



Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

PA1508E02 Air Curtain





The Norwegian EPD Foundation

Owner of the declaration:

Frico AB

Product:

PA1508E02 Air Curtain

Declared unit:

1 pc

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:

The Norwegian EPD Foundation

Declaration number:

NEPD-8608-8270-EN

Registration number:

NEPD-8608-8270-EN

Issue date: 31.12.2024

Valid to: 31.12.2029

EPD software:

LCAno EPD generator ID: 707661



General information

Product

PA1508E02 Air Curtain

Program operator:

The Norwegian EPD Foundation
Post Box 5250 Majorstuen, 0303 Oslo, Norway

Phone: +47 977 22 020 web: www.epd-norge.no

Declaration number:

NEPD-8608-8270-EN

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

Statement of liability:

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

Declared unit:

1 pcs PA1508E02 Air Curtain

Declared unit with option:

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

Functional unit:

Not declared

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-Norway'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-Norway, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools

Verification of EPD tool:

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

Third party verifier:

Alexander Borg, Asplan Viak AS

(no signature required)

Owner of the declaration:

Frico AB

Contact person: Marie W. Andersson Phone: + 46 31336 86 92 e-mail: mailbox@frico.se

Manufacturer:

Frico AB

, Sweden

Place of production:

Frico AB Industrivägen 3 793 30 Skinnskatteberg, Sweden

Management system:

ISO 9001

Organisation no:

556573-3812

Issue date:

31.12.2024

Valid to:

31.12.2029

Year of study:

2022

Comparability:

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

Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system and has been approved by EPD Norway. NEPDT75 Systemair AB

Developer of EPD: Jimmy Frisk

Reviewer of company-specific input data and EPD: Karolina Persson

Approved:

Håkon Hauan, CEO EPD-Norge



Product

Product description:

PA1500 air curtain provides an air barrier between two temperature zones. Provided with electric coil heat.

Product specification

The EPD data i provided for size 1508E02 (reference).

| Materials | kg | % |
|---|------|--------|
| Electronic - Unspecified | 0,04 | 0,55 |
| Electronic - Wire | 0,38 | 4,95 |
| Metal - Galvanized Steel | 4,40 | 57,26 |
| Motor | 2,48 | 32,28 |
| Plastic - Acrylonitrile butadiene styrene (ABS) | 0,15 | 2,01 |
| Plastic - Polyamide | 0,02 | 0,31 |
| Metal - Steel | 0,04 | 0,57 |
| Chemical | 0,13 | 1,69 |
| Plastics | 0,03 | 0,38 |
| Total | 7,68 | 100,00 |
| Packaging | kg | % |
| Packaging - Cardboard | 0,40 | 93,02 |
| Packaging - Paper | 0,03 | 6,98 |
| Total incl. packaging | 8,11 | 100,00 |

Technical data:

For complete technical data including dynamic energy performance calculations, please refer to the product page on Frico.net.

| Size | Weight [kg] | GWP tot. (A1-A3) [kg CO2 eq] | Factor [-] |
|------|-------------|------------------------------|------------|
| 02 | 8.1 | 36 | 1.00 |
| 03 | 8.1 | 35 | 1 |

Market:

Europe

Reference service life, product

Not declared. Dependent on the application of the product.

Reference service life, building or construction works

Not declared.

LCA: Calculation rules

Declared unit:

1 pcs PA1508E02 Air Curtain

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.



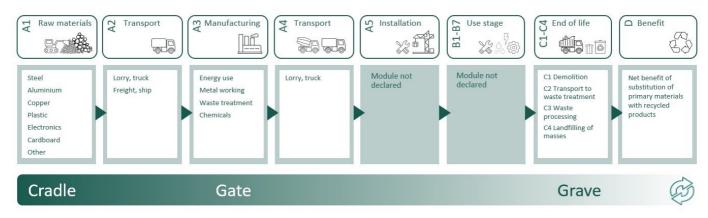
| Materials | Source | Data quality | Year |
|---|------------------------|--------------|------|
| Chemical | ecoinvent 3.6 | Database | 2019 |
| Electronic - Unspecified | ecoinvent 3.6 | Database | 2019 |
| Electronic - Wire | ecoinvent 3.6 | Database | 2019 |
| Metal - Galvanized Steel | Modified 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 - Paper | ecoinvent 3.6 | Database | 2019 |
| Plastic - Acrylonitrile butadiene styrene (ABS) | ecoinvent 3.6 | Database | 2019 |
| Plastic - Polyamide | ecoinvent 3.6 | Database | 2019 |
| Plastics | ecoinvent 3.6 | Database | 2019 |



