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# ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025 and EN 15804+A2

## STEICO SE
## STEICOtimberfloc

**Owner of the declaration**
STEICO SE
Otto-Lilienthal-Ring 30
85622 Feldkirchen
Germany


**Product**
STEICOtimberfloc

**Declared product / Declared unit**
1 kg

**This declaration is based on Product Category Rules**
EN 15804:2012 + A2:2019,
NPCR Part A:2021 ,
NPCR 012 Part B for Thermal Insulation Products ,
EN 16783:2024


**Program operator:**
EPD Global
Majorstuen P.O. Box 5250
N-0303 Oslo
Norway

**Declaration number**
NEPD-12290-12290-2

**Registration number**
NEPD-12290-12290-2

**Issue date**
27.09.2026

**Valid to**
26.09.2031

**EPD Software**
Emidat Platform v1.0.0

## General Information

**Product**
STEICOtimberfloc

**Program Operator**
EPD Global
Majorstuen P.O. Box 5250
N-0303 Oslo
Norway
Phone: +47 23 08 80 00
Email: post@epd-norge.no

**Declaration Number**
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**Statements**
The owner of the declaration shall be liable for the underlying information and evidence. The Norwegian EPD Foundation shall not be liable with respect to manufacturer, life cycle assessment data and evidences.

**Declared unit**
1 kg

**General information on verification of EPD from EPD tools**
Independent verification of data, other environmental information and the declaration according to ISO 14025:2011-10, § 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**
Independent third-party verification based on the 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: Charlotte Merlin, FORCE Technology

**Owner of the declaration**
STEICO SE

**Contact person**
sustainability@steico.com

**Phone**
0899915510

**Email**
sustainability@steico.com

**Manufacturer**
STEICO SE
Otto-Lilienthal-Ring 30
85622 Feldkirchen, Germany

**Place of production**
Czarnków, Poland

**Management system**
-

**Issue date**
27.09.2026

**Valid to**
26.09.2031

**Year of study**
2025

**Comparability**
EPDs of construction products may not be comparable if they do not comply with EN 15804 and are not seen in a building context. EPD data may not be comparable if the datasets used are not developed in accordance with EN 15804 and if the background systems are not based on the same database (including primary and secondary data).

**Development and verification of EPD**
The declaration was created using the Emidat EPD tool v1.0, developed by Emidat GmbH which is third-party verified and approved as a Reference Flow Tool with internal review under administration and surveillance by EPD Global under provisions stated in general information on verification of EPD from EPD tools.

Developer of EPD: Leonhard Garhammer
Reviewer of company-specific input data and EPD: Dr. Michael Makas

**Approved**

Håkon Hauan, The Norwegian EPD Foundation

# Product

## Product description

STEICOtimberfloc is a loose-fill insulation material for thermal, acoustic and fire protection applications in buildings. The product consists of a blend of wood fibres and cellulose fibres and is designed for installation by blowing into enclosed cavities. It is suitable for use in wall, roof and floor constructions and enables cavity filling without joints or offcuts.

## Application description

STEICOtimberfloc is used as blown-in insulation in enclosed building elements such as timber frame walls, pitched roofs, ceilings and floor constructions. The material is pneumatically installed into cavities, where it forms a continuous insulation layer adapted to the geometry of the construction. It is intended for use in new buildings and refurbishment projects requiring thermal and acoustic insulation of cavity structures.

## Production process

## Upstream production processes

## Product specification

| Name of ingredient | Share of total weight |
|---|---|
| Chemicals | 2 - 10 % |
| Paper and cardboard | 10 - 30 % |
| Polymers | 0 - 2 % |
| Wood | 70 - 90 % |

## Packaging

| Name | Quantity, kg |
|---|---|
| Paper | 3.14e-04 |
| Plastic film | 0.01 |
| Wooden pallets | 0.05 |

## Technical data

| | Unit | Value |
|---|---|---|
| Thermal conductivity | W / (mK) | 0.039 |
| Gross density | kg / m³ | 45 |

The product is produced according to the product standard EN 15101.

