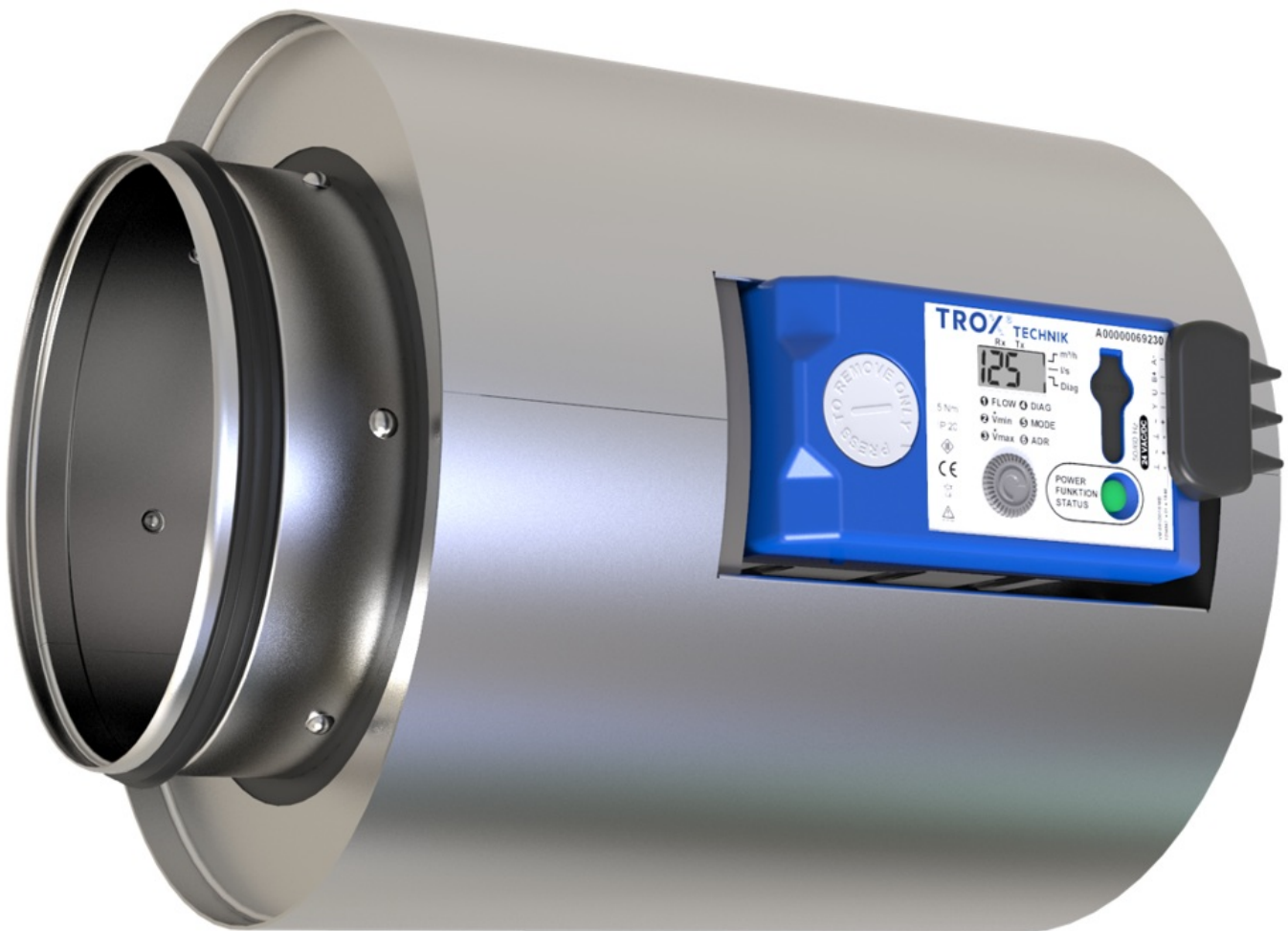


# Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

TVE-D



**Owner of the declaration:**

TROX Group

**Product:**

TVE-D

**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:**

The Norwegian EPD Foundation

**Declaration number:**

NEPD-5556-4856-EN

**Registration number:**

NEPD-5556-4856-EN

**Issue date:** 13.12.2023

**Valid to:** 13.12.2028

**EPD Software:**

LCA.no EPD generator ID: 106148

The Norwegian EPD Foundation

## General information

### Product

TVE-D

### Program operator:

Post Box 5250 Majorstuen, 0303 Oslo, Norway  
The Norwegian EPD Foundation  
Phone: +47 23 08 80 00  
web: [post@epd-norge.no](mailto:post@epd-norge.no)

