

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

VDW





Owner of the declaration:

TROX Group

Product: VDW

Declared unit:

This declaration is based on Product Category Rules:

NPCR 030:2021 Part B for ventilation components

CEN Standard EN 15804:2012+A2:2019 serves as core

Program operator:

The Norwegian EPD Foundation

Declaration number:

NEPD-5501-4818-EN

Registration number:

NEPD-5501-4818-EN

Issue date: 05.12.2023

Valid to: 05.12.2028

EPD Software:

LCA.no EPD generator ID: 56662

The Norwegian EPD Foundation



General information

Product

VDW

Program operator:

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

Phone: +47 23 08 80 00 web: post@epd-norge.no

Declaration number: NEPD-5501-4818-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 VDW

Declared unit with option:

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

Functional unit:

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:

TROX Group

Contact person: Dirk Scherder Phone: +49 2845 2020

e-mail: productsustainability-de@troxgroup.com

Manufacturer:

TROX Group Heinrich-Trox-Platz 1

47506 Neukirchen-Vluyn, Germany

Place of production:

TROX GmbH - Neukirchen-Vluyn

Heinrich-Trox-Platz 1

47506 Neukirchen-Vluyn, Germany

Management system:

ISO 9001, ISO 14001:2015, ISO 50001:2018

Organisation no:

DE 120250070

Issue date: 05 12 2023

Valid to: 05.12.2028

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.

Developer of EPD: Jule Dallmann

Reviewer of company-specific input data and EPD: David Meiering

Approved:

Managing Director of EPD-Norway



Product

Product description:

With low sound power level for comfort zones, with individually manually adjustable air control blades.

For more information see: www.trox.de/en/9a223ad7f3c464c5

Product specification

Ceiling swirl diffusers with square or circular diffuser face. Supply air and extract air variants for comfort zones, for a maximum air change rate of 35 per hour. Diffuser face with individually manually adjustable air control blades for horizontal swirling supply air discharge creating high induction levels. For installation into all types of suspended ceilings. Ready-to-install component consisting of the diffuser face with radially arranged, individually adjustable black or white set of air control blades and a plenum box, which is also square in the case of square faceplates (-Q) and round in the case of rounded faceplates (-R). The plenum box has an equalising element for supply air. The plenum box always includes a horizontally or vertically arranged spigot, cross bar and drilled holes or suspension lugs for suspension. The diffuser face is fixed to the cross bar with a central screw, concealed by a decorative cap. Spigot suitable for ducts to EN 1506 or EN 13180. Sound power level of the air-regenerated noise measured according to EN ISO 5135.

This EPD includes the environmental data of the product series VDW.

The following represents a representative dataset of the most sold variant in the declared sales year (VDW-Q-Z-0-M-0/400x16/0).

| Materials | kg | % |
|---|------|-------|
| Coating materials | 0,01 | 0,44 |
| Metal - Steel | 1,05 | 46,17 |
| Plastic - Acrylonitrile butadiene styrene (ABS) | 1,18 | 52,07 |
| Powder coating | 0,03 | 1,32 |
| Total | 2,27 | |

| Packaging | kg | % |
|-----------------------|------|--------|
| Packaging - Cardboard | 0,14 | 100,00 |
| Total incl. packaging | 2,41 | |

Technical data:

Nominal sizes 300, 400, 500, 600, 625, 825 mm.

Minimum volume flow rate, with $tz = -6 K7 - 99 I/s \text{ or } 25 - 357 \text{ m}^3/h$.

Maximum volume flow rate, with LWA 50 dB(A)80 – 470 l/s or 288 - 1692 m³/h.

Supply air to room air temperature difference 12 – 10 K.

For more technical data see: www.trox.de/en/9a223ad7f3c464c5

Market:

Europe.

Reference service life, product

20-25 years.

Reference service life, building or construction works

60 years.

LCA: Calculation rules

Declared unit:

1 pcs VDW

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.