## Market

Europe

**Recipients**
B2B

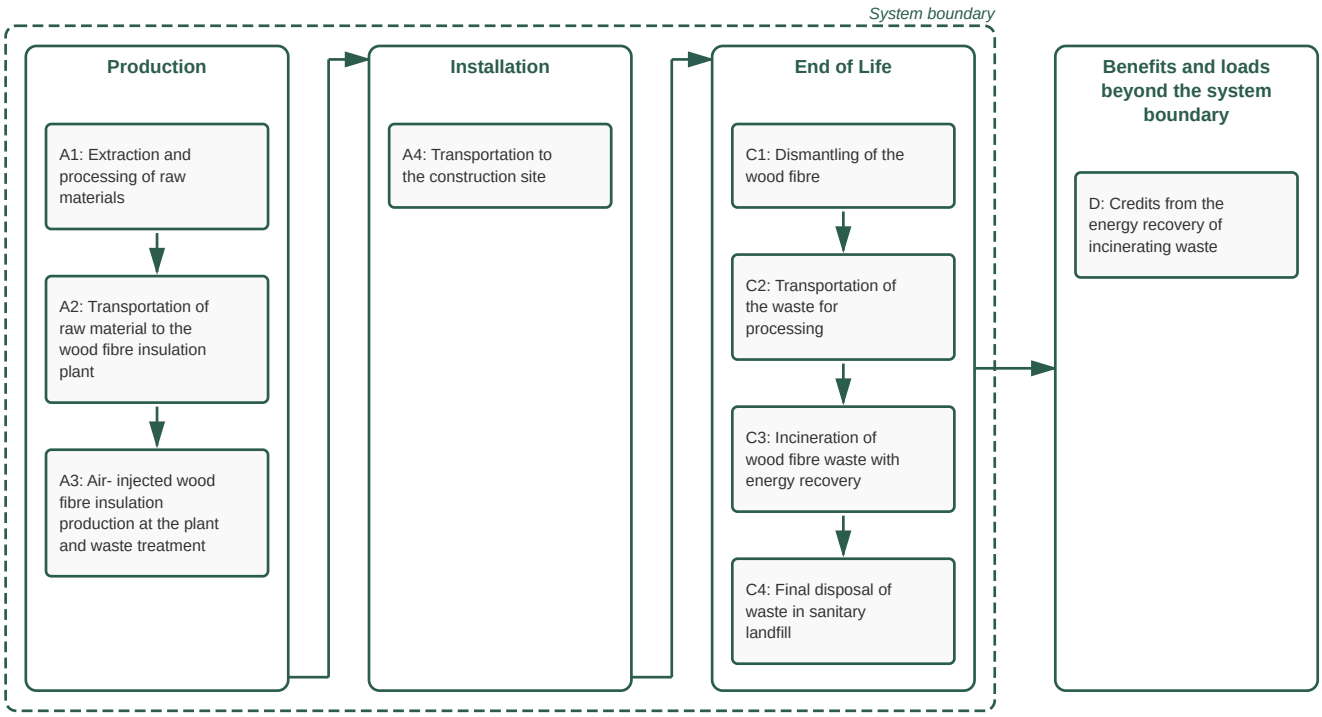
## LCA: Calculation rules

### Declared unit
1 kg

### Product lifetime
50 years
This value represents a conventional product lifespan, not a guaranteed performance duration, and assumes normal exposure conditions, adequate design, and routine maintenance.

### Reference service life
Not declared

### System boundary




### Data quality
The foreground data are based on extensive and detailed data collection at the production site of the manufacturer, covering key processes such as raw material sourcing, formulation, and manufacturing. These foreground data are fully linked with corresponding datasets from the background database (ecoinvent 3.10) or with EN15804+A2-compliant EPDs, ensuring consistency, reliability, and maintaining alignment with the latest industry standards.

The overall data representativeness is rated as good with an overall score of 4.00/5, in accordance with EN 15804+A2 Annex E guidance on data quality assessment, considering geographical, technical, and temporal representativeness.

The following table discloses all processes or activities assessed with very poor or poor data representativeness according to EN 15804+A2, as well as those assessed as fair that contribute more than 30 % to any core impact indicator in A1–A3:

| Element | Minimal Representativeness | Source | Year |
|---|---|---|---|
| For wood | Poor | ecoinvent 3.10 | 2023 |
| Manufacturing fuels | Poor | ecoinvent 3.10 | 2023 |
| Packaging | Poor | ecoinvent 3.10 | 2023 |
| Paper and cardboard | Poor | ecoinvent 3.10 | 2023 |
| Chemicals | Fair | ecoinvent 3.10 | 2023 |
| Packaging | Fair | ecoinvent 3.10 | 2023 |