**Declaration number:** NEPD-5556-4856-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 TVE-D

### 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 EPD Norway'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](mailto:productsustainability-de@troxgroup.com)

### Manufacturer:

TROX Group  
Heinrich-Trox-Platz 1  
47506 Neukirchen-Vluyn, Germany

### Place of production:

TROX GmbH - Werk Anholt  
Gendringer Str. 85  
46419 Isselburg, Germany

### Management system:

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

### Organisation no:

DE 120250070

**Issue date:** 13.12.2023

**Valid to:** 13.12.2028

### 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: Philipp Ceulaers

Reviewer of company-specific input data and EPD: Phil Niklas

### Approved:

Håkon Hauan  
Managing Director of EPD-Norway

## Product

### Product description:

Compact solution for low airflow velocities.

Circular air terminal units for variable air volume systems with low airflow velocities, suitable even with unfavourable upstream conditions.

For more information see: [www.trox.de/en/682cfabcc63d94b5](http://www.trox.de/en/682cfabcc63d94b5)

### Product specification

Circular VAV terminal units for variable and constant air volume systems, suitable for supply or extract air, available in 7 nominal sizes. High control accuracy even in case of unfavourable upstream conditions. Control range at least 1:25. The effective pressure is captured by means of the damper blade, which is controlled accordingly. The effective pressure is transmitted to the control component via a channel in the shaft (no measuring tubes required). Closed blade air leakage to EN 1751: at least class 3, from NS 200: class 4. Casing air leakage to EN 1751, class C. Ready-to-commission unit which consists of the mechanical parts and the factory mounted electronic control component. Position of the damper blade indicated externally at the control component The damper blade is factory set to open position, which allows a ventilation airflow even without control. Meets the hygiene requirements of EN 16798, Part 3, of VDI 6022, Sheet 1, and of DIN 1946, Part 4.

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

The following represents a representative dataset of the most sold variant in the declared sales year (TVE-D/125/EASY).

Materials	kg	%
Electronic - Unspecified	0,62	17,72
Glass fibre reinforced plastic, polyamide	0,10	2,84
Insulation, Mineral based	0,09	2,66
Metal - Galvanized Steel	2,44	69,61
Metal - Stainless steel	0,00	0,11
Others	0,01	0,29
Plastic - Ethylene vinyl acetate (EVA)	0,00	0,01
Plastic - Polybutylene terephthalate (PBT)	0,00	0,14
Plastic - Polyethylene	0,20	5,72
Plastic - Polyurethane (PUR)	0,02	0,46
Rubber, synthetic	0,02	0,45
Total	3,50	

Packaging	kg	%
Packaging - Cardboard	0,19	28,57
Packaging - Pallet	0,44	66,67
Packaging - Paper	0,03	4,76
Total incl. packaging	4,15	

### Technical data:

Nominal sizes: 100 – 400 mm

Volume flow rate range: 4 - 1388 l/s or 14 - 5000 m<sup>3</sup>/h

Volume flow rate control range (unit with dynamic effective pressure measurement): Approx. 4 – 100 % of the nominal volume flow rate

Minimum differential pressure: Up to 50 Pa (without circular silencer)

Maximum differential pressure: Control component with dynamic transducer: 900 Pa, control component with static transducer: 600 Pa

Operating temperature: 10 to 50 °C

For more technical data see: [www.trox.de/en/682cfabcc63d94b5](http://www.trox.de/en/682cfabcc63d94b5)