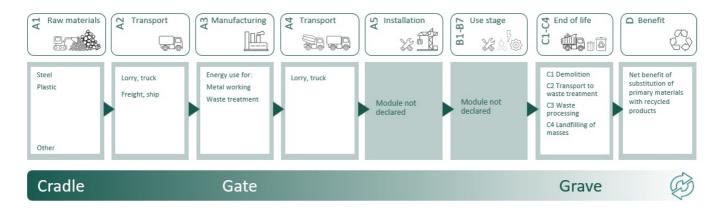
| Materials | Source | Data quality | Year |
|---|-------------------------------|----------------|------|
| Coating materials | ecoinvent 3.6 | Database | 2019 |
| Packaging - Cardboard | ecoinvent 3.6 | Database | 2019 |
| Plastic - Acrylonitrile butadiene styrene (ABS) | ecoinvent 3.6 | Database | 2019 |
| Powder coating | ecoinvent 3.6 | Database | 2019 |
| Metal - Steel | EPD S-P-01921 + ecoinvent 3.6 | EPD + database | 2020 |



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 | В3 | B4 | B5 | В6 | В7 | C1 | C2 | C3 | C4 | D |
| Х | Х | Х | Х | MND | MND | MND | MND | MND | MND | MND | MND | X | Х | Х | Χ | X |

System boundary:



Additional technical information:

Circular and square ceiling swirl diffusers for high room air change rates.

Nominal sizes 300, 400, 500, 600, 625, 825.

Volume flow rate range 7 - 470l/s or 25 -1692m³/h.

Diffuser face made of galvanised sheet steel, powder-coated.

For variable and constant volume flows.

For all types of ceiling systems, and with an extended border also suitable for freely suspended installation.

High induction results in a rapid reduction of the temperature difference and airflow velocity.

Very high room air change rate due to row arrangement with a minimum pitch distance of 0. 9 m.

Ideal for comfort zones.

Circular diffuser faces can be easily mounted without tools in a circular plenum box with horizontal spigot.

Optional equipment and accessories:

Exposed diffuser face available in RAL CLASSIC colours, air control blades in black or white.

Horizontal or vertical duct connection.

Square plenum box with cord-operated damper unit and pressure tap.



LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the 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 % | 800 | 0,043 | l/tkm | 34,40 |
| De-construction demolition (C1) | Unit | Value | | | |
| Demolition of building per kg of ventilation product (kg) | kg/DU | 2,28 | | | |
| 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 | 0,043 | l/tkm | 2,15 |
| Waste processing (C3) | Unit | Value | | | |
| Materials to recycling (kg) | kg | 0,95 | | | |
| Waste treatment per kg Hazardous waste, incineration (kg) | kg | 0,03 | | | |
| Waste treatment per kg Plastics, incineration (kg) | kg | 0,59 | | | |
| Disposal (C4) | Unit | Value | | | |
| Landfilling of ashes from incineration of Plastics, process per kg ashes and residues (kg) | kg | 0,01 | | | |
| Landfilling of ashes from incineration per kg Hazardous waste, from incineration (kg) | kg | 0,00 | | | |
| Waste, hazardous waste, to landfill (kg) | kg | 0,02 | | | |
| Waste, plastic, mixture, to landfill (kg) | kg | 0,59 | | | |
| Waste, scrap steel, to landfill (kg) | kg | 0,11 | | | |
| Benefits and loads beyond the system boundaries (D) | Unit | Value | | | |
| Substitution of electricity (MJ) | MJ | 0,00 | | | |
| Substitution of primary steel with net scrap (kg) | kg | 0,22 | | | |
| Substitution of thermal energy, district heating (MJ) | МЈ | 0,00 | | | |