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

| P | roduct stag | je | | uction ion stage | | | | Use stage | | | | | End of li | ife stage | | Beyond the system boundaries |
|------------------|-------------|---------------|-----------|---------------------|-----|-------------|--------|-------------|-------------------------|------------------------------|--------------------------|-----------------------------------|-----------|---------------------|----------|--|
| Raw materials | Transport | Manufacturing | Transport | Assembly | Use | Maintenance | Repair | Replacement | Refu <i>r</i> b ishment | Operational energy use | Operational water use | De- construction demolition | Transport | Waste processing | Disposal | Reuse-Recovery- Recycling-potential |
| A1 | A2 | A3 | A4 | A5 | B1 | B2 | В3 | B4 | B5 | В6 | В7 | C1 | C2 | C3 | C4 | D |
| Χ | Χ | Χ | Χ | MND | MNR | MND | MND | MND | MND | MND | MND | X | Χ | X | Χ | X |

System boundary:



Additional technical information:

Complete project specific technical documentation is generated using our online product selection tool. Please refer to the Frico website for more information.



LCA: Scenarios and additional technical information

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

For A4 a generic transportation distance (EURO6 truck) of 300 km is declared. True transportation distance can be provided in project specific EPD. For C2 a generic transportation distance (EURO6 truck) of 50 km is declared. True transportation distance can be provided in project specific EPD

| Transport from production place to user (A4) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
|---|--|---------------|-------------------------|-------|------------------------|
| Truck, over 32 tonnes, EURO 6 (km) | 53,3 % | 300 | 0,023 | l/tkm | 6,90 |
| De-construction demolition (C1) | Unit | Value | | | |
| Demolition of building per kg of ventilation product (kg) | kg | 7,70 | | | |
| Transport to waste processing (C2) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
| Truck, over 32 tonnes, EURO 6 (km) | 53,3 % | 50 | 0,023 | l/tkm | 1,15 |
| Waste processing (C3) | Unit | Value | | | |
| Waste treatment per kg plastic, industrial electronics, incineration (kg) | kg | 0,08 | | | |
| Waste treatment per kg wire plastic, municipal incineration (kg) | kg | 0,06 | | | |
| Materials to recycling (kg) | kg | 6,46 | | | |
| Waste treatment per kg Electronics scrap, Control units, incineration (kg) | kg | 0,04 | | | |
| Waste treatment per kg Hazardous waste, incineration (kg) | kg | 0,13 | | | |
| Waste treatment per kg bulk waste, excluding reinforcement, sorting plant (kg) | kg | 2,48 | | | |
| Waste treatment per kg Plastics, from incineration (kg) | kg | 0,03 | | | |
| Disposal (C4) | Unit | Value | | | |
| Waste, plastic, mixture, to landfill (kg) | kg | 0,17 | | | |
| Landfilling of ashes from incineration per kg plastic, industrial electronics, process per kg ashes and residues (kg) | kg | 0,01 | | | |
| Landfilling of ashes from incineration per kg wire plastic, process per kg ashes and residues (kg) | kg | 0,01 | | | |
| Waste, copper, to landfill (kg) | kg | 0,06 | | | |
| Landfilling of ashes from incineration of Electronics scrap, Control units, process of ashes and residues (kg) | kg | 0,03 | | | |
| Landfilling of ashes from incineration per kg Hazardous waste, process per kg ashes and residues (kg) | kg | 0,02 | | | |
| Waste, aluminium, to landfill (kg) | kg | 0,02 | | | |
| Waste, steel, to landfill (kg) | kg | 0,63 | | | |
| Landfilling of ashes from incineration of Plastics, process per kg ashes and residues (kg) | kg | 0,00 | | | |
| Benefits and loads beyond the system boundaries (D) | Unit | Value | | | |
| Substitution of thermal energy, district heating (MJ) | МЈ | 3,10 | | | |
| Substitution of electricity (MJ) | МЈ | 0,21 | | | |
| Substitution of primary copper with net scrap (kg) | kg | 0,35 | | | |
| Substitution of primary aluminium with net scrap (kg) | kg | 0,20 | | | |
| Substitution of primary steel with net scrap (kg) | kg | 3,83 | | | |



LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

| Environ | mental impact | | | | | | | | |
|----------|----------------------------------|------------------------|----------|----------|----------|----------|----------|----------|-----------|
| | Indicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| | GWP-total | kg CO ₂ -eq | 3,63E+01 | 2,12E-01 | 1,02E-02 | 3,53E-02 | 7,69E-01 | 3,93E-02 | -6,91E+00 |
| | GWP-fossil | kg CO ₂ -eq | 3,60E+01 | 2,12E-01 | 1,02E-02 | 3,53E-02 | 7,68E-01 | 3,93E-02 | -6,86E+00 |
| | GWP-biogenic | kg CO ₂ -eq | 1,14E-01 | 9,07E-05 | 1,90E-06 | 1,51E-05 | 9,29E-04 | 1,86E-05 | -1,45E-02 |
| | GWP-luluc | kg CO ₂ -eq | 1,15E-01 | 6,45E-05 | 8,00E-07 | 1,07E-05 | 8,48E-05 | 4,33E-06 | -3,74E-02 |
| ٨ | ODP | kg CFC11 -eq | 2,69E-06 | 5,10E-08 | 2,20E-09 | 8,51E-09 | 3,68E-08 | 2,99E-09 | -1,31E-03 |
| CE CE | АР | mol H+ -eq | 5,39E-01 | 6,81E-04 | 1,06E-04 | 1,14E-04 | 5,74E-04 | 8,23E-05 | -1,73E-01 |
| | EP-FreshWater | kg P -eq | 3,89E-03 | 1,68E-06 | 3,70E-08 | 2,81E-07 | 7,39E-06 | 2,33E-07 | -1,27E-03 |
| * | EP-Marine | kg N -eq | 4,72E-02 | 1,49E-04 | 4,69E-05 | 2,49E-05 | 1,46E-04 | 4,60E-05 | -1,17E-02 |
| * | EP-Terrestial | mol N -eq | 1,00E+00 | 1,66E-03 | 5,14E-04 | 2,77E-04 | 1,59E-03 | 2,95E-04 | -1,51E-01 |
| | POCP | kg NMVOC -eq | 1,86E-01 | 6,54E-04 | 1,41E-04 | 1,09E-04 | 4,26E-04 | 8,72E-05 | -5,11E-02 |
| B | ADP-minerals&metals ¹ | kg Sb-eq | 1,98E-02 | 3,77E-06 | 1,56E-08 | 6,29E-07 | 1,32E-06 | 2,31E-07 | -8,52E-04 |
| | ADP-fossil ¹ | MJ | 4,58E+02 | 3,44E+00 | 1,40E-01 | 5,73E-01 | 1,42E+00 | 2,31E-01 | -6,60E+01 |
| <u>@</u> | WDP ¹ | m ³ | 3,22E+03 | 2,64E+00 | 2,97E-02 | 4,39E-01 | 8,55E+00 | 2,01E+00 | -7,65E+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

Remarks to environmental impacts

This product uses electric energy for fan drive and distributes thermal energy via an electric coil. Total environmental impact is project specific and vary depending on several variables such as:

- -Climate
- -Estate properties
- -Energy source

[&]quot;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



| Additional | environmental i | mpact indicators | | | | | | | |
|---------------------|---------------------|-------------------|----------|----------|----------|-----------|----------|----------|-----------|
| lı | ndicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| | PM | Disease incidence | 8,40E-05 | 1,94E-08 | 2,81E-09 | 3,24E-09 | 7,33E-09 | 1,22E-09 | -7,63E-07 |
| ()°() | IRP ² | kgBq U235 -eq | 1,65E+00 | 1,50E-02 | 5,99E-04 | 2,50E-03 | 6,66E-03 | 1,08E-03 | -9,48E-02 |
| 4 | ETP-fw ¹ | CTUe | 3,90E+03 | 2,51E+00 | 7,64E-02 | 4, 19E-01 | 1,10E+01 | 1,06E+01 | -1,55E+03 |
| 48. *** <u>B</u> | HTP-c ¹ | CTUh | 2,20E-07 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 3,19E-10 | 1,52E-09 | -4,30E-08 |
| % <u>d</u> | HTP-nc ¹ | CTUh | 5,13E-06 | 2,43E-09 | 6,90E-11 | 4,05E-10 | 5,33E-09 | 1,04E-07 | -1,17E-06 |
| | SQP ¹ | dimensionless | 1,59E+02 | 3,94E+00 | 1,77E-02 | 6,57E-01 | 5,58E-01 | 7,06E-01 | -2,09E+01 |

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)