### 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 TVE-D

### 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:

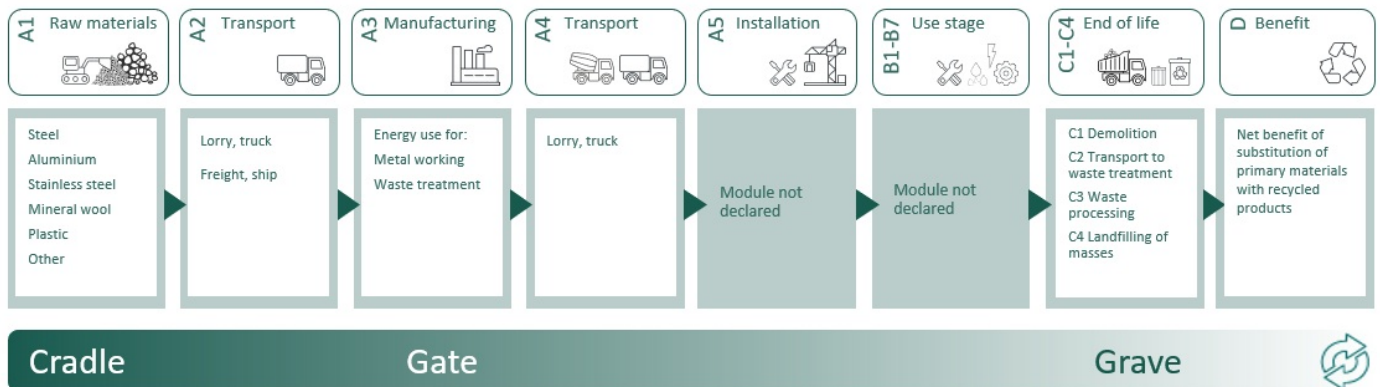
Specific data for the product composition are provided by the manufacturer. The data represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on EPDs according to EN 15804 and different LCA databases. The data quality of the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

Materials	Source	Data quality	Year
Electronic - Unspecified	ecoinvent 3.6	Database	2019
Insulation, Mineral based	ecoinvent 3.6	Database	2019
Metal - Stainless steel	ecoinvent 3.6	Database	2019
Others	ecoinvent 3.6	Database	2019
Packaging - Cardboard	ecoinvent 3.6	Database	2019
Packaging - Pallet	ecoinvent 3.6	Database	2019
Packaging - Paper	ecoinvent 3.6	Database	2019
Plastic - Ethylene vinyl acetate (EVA)	ecoinvent 3.6	Database	2019
Plastic - Polybutylene terephthalate (PBT)	ecoinvent 3.6	Database	2019
Plastic - Polyethylene	ecoinvent 3.6	Database	2019
Plastic - Polyurethane (PUR)	ecoinvent 3.6	Database	2019
Rubber, synthetic	ecoinvent 3.6	Database	2019
Metal - Galvanized Steel	EPD S-P-01921 + ecoinvent 3.6	EPD + database	2020
Glass fibre reinforced plastic, polyamide	Modified 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:

- Effective pressure measurement not with a tube, but by means of the damper blade.
- Effective pressure transmission through effective pressure channel in the shaft.
- Terminals with protective cover, no junction box required.
- Any airflow direction if dynamic transducer is used.
- Suitable for airflow velocities of 0.5 – 13 m/s.
- Compact dimensions allow for use in restricted spaces.
- Plug-and-play solution in conjunction with X-AIRCONTROL room control
- Exact measurement even with low airflow velocities.
- Any installation orientation even with static transducer.
- Closed blade air leakage to EN 1751, at least class 3.
- Casing air leakage to EN 1751, class C.
- Volume flow rate range 1:25

### Optional equipment and accessories:

- Acoustic cladding for the reduction of case-radiated noise.
- Secondary silencer CA (for Germany and Switzerland), CAH (for EMEA) or CF for the reduction of air-regenerated noise.
- Hot water heat exchanger WL and electric air heater EL for reheating the airflow.