### System boundaries (X=included, MND=module not declared)

| | Production | | | Installation | | Use stage | | | | | | | End-of-Life | | | | Next product system |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Raw material supply | Transport | Manufacturing | Transport | Installation Process | Use | Maintenance | Repair | Replacement | Refurbishment | Operational Energy Use | Operational Water Use | Demolition | Transport | Waste Processing | Disposal | Benefits and loads beyond the system boundary |
| Module | A1 | A2 | A3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D |
| Modules declared | x | x | x | x | MND | MND | MND | MND | MND | MND | MND | MND | x | x | x | x | x |
| Geography | | | PL | Europe | MND | MND | MND | MND | MND | MND | MND | MND | Europe | Europe | Europe | Europe | Europe |

For the geographies modeled in A1 and A2, refer to *Product specification*.

Type of EPD: Cradle to gate with options, modules A4, C1-C4 + D

**Stage of Material Production and Construction**

Module A1: Extraction and processing of raw materials

Module A2: Transportation of raw material to the wood fibre insulation plant

Module A3: Air-injected wood fibre insulation production at the plant and waste treatment

Module A4: Transportation to the construction site

Module A5: Includes processes associated with installation of the air-injected wood fibre

**Disposal Stage**

Module C1: Dismantling of the wood fibre

Module C2: Transportation of the waste for processing

Module C3: Incineration of wood fibre waste with energy recovery

Module C4: Final disposal of waste in sanitary landfill

**Credits and burdens outside the system boundaries**

Module D: Credits from the energy recovery of incinerating waste

### Cut-off criteria

All inputs and outputs related to the declared modules of Air-injected wood fibre, including raw materials, packaging, transportation, energy usage and ancillary materials, were comprehensively considered in line with EN 15804+A2 and if applicable the product-specific PCR. Furthermore, all known hazardous substances (within the REACH list and the Norwegian Priority List), regulated materials, and significant emissions were declared and are not excluded under the cut-off rules.

The following processes are considered below the EN 15804+A2 cut-off threshold and were excluded:

- Impacts related to the manufacturer's infrastructure and assets
- Manufacturing of means of production, buildings or other capital goods
- Transportation of personnel to the plant
- Transportation of personnel within the plant
- Research and development activities
- Long-term emissions

### Allocation

Foreground inventory data (energy and fuels, ancillary materials, emissions and waste) was collected at the production process level. Mass-based allocation was applied to allocate the total output of the production process in 2025 to the reference product.

### Key assumptions and estimates

Production process flows are allocated to the reference product, as described under allocation. The mass-based allocation assumes a uniform distribution of production impacts across co-products. Foreground inventory data is checked for consistency of production process, to ensure the validity of the allocated results.

## LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD. Mass and energy flows are reported per 1 kg of product.

| Transport to the building site (A4) | Value | Unit |
|---|---|---|
| Location of the production site | Poland | |
| Location of the installation site | Europe | |
| Transported mass: Product and packaging | 1.06 | kg |
| Transport modality: Truck | transport, freight, lorry >32 metric ton, EURO6 | - |
| Distance | 300.00 | km |
| Litres of fuel | 36.48 | l / 100km |
| Energy demand | 1.58 | MJ / t*km |
| Energy demand (km) | 1.68e-03 | MJ / km |
| Capacity utilization | 53.30 | % |

Transport of the product and its packaging from the production site to the installation site. Transport distances are based on external sources such as reported market averages, standards or PCRs. Vehicle type, fuel consumption and capacity utilization assumptions stem from the underlying background transport datasets and are stated below.

| End-of-life scenario (C1-C4) | Value | Unit |
|---|---|---|
| Diesel for collecting back | 0.06 | MJ |
| Collection process specified by type | | |
| Collected individually | 0 | kg |
| Collected with mixed construction and demolition waste | 1.00 | kg |
| Recovery system specified by type | | |
| Destined for reuse | 0 | kg |
| Destined for recycling | 0 | kg |
| Destined for energy recovery | 1.00 | kg |
| Disposal specified by type | | |
| Product or material destined for final disposal | 0 | kg |
| Transport | | |
| Distance to incineration | 50.00 | km |
| Transport modality: Truck | transport, freight, lorry >32 metric ton, EURO6 | - |
| Energy demand | 1.58 | MJ / t*km |
| Energy demand (km) | 1.58e-03 | MJ / km |
| Capacity utilization | 53.30 | % |

Module C2 includes the impact of transportation of material after deconstruction, during the End-of-Life stage.

