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# Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

## F-B90



systemair

EPD-Global

**Owner of the declaration:**
Systemair Production a.s.

**Product:**
F-B90

**Declared unit:**
1 pcs

**This declaration is based on Product Category Rules:**
CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 030:2021 Part B for ventilation components

**Program operator:**
EPD-Global

**Declaration number:**
NEPD-8111-7763

**Issue date:**
14.11.2024

**Valid to:**
14.11.2029

**EPD software:**
LCAno EPD generator ID: 281991

## General information

**Product**

F-B90

**Owner of the declaration:**

Systemair Production a.s.
Contact person: Peter Sopkuliak
Phone: +421 2 4020 3111
e-mail: production@systemair.sk

**Program operator:**

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

**Manufacturer:**

Systemair Production a.s.

**Declaration number:**

NEPD-8111-7763

**Place of production:**

Systemair Production a.s.
Hlavná 371
900 43 Kalinkovo, Slovakia

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

CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 030:2021 Part B for ventilation components

**Management system:**

ISO 9001, ISO 14001

**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:**

SK2020363290

**Declared unit:**

1 pcs F-B90

**Issue date:**

14.11.2024

**Declared unit with option:**

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

**Valid to:**

14.11.2029

**Year of study:**

2023

**Functional unit:**

Not declared

**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: Peter Sopkuliak

Reviewer of company-specific input data and EPD: Adam Began - INACTIVE

**Verification of EPD tool:**

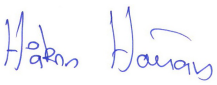
Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPD-Global's procedures and guidelines for verification and approval of EPD tools.

Third party verifier:

Alexander Borg, Asplan Viak AS

(no signature required)

**Approved:**



Håkon Hauan, CEO EPD-Global

## Product

### Product description:

The F-B90 fire damper is a fire protection device designed with compartmentalization to effectively prevent the spread of toxic gases, smoke, and fire. Its versatile design makes it suitable for various applications, including residential buildings, industrial facilities, hospitals, and more.

### Product specification

The F-B90 fire dampers are available in various options and sizes.
Specific EPD data is provided as a reference for the F-B90-400x625-11-B230T model.
Correction factors for other sizes can be estimated using the table in the Technical Data section below.

| Materials | kg | % |
|---|---|---|
| Adhesive | 0.004089 | 0.02005 |
| Chemical | 9.42 | 46.16 |
| Metal - Galvanized Steel | 8.73 | 42.78 |
| Metal - Steel | 0.696 | 3.41 |
| Motor | 1.40 | 6.86 |
| Plastic - Polyethylene | 0.1553 | 0.7614 |
| Total | 20.40 | 100.00 |

| Packaging | kg | % |
|---|---|---|
| Packaging - Cardboard | 0.14 | 14.89 |
| Packaging - label, supercalendered | 0.022 | 2.34 |
| Packaging - Wood | 0.7779 | 82.77 |
| Total incl. packaging | 21.34 | 100.00 |

### Technical data:

Technical details can be found at the following link:
https://design.systemair.com.

To estimate the Global Warming Potential (GWPtot) correction factor for specific product size use the table below. For sizes not listed, calculate the correction factor using the provided equation.

Each size has a specific correction factor. The correction factor is calculated by multiplying a coefficient by area "A" in $m^2$, derived from the product's nominal dimensions and adding the constant.

Equation for correction factors of unlisted sizes:
F-B90 factor = 1,786919 * A + 0,6516526

This equation enables you to estimate GWPtot correction factor for sizes not listed in the table. By using "A" for your desired product size, you can calculate the GWPtot correction factor.

| Product | Size | Weight (kg) | GWP-total (A1-A3) (kg CO2 eq) | Factor (-) |
|---|---|---|---|---|
| F-B90 | 150x250 | 8,38 | 23,06 | 0,43 |
| F-B90 | 200x500 | 28,87 | 66,59 | 1,242 |
| F-B90 | 400x625 | 21,34 | 53,61 | 1 |
| F-B90 | 600x875 | 33,87 | 82,45 | 1,538 |
| F-B90 | 800x1000 | 45,61 | 113 | 2,108 |

### Market:

Europe.

### Reference service life, product

Dependent on the application of the product.

### Reference service life, building or construction works

Not declared.