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 | 1,34E+01 | 3,15E-01 | 3,01E-03 | 1,97E-02 | 1,44E+00 | 7,34E-02 | -2,37E-01 |
| | GWP-fossil | kg CO ₂ -eq | 1,35E+01 | 3,15E-01 | 3,01E-03 | 1,97E-02 | 1,44E+00 | 7,34E-02 | -2,37E-01 |
| | GWP-biogenic | kg CO ₂ -eq | -1,05E-01 | 1,30E-04 | 5,64E-07 | 8,15E-06 | 1,92E-04 | 1,01E-05 | -1,31E-04 |
| | GWP-luluc | kg CO ₂ -eq | 8,21E-03 | 1,12E-04 | 2,37E-07 | 7,01E-06 | 3,73E-05 | 2,99E-05 | -1,07E-04 |
| ٨ | ODP | kg CFC11 -eq | 8,67E-07 | 7,13E-08 | 6,50E-10 | 4,46E-09 | 1,55E-08 | 2,34E-09 | -1,51E-06 |
| Œ. | AP | mol H+ -eq | 8,10E-02 | 9,05E-04 | 3,14E-05 | 5,66E-05 | 2,79E-04 | 7,30E-05 | -1,18E-03 |
| - | EP-FreshWater | kg P -eq | 5,59E-04 | 2,52E-06 | 1,09E-08 | 1,57E-07 | 2,25E-06 | 2,27E-07 | -1,46E-05 |
| - | EP-Marine | kg N -eq | 1,18E-02 | 1,79E-04 | 1,39E-05 | 1,12E-05 | 9,07E-05 | 9,42E-05 | -2,44E-04 |
| - | EP-Terrestial | mol N -eq | 2,18E-01 | 2,00E-03 | 1,52E-04 | 1,25E-04 | 9,23E-04 | 2,66E-04 | -2,49E-03 |
| | POCP | kg NMVOC -eq | 4,36E-02 | 7,67E-04 | 4,19E-05 | 4,80E-05 | 2,33E-04 | 9,63E-05 | -1,19E-03 |
| | ADP-minerals&metals ¹ | kg Sb -eq | 3,67E-03 | 8,70E-06 | 4,61E-09 | 5,44E-07 | 5,61E-07 | 7,10E-08 | -4,09E-06 |
| | ADP-fossil ¹ | MJ | 2,19E+02 | 4,76E+00 | 4,14E-02 | 2,98E-01 | 4,70E-01 | 1,96E-01 | -1,99E+00 |
| <u></u> | WDP ¹ | m^3 | 6,47E+02 | 4,61E+00 | 8,79E-03 | 2,88E-01 | 1,76E+00 | 1,45E+00 | 1,23E+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

Remarks to environmental impacts

[&]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 | Additional environmental impact indicators | | | | | | | | | | | |
|----------------------|--|-------------------|----------|----------|----------|----------|----------|----------|-----------|--|--|--|
| li li | ndicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D | | | |
| | PM | Disease incidence | 7,25E-07 | 1,93E-08 | 8,32E-10 | 1,21E-09 | 2,36E-09 | 1,35E-09 | -1,97E-08 | | | |
| | IRP ² | kgBq U235 -eq | 4,57E-01 | 2,08E-02 | 1,77E-04 | 1,30E-03 | 1,99E-03 | 8,27E-04 | 8,49E-04 | | | |
| 4 | ETP-fw ¹ | CTUe | 2,47E+02 | 3,53E+00 | 2,26E-02 | 2,21E-01 | 4,77E+00 | 2,90E-01 | -1,32E+01 | | | |
| 48.* *** ! | HTP-c ¹ | CTUh | 2,63E-08 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,67E-10 | 2,40E-11 | -1,14E-09 | | | |
| ₩ <u>B</u> | HTP-nc ¹ | CTUh | 3,46E-07 | 3,86E-09 | 2,10E-11 | 2,41E-10 | 2,73E-09 | 2,64E-10 | 2,48E-08 | | | |
| | SQP ¹ | dimensionless | 4,59E+01 | 3,33E+00 | 5,25E-03 | 2,08E-01 | 1,39E-01 | 6,85E-01 | -1,51E-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 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 | | | | | | | | | |
|--------------|----------|----------------|----------|----------|----------|----------|----------|----------|-----------|
| li | ndicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| | PERE | MJ | 1,23E+01 | 6,82E-02 | 2,24E-04 | 4,26E-03 | 6,51E-02 | 2,01E-02 | -1,64E-01 |
| | PERM | MJ | 1,11E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| T, | PERT | MJ | 1,34E+01 | 6,82E-02 | 2,24E-04 | 4,26E-03 | 6,51E-02 | 2,01E-02 | -1,64E-01 |
| | PENRE | MJ | 1,64E+02 | 4,76E+00 | 4,14E-02 | 2,98E-01 | 4,70E-01 | 1,96E-01 | -1,99E+00 |
| . La | PENRM | MJ | 5,46E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| I | PENRT | MJ | 2,19E+02 | 4,76E+00 | 4,14E-02 | 2,98E-01 | 4,70E-01 | 1,96E-01 | -1,99E+00 |
| | SM | kg | 7,78E-01 | 0,00E+00 | 2,03E-05 | 0,00E+00 | 0,00E+00 | 3,89E-04 | 0,00E+00 |
| 2 | RSF | MJ | 1,05E+00 | 2,44E-03 | 5,51E-06 | 1,52E-04 | 1,51E-03 | 1,83E-04 | 8,55E-03 |
| | NRSF | MJ | 1,91E+00 | 8,72E-03 | 8,10E-05 | 5,45E-04 | 0,00E+00 | 3,28E-03 | 2,49E-01 |
| ⊗ | FW | m ³ | 1,62E-01 | 5,09E-04 | 2,13E-06 | 3,18E-05 | 6,32E-04 | 2,29E-04 | -5,01E-04 |