| Reuse, recovery and/or recycling potentials (D) | Value | Unit |
|---|---|---|
| Amount of secondary material that the system takes in | 0.27 | kg |
| Installation (packaging): Material eligible for recycling/reuse credits | 0 | kg |
| End-of-life (product): Material eligible for recycling/reuse credits | 0 | kg |
| End-of-life (product): Material eligible for incineration credits | 0.80 | kg |
| End-of-life (product): Exported energy eligible for credits | 4.19 | MJ |
| Substitution of electricity production, grid mix | 1.39 | MJ |
| Substitution of heat production from natural gas | 2.80 | MJ |

Calculation of loads and benefits per EN 15804+A2. Exported energy is credited only where it originates from the incineration of primary material; landfilled fractions receive no exported-energy credit and therefore no avoided primary energy consumption. Recycling or reuse benefits are credited when primary material from the product is recovered at end-of-life and replaces virgin material that would otherwise have been produced.

# LCA: Results

## Core environmental impact indicators

| Indicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|
| GWP-total | kg $CO_2$-eq. | -1.14e+00 | 3.30e-02 | 6.01e-03 | 5.18e-03 | 1.53e+00 | 0.00e+00 | -3.96e-01 |
| GWP-fossil | kg $CO_2$-eq. | 3.15e-01 | 3.30e-02 | 6.01e-03 | 5.18e-03 | 1.55e-02 | 0.00e+00 | -3.78e-01 |
| GWP-biogenic | kg $CO_2$-eq. | -1.46e+00 | 1.65e-05 | 6.00e-07 | 2.60e-06 | 1.52e+00 | 0.00e+00 | -1.80e-02 |
| GWP-luluc | kg $CO_2$-eq. | 3.47e-03 | 1.17e-05 | 5.22e-07 | 1.84e-06 | 3.81e-06 | 0.00e+00 | -3.50e-04 |
| ODP | kg CFC-11-Eq | 8.15e-09 | 6.87e-10 | 9.20e-11 | 1.08e-10 | 1.74e-10 | 0.00e+00 | -1.10e-08 |
| AP | mol H+-Eq | 2.74e-03 | 7.79e-05 | 5.42e-05 | 1.22e-05 | 1.61e-04 | 0.00e+00 | -4.82e-04 |
| EP-freshwater | kg P-Eq | 1.19e-04 | 2.32e-06 | 1.75e-07 | 3.64e-07 | 6.73e-06 | 0.00e+00 | -2.25e-04 |
| EP-marine | kg N-Eq | 6.89e-04 | 2.04e-05 | 2.52e-05 | 3.21e-06 | 8.56e-05 | 0.00e+00 | -1.67e-04 |
| EP-terrestrial | mol N-Eq | 6.15e-03 | 2.21e-04 | 2.75e-04 | 3.47e-05 | 8.22e-04 | 0.00e+00 | -1.34e-03 |
| POCP | kg NMVOC-Eq | 2.59e-03 | 1.35e-04 | 8.21e-05 | 2.12e-05 | 2.07e-04 | 0.00e+00 | -6.29e-04 |
| ADPE | kg Sb-Eq | 4.68e-05 | 9.43e-08 | 2.15e-09 | 1.48e-08 | 3.18e-08 | 0.00e+00 | -3.87e-07 |
| ADPF | MJ, net calorific value | 5.46e+00 | 4.95e-01 | 7.86e-02 | 7.77e-02 | 1.38e-01 | 0.00e+00 | -5.99e+00 |
| WDP | $m^3$ world Eq deprived | 1.68e-01 | 2.49e-03 | 1.92e-04 | 3.90e-04 | 3.26e-02 | 0.00e+00 | -3.76e-02 |

**GWP-total**: Global Warming Potential - total , **GWP-fossil**: Global warming potential - fossil , **GWP-biogenic**: Global Warming Potential - biogenic , **GWP-luluc**: Global Warming Potential - luluc , **ODP**: Depletion potential of the stratospheric ozone layer , **AP**: Acidification potential, Accumulated Exceedance , **EP-freshwater**: Eutrophication potential - freshwater , **EP-marine**: Eutrophication potential - marine , **EP-terrestrial**: Eutrophication potential - terrestrial , **POCP**: Photochemical Ozone Creation Potential , **ADPE**: Abiotic depletion potential - non-fossil resources , **ADPF**: Abiotic depletion potential - fossil resources , **WDP**: Water (user) deprivation potential