## LCA: Calculation rules

### Declared unit:

1 pcs F-B90

### 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. Energy, 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:

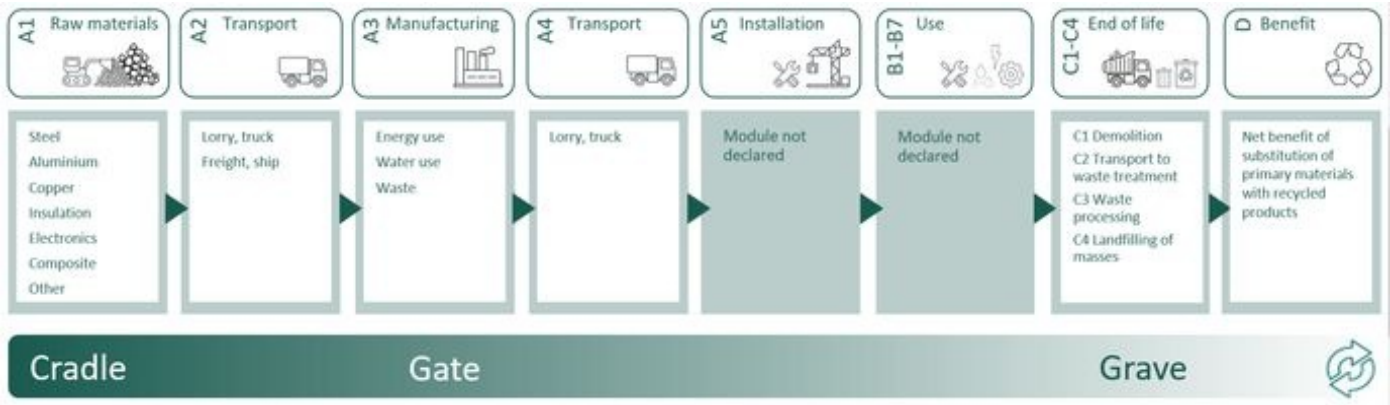
Specific data for the product composition are provided by the manufacturer. The data represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on EPDs according to EN 15804 and different LCA databases. The data quality of the raw materials in A1 is presented in the table below.

| Materials | Source | Data quality | Year |
|---|---|---|---|
| Adhesive | ecoinvent 3.6 | Database | 2019 |
| Chemical | ecoinvent 3.6 | Database | 2019 |
| Metal - Galvanized Steel | Modified ecoinvent 3.6 | Database | 2019 |
| Metal - Steel | ecoinvent 3.6 | Database | 2019 |
| Motor | ecoinvent 3.6 | Database | 2019 |
| Packaging - Cardboard | ecoinvent 3.6 | Database | 2019 |
| Packaging - label, supercalendered | Ecoinvent 3.6 | Database | 2019 |
| Packaging - Wood | Modified ecoinvent 3.6 | Database | 2019 |
| Plastic - Polyethylene | 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 | MND | MND | MND | MND | MND | MND | MND | MND | X | X | X | X | X |

### System boundary:




### Additional technical information:

For comprehensive technical information and documentation, please refer to the official Systemair website at https://www.systemair.com or the dedicated product-specific site at https://design.systemair.com.

## LCA: Scenarios and additional technical information

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

For A4 and C2, a generic transportation distance (EURO6 truck) of 300 km and 50 km, respectively, is declared. The true transportation distance can be provided in the project-specific EPD.

| 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) | 36.7 % | 300.00 | 0.043 | l/tkm | 12.90 |

| De-construction demolition (C1) | Unit | Value | | | |
|---|---|---|---|---|---|
| Demolition of building per kg of ventilation product (kg) | kg/DU | 20.40 | | | |

| Transport to waste processing (C2) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
|---|---|---|---|---|---|
| Truck, 16-32 tonnes, EURO 6 (km) | 36.7 % | 50.00 | 0.043 | l/tkm | 2.15 |

| Waste processing (C3) | Unit | Value | | | |
|---|---|---|---|---|---|
| Waste treatment per kg Hazardous waste, incineration (kg) | kg | 9.42 | | | |
| Materials to recycling (kg) | kg | 9.74 | | | |
| Waste treatment per kg Polyethylene (PE), incineration (kg) | kg | 0.07766 | | | |
| Waste treatment per kg bulk waste, excluding reinforcement, sorting plant (kg) | kg | 1.40 | | | |

| Disposal (C4) | Unit | Value | | | |
|---|---|---|---|---|---|
| Landfilling of ashes from incineration per kg Hazardous waste, process per kg ashes and residues (kg) | kg | 1.78 | | | |
| Waste, scrap zinc, to landfill (kg) | kg | 1.05 | | | |
| Waste, plastic, mixture, to landfill (kg) | kg | 0.07766 | | | |
| Landfilling of ashes from incineration of Polyethylene (PE), process per kg ashes and residues (kg) | kg | 0.002737 | | | |
| Waste, copper, to landfill (kg) | kg | 0.0224 | | | |
| Waste, aluminium, to landfill (kg) | kg | 0.00882 | | | |

| Benefits and loads beyond the system boundaries (D) | Unit | Value | | | |
|---|---|---|---|---|---|
| Substitution of electricity (MJ) | MJ | 0.162 | | | |
| Substitution of thermal energy, district heating (MJ) | MJ | 2.45 | | | |
| Substitution of primary steel with net scrap (kg) | kg | 4.60 | | | |
| Substitution of primary copper with net scrap (kg) | kg | 0.08564 | | | |
| Substitution of primary aluminium with net scrap (kg) | kg | 0.1139 | | | |