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 resources used as raw materials; PENRM = Use of non renewable primary energy resources; SM = Use of secondary materials; PENRM = 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



| End of life - Waste | | | | | | | | | |
|---------------------|---------|------|----------|----------|----------|----------|----------|----------|-----------|
| In | dicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| | HWD | kg | 1,01E-01 | 2,46E-04 | 1,22E-06 | 1,53E-05 | 0,00E+00 | 1,52E-02 | -1,23E-03 |
| Ī | NHWD | kg | 2,94E+00 | 2,32E-01 | 4,90E-05 | 1,45E-02 | 2,50E-02 | 7,03E-01 | -9,68E-02 |
| ₩ | RWD | kg | 4,35E-04 | 3,24E-05 | 2,87E-07 | 2,03E-06 | 0,00E+00 | 8,99E-07 | 6,52E-07 |

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 | 1,15E+00 | 0,00E+00 | 2,00E-05 | 0,00E+00 | 9,45E-01 | 5,31E-05 | 0,00E+00 | | | |
| DØ | MER | kg | 7,98E-06 | 0,00E+00 | 6,19E-08 | 0,00E+00 | 2,50E-02 | 1,30E-06 | 0,00E+00 | | | |
| 5₽ | EEE | MJ | 8,46E-02 | 0,00E+00 | 2,12E-07 | 0,00E+00 | 2,48E-05 | 8,43E-05 | 0,00E+00 | | | |
| DØ | EET | MJ | 1,28E+00 | 0,00E+00 | 3,21E-06 | 0,00E+00 | 3,75E-04 | 1,27E-03 | 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 | | | | | | | | | | |
|-------------------------|---------------------|--|--|--|--|--|--|--|--|--|
| Unit | At the factory gate | | | | | | | | | |
| kg C | 0,00E+00 | | | | | | | | | |
| kg C | 6,25E-02 | | | | | | | | | |
| | 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 | Data source | Amount | Unit |
|--|---------------|--------|--------------|
| Electricity, market mix, Germany (kWh) | ecoinvent 3.6 | 585,93 | g CO2-eg/kWh |

Dangerous substances

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

Indoor environment

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 | 1,36E+01 | 3,15E-01 | 3,01E-03 | 1,97E-02 | 1,44E+00 | 3,85E-03 | -3,55E-01 | | |

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

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EN ISO 9001:2015 - Quality management systems.

EN ISO 14001:2015 - Environmental management systems.

EN ISO 50001:2018 - Energy management systems.

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| | | | | |