## Additional indicators

| Indicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|
| PM | disease incidence | 7.81e-08 | 3.21e-09 | 1.54e-09 | 5.04e-10 | 1.81e-09 | 0.00e+00 | -2.57e-09 |
| IRP | kBq U235-Eq | 2.12e-02 | 6.02e-04 | 3.52e-05 | 9.44e-05 | 1.59e-04 | 0.00e+00 | -4.08e-02 |
| ETP-fw | CTUe | 1.26e+01 | 1.17e-01 | 1.11e-02 | 1.84e-02 | 1.82e-01 | 0.00e+00 | -7.39e-01 |
| HTP-c | CTUh | 1.61e-08 | 2.11e-10 | 2.35e-11 | 3.31e-11 | 2.82e-10 | 0.00e+00 | -6.14e-10 |
| HTP-nc | CTUh | 4.67e-09 | 3.27e-10 | 1.07e-11 | 5.13e-11 | 1.96e-09 | 0.00e+00 | -1.43e-09 |
| SQP | dimensionless | 4.81e+01 | 4.98e-01 | 5.51e-03 | 7.82e-02 | 3.86e-02 | 0.00e+00 | -4.71e-01 |

**PM**: Potential incidence of disease due to PM emissions , **IRP**: Potential Human exposure efficiency relative to U235 , **ETP-fw**: Potential Comparative Toxic Unit for ecosystems , **HTP-c**: Potential Comparative Toxic Unit for humans - cancer effects , **HTP-nc**: Potential Comparative Toxic Unit for humans - non-cancer effects , **SQP**: Potential Soil quality index . **IRP**: 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. **ETP-fw, HTP-c, HTP-nc, SQP**: The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experienced with these indicators.

## Use of resources

| Indicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|
| PERE | MJ | 1.27e+01 | 7.86e-03 | 4.81e-04 | 1.23e-03 | 3.41e-03 | 0.00e+00 | -6.40e-01 |
| PERM | MJ | 9.70e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | -9.70e+00 | 0.00e+00 | 0.00e+00 |

## Use of resources

| Indicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|
| PERT | MJ | 2.24e+01 | 7.86e-03 | 4.81e-04 | 1.23e-03 | -9.69e+00 | 0.00e+00 | -6.40e-01 |
| PENRE | MJ | 4.64e+00 | 4.95e-01 | 7.86e-02 | 7.77e-02 | 1.38e-01 | 0.00e+00 | -5.99e+00 |
| PENRM | MJ | 4.81e-01 | 0.00e+00 | 0.00e+00 | 0.00e+00 | -3.77e-01 | 0.00e+00 | 0.00e+00 |
| PENRT | MJ | 5.12e+00 | 4.95e-01 | 7.86e-02 | 7.77e-02 | -2.39e-01 | 0.00e+00 | -5.99e+00 |
| SM | kg | 2.72e-01 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 |
| RSF | MJ | 1.61e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 |
| NRSF | MJ | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 |
| FW | $m^3$ | 4.32e-03 | 7.20e-05 | 5.11e-06 | 1.13e-05 | 2.00e-04 | 0.00e+00 | -1.25e-03 |

**PERE**: Primary energy resources - renewable: use as energy carrier , **PERM**: Primary energy resources - renewable: used as raw materials , **PERT**: Primary energy resources - renewable: total , **PENRE**: Primary energy resources - non-renewable: use as energy carrier , **PENRM**: Primary energy resources - non-renewable: used as raw materials , **PENRT**: Primary energy resources - non-renewable: total , **SM**: Use of secondary material , **RSF**: Renewable secondary fuels , **NRSF**: Non-renewable secondary fuels , **FW**: Net use of fresh water

## Waste flows

| Indicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|
| HWD | kg | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 |
| NHWD | kg | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 1.00e+00 | 0.00e+00 | 0.00e+00 |
| RWD | kg | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 |

**HWD**: Hazardous waste disposed , **NHWD**: Non hazardous waste disposed , **RWD**: Radioactive waste disposed

## Output flows

| Indicator | Unit | A1-A3 | A4 | 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 |
| MFR | kg | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 |
| MER | kg | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 |
| EEE | MJ | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 1.74e+00 | 0.00e+00 | 0.00e+00 |
| EET | MJ | 0.00e+00 | 0.00e+00 | 0.00e+00 | 0.00e+00 | 3.50e+00 | 0.00e+00 | 0.00e+00 |