## 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 | C1 | C2 | C3 | C4 | D |
| | GWP-total | kg $CO_2$ -eq | 5.36E+01 | 1.05E+00 | 2.69E-02 | 1.74E-01 | 2.12E+01 | 7.92E-01 | -6.32E+00 |
| | GWP-fossil | kg $CO_2$ -eq | 5.33E+01 | 1.05E+00 | 2.69E-02 | 1.74E-01 | 2.11E+01 | 7.92E-01 | -6.29E+00 |
| | GWP-biogenic | kg $CO_2$ -eq | 2.62E-01 | 4.33E-04 | 5.04E-06 | 7.21E-05 | 5.24E-02 | 3.14E-04 | -8.42E-03 |
| | GWP-luluc | kg $CO_2$ -eq | 6.99E-02 | 3.72E-04 | 2.12E-06 | 6.20E-05 | 5.27E-03 | 7.61E-05 | -2.22E-02 |
| | ODP | kg CFC11 -eq | 5.44E-06 | 2.37E-07 | 5.81E-09 | 3.95E-08 | 2.39E-06 | 4.02E-08 | -1.04E-03 |
| | AP | mol H+ -eq | 5.77E-01 | 3.01E-03 | 2.81E-04 | 5.01E-04 | 3.07E-02 | 1.59E-03 | -6.65E-02 |
| | EP-FreshWater | kg P -eq | 3.84E-03 | 8.35E-06 | 9.79E-08 | 1.39E-06 | 5.01E-04 | 7.59E-06 | -5.83E-04 |
| | EP-Marine | kg N -eq | 5.54E-02 | 5.95E-04 | 1.24E-04 | 9.91E-05 | 6.36E-03 | 4.28E-04 | -7.52E-03 |
| | EP-Terrestial | mol N -eq | 1.23E+00 | 6.65E-03 | 1.36E-03 | 1.11E-03 | 7.16E-02 | 4.90E-03 | -8.50E-02 |
| | POCP | kg NMVOC -eq | 1.88E-01 | 2.55E-03 | 3.75E-04 | 4.25E-04 | 2.01E-02 | 1.37E-03 | -3.46E-02 |
| | ADP-minerals&metals[1] | kg Sb-eq | 2.45E-02 | 2.89E-05 | 4.13E-08 | 4.81E-06 | 7.29E-05 | 1.37E-06 | -2.78E-04 |
| | ADP-fossil[1] | MJ | 7.40E+02 | 1.58E+01 | 3.70E-01 | 2.64E+00 | 8.76E+01 | 3.80E+00 | -5.75E+01 |
| | WDP[1] | $m^3$ | 8.52E+03 | 1.53E+01 | 7.87E-02 | 2.55E+00 | 3.27E+02 | 9.36E+01 | -3.09E+02 |

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

Fire dampers directly affect the pressure drop / energy efficiency of the ventilation system and consequently the operational energy use of the building. To properly evaluate the environmental performance and impact of the product, these factors must be taken into account.

