
| | EP-Terrestial | mol N -eq | 1.76E-02 | 9.42E-05 | 4.97E-04 | 0 | 5.23E-05 | 0.00E+00 | 1.71E-04 | -5.04E-05 |
| | POCP | kg NMVOC -eq | 6.40E-03 | 6.05E-05 | 1.67E-04 | 0 | 3.36E-05 | 0.00E+00 | 6.92E-05 | -2.19E-05 |
| | ADP-minerals&metals[1] | kg Sb-eq | 2.63E-06 | 5.82E-08 | 3.50E-07 | 0 | 3.23E-08 | 0.00E+00 | 7.50E-09 | -1.53E-08 |
| | ADP-fossil[1] | MJ | 1.63E+01 | 2.46E-01 | 4.96E-01 | 0 | 1.37E-01 | 0.00E+00 | 1.47E-01 | -4.68E-02 |
| | WDP[1] | $m^3$ | 3.19E-01 | 1.22E-03 | 2.40E-02 | 0 | 6.79E-04 | 0.00E+00 | 5.02E-04 | -1.75E-03 |

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

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.

## Additional environmental impact indicators

| Indicator | | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|---|---|
| | PM | Disease incidence | 1.63E-08 | 1.29E-09 | 8.06E-10 | 0 | 7.16E-10 | 0.00E+00 | 9.27E-10 | -2.69E-10 |
| | IRP[2] | kgBq U235 -eq | 5.20E-02 | 3.17E-04 | 4.43E-03 | 0 | 1.76E-04 | 0.00E+00 | 1.25E-04 | -2.81E-04 |
| | ETP-fw[1] | CTUe | 1.77E+01 | 3.27E-02 | 4.24E-01 | 0 | 1.82E-02 | 0.00E+00 | 7.84E-03 | -1.25E-02 |
| | HTP-c[1] | CTUh | 2.61E-09 | 0.00E+00 | 5.80E-11 | 0 | 0.00E+00 | 0.00E+00 | 1.00E-12 | -1.70E-11 |
| | HTP-nc[1] | CTUh | 1.07E-08 | 1.84E-10 | 5.66E-10 | 0 | 1.02E-10 | 0.00E+00 | 2.20E-11 | -3.10E-11 |
| | SQP[1] | dimensionless | 4.36E+00 | 1.49E-01 | 3.63E-01 | 0 | 8.25E-02 | 0.00E+00 | 2.97E-01 | -1.41E+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-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| | PERE | MJ | 6.71E-01 | 4.30E-03 | 2.45E-01 | 0 | 2.39E-03 | 0.00E+00 | 3.02E-03 | -1.05E-01 |
| | PERM | MJ | 2.56E-01 | 0.00E+00 | -2.33E-01 | 0 | 0.00E+00 | -1.80E-02 | 0.00E+00 | -1.54E-01 |
| | PERT | MJ | 9.27E-01 | 4.30E-03 | 1.15E-02 | 0 | 2.39E-03 | -1.80E-02 | 3.02E-03 | -2.59E-01 |
| | PENRE | MJ | 1.24E+01 | 2.46E-01 | 4.18E-01 | 0 | 1.37E-01 | 0.00E+00 | 1.47E-01 | -3.67E-02 |
| | PENRM | MJ | 3.66E+00 | 0.00E+00 | -1.72E-01 | 0 | 0.00E+00 | -2.15E-02 | 0.00E+00 | -1.02E-02 |
| | PENRT | MJ | 1.61E+01 | 2.46E-01 | 2.46E-01 | 0 | 1.37E-01 | -2.15E-02 | 1.47E-01 | -4.68E-02 |
| | SM | kg | 1.21E-05 | 0.00E+00 | 2.43E-07 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | RSF | MJ | 8.23E-03 | 1.44E-06 | 1.65E-04 | 0 | 8.02E-07 | 0.00E+00 | 8.73E-07 | -5.19E-03 |
| | NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -7.71E-08 |
| | FW | $m^3$ | 1.05E-02 | 3.35E-05 | 1.26E-03 | 0 | 1.86E-05 | 0.00E+00 | 1.67E-04 | -4.05E-05 |

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

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

## End of life - Waste

| Indicator | | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|---|---|
| | HWD | kg | 9.36E-03 | 3.57E-04 | 1.26E-03 | 0 | 1.99E-04 | 0.00E+00 | 1.10E-04 | -2.01E-04 |
| | NHWD | kg | 3.42E-01 | 7.54E-03 | 5.87E-02 | 0 | 4.19E-03 | 0.00E+00 | 2.65E-03 | -5.13E-03 |
| | RWD | kg | 1.75E-06 | 7.88E-05 | 3.26E-06 | 0 | 4.38E-05 | 0.00E+00 | 0.00E+00 | -7.30E-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"
*INA Indicator Not Assessed

## End of life - Output flow

| Indicator | | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|---|---|
| | CRU | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | MFR | kg | 9.03E-05 | 0.00E+00 | 1.25E-02 | 0 | 0.00E+00 | 0.00E+00 | 5.54E-07 | 0.00E+00 |
| | MER | kg | 5.80E-11 | 0.00E+00 | 1.58E-10 | 0 | 0.00E+00 | 0.00E+00 | 2.18E-09 | 0.00E+00 |
| | EEE | MJ | 8.72E-07 | 0.00E+00 | 1.60E-06 | 0 | 0.00E+00 | 0.00E+00 | 1.64E-05 | 0.00E+00 |
| | EET | MJ | 1.62E-06 | 0.00E+00 | 2.74E-06 | 0 | 0.00E+00 | 0.00E+00 | 6.77E-06 | 0.00E+00 |

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

## Biogenic Carbon Content

| Indicator | Unit | At the factory gate |
|---|---|---|
| Biogenic carbon content in product | kg C | 2.80E-04 |
| Biogenic carbon content in accompanying packaging | kg C | 7.42E-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, wind, onshore - Garantee of Origin (kWh) | ecoinvent 3.10.1 | 37,63 | g CO2-eq/kWh |

### Dangerous substances

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

### Indoor environment

The product is certified GEV-Emicode EC1 Plus

## Additional Environmental Information

| Additional environmental impact indicators required in NPCR Part A for construction products | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Indicator** | **Unit** | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| GWPIOBC | kg $CO_2$ -eq | 1.25E+00 | 1.75E-02 | 4.32E-02 | 0 | 9.72E-03 | 0.00E+00 | 5.89E-03 | -2.70E-03 |

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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Ruttenborg, M. and Iversen, O.M.K., (2023) EPD generator for NPCR009:2021, Part B for Technical - Chemical products, Background information for EPD generator application and LCA data, LCA.no report number: 05.23.
NPCR Part A: Construction products and services. Ver. 2.0, 24.03.2021 EPD Norway.
NPCR 009 Part B for Technical - Chemical products for building and construction industry, Ver. 3.0, 06.10.2021, EPD Norway.

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