**CRU**: Components for re-use , **MFR**: Materials for recycling , **MER**: Materials for energy recovery , **EEE**: Exported electrical energy , **EET**: Exported thermal energy

| Name | Value | Unit |
|---|---|---|
| Biogenic carbon content in product | 4.14e-01 | kg C |
| Biogenic carbon content in accompanying packaging | 5.07e-04 | kg C |

## Additional requirements

### Greenhouse gas emissions from the use of electricity in the manufacturing phase

Electricity consumption in the manufacturing phase is composed from the source below.

| Approach | Electricity | Quantity [kWh] | Emission Factor [kg $CO_2$e/kWh] |
|---|---|---|---|
| market- and location-based | ecoinvent: electricity production, wind, >3MW turbine, onshore (PL) | 0.34 | 0.03 |

Electricity consumption in upstream production processes:

| Electricity | Emission Factor [kg $CO_2$e/kWh] |
|---|---|
| ecoinvent: electricity, medium voltage, residual mix (PL) | 1.11 |

### Dangerous substances

The product contains dangerous substances, more than 0.1% by weight.

| CAS no. | Share of total mass |
|---|---|
| 10043-35-3 | 0.67 % |

## Additional environmental information

### Secondary content

The product contains 20.04 % secondary material. Secondary material includes recycled, recovered and by-product content.

### Additional environmental impact indicators required in NPCR Part A for construction products

| Indicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|
| GWP-IOBC | kg $CO_2$-eq. | 3.21e-01 | 3.30e-02 | 6.01e-03 | 5.18e-03 | 1.56e-02 | 0.00e+00 | -3.79e-01 |

**GWP-IOBC**: Global Warming Potential - Instantaneous oxidation of biogenic carbon

## Bibliography


| | |
|---|---|
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| EN 15804:2012+A2:2019 | Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products |
| EN 15942:2022-04 | Sustainability of construction works - Environmental product declarations - Communication format business-to-business |
| ISO 14025:2011-10 | Environmental labels and declarations - Type III environmental declarations - Principles and procedures |
| ISO 14040:2021-02 | Environmental management - Life cycle assessment - Principles and framework |
| ISO 14044:2021-02 | Environmental management - Life cycle assessment - Requirements and guidelines |
| EF 3.1 | Environmental Footprint (EF) Life Cycle Impact Assessment method - Characterisation Factors version 3.1, European Commission, Joint Research Centre (JRC) |
| ecoinvent 3.10 | ecoinvent, Zurich, Switzerland, database version 3.10 |
| NPCR Part A:2021 | Construction products and services, Version 2.0. Issue date: 24.03.2021; validity extended to 31.12.2026. |
| NPCR 012:2022 | Product category rules, Part B: Thermal insulation products, Version 2.0. Issue date: 31.03.2022; validity extended to 31.12.2026. |
| EN 16783:2024 | Thermal insulation products – Environmental product declarations (EPD) – Product category rules (PCR) complementary to EN 15804 for factory-made and in-situ formed products. |



| | | | |
|---|---|---|---|
| epd-global Powered by EPD-Norway | **Program Operator** | Phone | +47 23 08 80 00 |
| | EPD Global | | |
| | P.O. Box 5250 Majorstuen, N-0303 Oslo | Email | post@epd-norge.no |
| | Norway | Web | www.epd-global.no |
| epd-global Powered by EPD-Norway | **Publisher** | Phone | +47 23 08 80 00 |
| | EPD Global | | |
| | P.O. Box 5250 Majorstuen, N-0303 Oslo | Email | post@epd-norge.no |
| | Norway | Web | www.epd-global.no |
| STEICO Das Naturbausystem | **Owner of the declaration** | Phone | 0899915510 |
| | STEICO SE | | |
| | Otto-Lilienthal-Ring 30, 85622 Feldkirchen | Email | sustainability@steico.com |
| | Germany | Web | www.steico.com |
| STEICO Das Naturbausystem | **Author of the life cycle assessment** | Phone | 0899915510 |
| | STEICO SE | | |
| | Otto-Lilienthal-Ring 30, 85622 Feldkirchen | Email | sustainability@steico.com |
| | Germany | Web | www.steico.com |
| ECO PLATFORM EPD VERIFIED | ECO Platform | Web | www.eco-platform.org |
| | ECO Portal | Web | ECO Portal |
| EMIDAT | **Developer of EPD generator** | Phone | +49 176 56 96 77 91 |
| | Emidat GmbH | | |
| | Sandstraße 33, 80335 München | Email | epd@emidat.com |
| | Germany | Web | www.emidat.com |