| Additional environmental impact indicators | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Indicator | | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| | PM | Disease incidence | 4.09E-06 | 6.40E-08 | 7.45E-09 | 1.07E-08 | 4.71E-07 | 1.15E-08 | -5.66E-07 |
| | IRP[2] | kgBq U235 -eq | 3.44E+00 | 6.91E-02 | 1.59E-03 | 1.15E-02 | 3.99E-01 | 2.10E-02 | -4.14E-02 |
| | ETP-fw[1] | CTUe | 1.93E+03 | 1.17E+01 | 2.02E-01 | 1.95E+00 | 4.25E+02 | 1.63E+01 | -6.14E+02 |
| | HTP-c[1] | CTUh | 1.88E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-08 | 1.09E-09 | -3.14E-08 |
| | HTP-nc[1] | CTUh | 4.86E-06 | 1.28E-08 | 1.84E-10 | 2.13E-09 | 1.23E-07 | 5.64E-08 | 1.16E-07 |
| | SQP[1] | dimensionless | 2.48E+02 | 1.11E+01 | 4.70E-02 | 1.84E+00 | 3.46E+01 | 1.09E+01 | -8.66E+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 | C1 | C2 | C3 | C4 | D |
| | PERE | MJ | 7.53E+01 | 2.26E-01 | 2.00E-03 | 3.77E-02 | 1.58E+01 | 4.49E-01 | -1.01E+01 |
| | PERM | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | PERT | MJ | 7.53E+01 | 2.26E-01 | 2.00E-03 | 3.77E-02 | 1.58E+01 | 4.49E-01 | -1.01E+01 |
| | PENRE | MJ | 7.34E+02 | 1.58E+01 | 3.70E-01 | 2.64E+00 | 8.77E+01 | 3.80E+00 | -5.74E+01 |
| | PENRM | MJ | 6.68E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -6.67E+00 | 0.00E+00 | 0.00E+00 |
| | PENRT | MJ | 7.40E+02 | 1.58E+01 | 3.70E-01 | 2.64E+00 | 8.10E+01 | 3.80E+00 | -5.74E+01 |
| | SM | kg | 2.90E+00 | 0.00E+00 | 1.82E-04 | 0.00E+00 | 1.54E-05 | 1.38E-06 | 5.99E-02 |
| | RSF | MJ | 2.19E+00 | 8.10E-03 | 4.93E-05 | 1.35E-03 | 3.49E-01 | 8.16E-03 | 1.86E-01 |
| | NRSF | MJ | 5.18E+00 | 2.90E-02 | 7.25E-04 | 4.83E-03 | 1.64E-05 | 8.04E-02 | 5.26E+00 |
| | FW | $m^3$ | 1.06E+00 | 1.69E-03 | 1.91E-05 | 2.82E-04 | 8.12E-02 | 6.66E-03 | -4.26E-02 |

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 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|---|
| | HWD | kg | 5.20E-01 | 8.15E-04 | 1.09E-05 | 1.36E-04 | 1.79E-06 | 2.32E-03 | -2.44E-02 |
| | NHWD | kg | 1.69E+01 | 7.69E-01 | 4.38E-04 | 1.28E-01 | 9.42E+00 | 2.94E+00 | -2.46E+00 |
| | RWD | kg | 3.09E-03 | 1.08E-04 | 2.57E-06 | 1.80E-05 | 1.81E-07 | 1.62E-07 | -4.18E-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 | 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 | 6.50E+00 | 0.00E+00 | 1.79E-04 | 0.00E+00 | 9.74E+00 | 8.20E-06 | -2.34E-03 |
| | MER | kg | 3.16E-01 | 0.00E+00 | 5.54E-07 | 0.00E+00 | 9.50E+00 | 2.08E-07 | -3.09E-04 |
| | EEE | MJ | 1.56E-01 | 0.00E+00 | 1.90E-06 | 0.00E+00 | 1.60E-01 | 1.12E-05 | -7.56E-04 |
| | EET | MJ | 2.36E+00 | 0.00E+00 | 2.87E-05 | 0.00E+00 | 2.42E+00 | 1.69E-04 | -1.14E-02 |

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 | 0.00E+00 |

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, Slovakia (kWh) | ecoinvent 3.6 | 519.35 | g CO2-eq/kWh |
| Electricity, Solar, Slovakia (kWh) | ecoinvent 3.6 | 91.57 | g CO2-eq/kWh |

### Dangerous substances

The product contains no substances on the REACH Candidate list at or above 100 ppm, 0,01 % by weight.

### Indoor environment

Fire dampers are used to compartmentalize and contain fires in buildings. They are critical measures used to ensure safe escape routes in the event of a fire.

## Additional Environmental Information

| Additional environmental impact indicators required in NPCR Part A for construction products | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Indicator** | **Unit** | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| GWPIOBC | kg $CO_2$ -eq | 5.35E+01 | 1.05E+00 | 2.69E-02 | 1.74E-01 | 2.12E+01 | 7.92E-01 | -8.67E+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.

## 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.
ecoinvent v3, Allocation, cut-off by classification, Swiss Centre of Life Cycle Inventories.
Iversen et al., (2021) eEPD v2021.09 Background information for EPD generator tool system verification, LCA.no Report number: 07.21
Graafland and Iversen (2022) EPD generator for NPCR 030 Ventilation components, Background information for EPD generator application and LCA data, LCA.no report number: 12.22
NPCR Part A: Construction products and services. Ver. 2.0. April 2021, EPD-Norge.
NPCR 030 Part B for Ventilation components, Ver. 1.0, 18.05.2021, EPD Norway.


| | | | |
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| ECO PLATFORM EPD VERIFIED | ECO Platform<br>ECO Portal | web:<br>web: | www.eco-platform.org<br>ECO Portal |