[&]quot;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

^{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 | | | | | | | | | |
|--------------|----------|----------------|----------|----------|----------|----------|-----------|----------|-----------|
| li | ndicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| | PERE | MJ | 4,92E+01 | 4,32E-02 | 7,56E-04 | 7,21E-03 | 2,50E-01 | 1,21E-02 | -1,57E+01 |
| | PERM | MJ | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Ţ, | PERT | MJ | 4,92E+01 | 4,32E-02 | 7,56E-04 | 7,21E-03 | 2,50E-01 | 1,21E-02 | -1,57E+01 |
| | PENRE | MJ | 4,44E+02 | 3,44E+00 | 1,40E-01 | 5,73E-01 | 1,42E+00 | 2,31E-01 | -6,59E+01 |
| . Ag | PENRM | MJ | 1,43E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | -8,79E+00 | 0,00E+00 | 0,00E+00 |
| IA. | PENRT | MJ | 4,58E+02 | 3,44E+00 | 1,40E-01 | 5,73E-01 | -7,38E+00 | 2,31E-01 | -6,59E+01 |
| | SM | kg | 4,23E+00 | 0,00E+00 | 6,86E-05 | 0,00E+00 | 2,73E-05 | 8,68E-06 | 2,43E-01 |
| 2 | RSF | MJ | 5,75E-01 | 1,51E-03 | 1,86E-05 | 2,52E-04 | 5,42E-03 | 2,47E-04 | 1,72E-01 |
| | NRSF | MJ | 4,21E+00 | 5,07E-03 | 2,74E-04 | 8,45E-04 | 2,80E-06 | 1,25E-03 | 4,40E+00 |
| % | FW | m ³ | 4,32E-01 | 3,91E-04 | 7,19E-06 | 6,52E-05 | 5,14E-03 | 3,53E-04 | -7,62E-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; SM = Use of secondary materials; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

[&]quot;Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed



| E | ind of life - Waste | | | | | | | | | |
|---|---------------------|---------|------|----------|----------|----------|----------|----------|----------|-----------|
| | Inc | dicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| | | HWD | kg | 3,52E-01 | 1,88E-04 | 4,11E-06 | 3,13E-05 | 1,43E-04 | 7,74E-03 | -2,38E-02 |
| | Ū | NHWD | kg | 1,21E+01 | 2,99E-01 | 1,65E-04 | 4,98E-02 | 1,50E-01 | 9,38E-01 | -2,65E+00 |
| | ß | RWD | kg | 1,22E-03 | 2,35E-05 | 9,70E-07 | 3,91E-06 | 4,01E-07 | 5,19E-07 | -9,12E-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" *INA Indicator Not Assessed

| End of life - Output flo | End of life - Output flow | | | | | | | | | | | |
|--------------------------|---------------------------|------|----------|----------|----------|----------|----------|----------|-----------|--|--|--|
| Indicat | or | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D | | | |
| @▷ | CRU | kg | 0,00E+00 | | | |
| \$₽ | MFR | kg | 1,69E+00 | 0,00E+00 | 6,74E-05 | 0,00E+00 | 6,46E+00 | 2,18E-05 | -9,52E-03 | | | |
| DØ | MER | kg | 2,18E-01 | 0,00E+00 | 2,09E-07 | 0,00E+00 | 2,70E-01 | 6,17E-07 | -1,25E-03 | | | |
| 5₽ | EEE | MJ | 1,21E-01 | 0,00E+00 | 7,16E-07 | 0,00E+00 | 2,30E-01 | 2,45E-05 | -3,07E-03 | | | |
| DØ | EET | MJ | 1,84E+00 | 0,00E+00 | 1,08E-05 | 0,00E+00 | 3,47E+00 | 3,71E-04 | -4,65E-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" *INA Indicator Not Assessed

| Biogenic Carbon Content | | | | | | | | | | |
|-------------------------|---------------------|--|--|--|--|--|--|--|--|--|
| Unit | At the factory gate | | | | | | | | | |
| kg C | 0,00E+00 | | | | | | | | | |
| kg C | 0,00E+00 | | | | | | | | | |
| | kg C | | | | | | | | | |

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, Vattenfall Nordic Hydropower (kWh) - SE - S-P-00088 | S-P-00088 | 7,26 | g CO2-eg/kWh |

Dangerous substances

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

Indoor environment

The PA1500 air curtain provides an air barrier to preserve the indoor environment, distributed by electrical fans. PA1500 together with an internal control offers indoor climate adaptable to each unique area of use.

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 | 3,62E+01 | 2,12E-01 | 1,02E-02 | 3,53E-02 | 7,69E-01 | 3,94E-02 | -8,48E+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.

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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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| Global program operatør | Post Box 5250 Majorstuen, 0303 Oslo, Norway | web: www.epd-norge.no |
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| ECO PLATFORM | ECO Platform | web: www.eco-platform.org |
| VERIFIED | ECO Portal | web: ECO Portal |
| | | |