## 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	3,49			
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	2,19			
Waste treatment per kg Electronic scrap, incineration (kg)	kg	0,62			
Waste treatment per kg Hazardous waste, incineration (kg)	kg	0,01			
Waste treatment per kg Plastics, incineration (kg)	kg	0,06			
Waste treatment per kg Polyethylene (PE), incineration (kg)	kg	0,10			
Waste treatment per kg Rubber, municipal incineration with fly ash extraction (kg)	kg	0,01			
Disposal (C4)					
	Unit	Value			
Landfilling of ashes from incineration of Electronic scrap, process of ashes and residues (kg)	kg	0,44			
Landfilling of ashes from incineration of Plastics, process per kg ashes and residues (kg)	kg	0,00			
Landfilling of ashes from incineration of Polyethylene (PE), process per kg ashes and residues (kg)	kg	0,00			
Landfilling of ashes from incineration of Rubber, municipal incineration with fly ash extraction (kg)	kg	0,00			
Landfilling of ashes from incineration per kg Hazardous waste, from incineration (kg)	kg	0,00			
Waste, mineral wool, to landfill (kg)	kg	0,09			
Waste, plastic, mixture, to landfill (kg)	kg	0,17			
Waste, scrap steel, to landfill (kg)	kg	0,24			
Benefits and loads beyond the system boundaries (D)					
	Unit	Value			
Substitution of electricity (MJ)	MJ	0,20			
Substitution of primary steel with net scrap (kg)	kg	0,50			
Substitution of thermal energy, district heating (MJ)	MJ	3,10			

## 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 <sub>2</sub> -eq	3,80E+01	5,43E-01	4,60E-03	3,39E-02	1,15E+00	7,35E-02	-5,71E-01	
 GWP-fossil	kg CO <sub>2</sub> -eq	3,76E+01	5,42E-01	4,60E-03	3,39E-02	1,14E+00	7,34E-02	-5,70E-01	
 GWP-biogenic	kg CO <sub>2</sub> -eq	3,04E-01	2,24E-04	8,63E-07	1,40E-05	2,77E-03	8,25E-05	-3,42E-04	
 GWP-luluc	kg CO <sub>2</sub> -eq	5,47E-02	1,93E-04	3,63E-07	1,21E-05	2,96E-05	2,08E-05	-8,66E-04	
 ODP	kg CFC11 -eq	3,09E-06	1,23E-07	9,95E-10	7,68E-09	6,90E-09	3,60E-09	-1,31E-03	
 AP	mol H <sup>+</sup> -eq	3,20E-01	1,56E-03	4,81E-05	9,74E-05	3,34E-04	1,25E-04	-2,89E-03	
 EP-FreshWater	kg P -eq	5,37E-03	4,33E-06	1,68E-08	2,71E-07	1,39E-06	6,77E-07	-3,56E-05	
 EP-Marine	kg N -eq	4,58E-02	3,08E-04	2,12E-05	1,93E-05	1,35E-04	5,39E-05	-6,16E-04	
 EP-Terrestrial	mol N -eq	7,57E-01	3,45E-03	2,33E-04	2,16E-04	1,39E-03	3,78E-04	-6,33E-03	
 POCP	kg NMVOC -eq	1,55E-01	1,32E-03	6,41E-05	8,26E-05	3,45E-04	1,09E-04	-2,91E-03	
 ADP-minerals&metals <sup>1</sup>	kg Sb -eq	2,19E-02	1,50E-05	7,06E-09	9,36E-07	3,95E-07	2,60E-07	-9,70E-06	
 ADP-fossil <sup>1</sup>	MJ	5,05E+02	8,20E+00	6,33E-02	5,12E-01	4,42E-01	3,26E-01	-4,90E+00	
 WDP <sup>1</sup>	m <sup>3</sup>	1,95E+03	7,93E+00	1,35E-02	4,96E-01	1,35E+00	1,20E+00	2,54E+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







"Reading example: 9,0 E-03 = 9,0\*10<sup>-3</sup> = 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

### Additional environmental impact indicators

Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D
 PM	Disease incidence	2,48E-06	3,32E-08	1,27E-09	2,08E-09	2,23E-09	1,55E-09	-5,48E-08
 IRP <sup>2</sup>	kgBq U235 -eq	1,94E+00	3,58E-02	2,71E-04	2,24E-03	1,67E-03	1,43E-03	3,41E-04
 ETP-fw <sup>1</sup>	CTUe	2,69E+03	6,08E+00	3,46E-02	3,80E-01	2,83E+00	1,59E+00	-3,22E+01
 HTP-c <sup>1</sup>	CTUh	9,36E-08	0,00E+00	0,00E+00	0,00E+00	9,50E-11	1,20E-11	-2,68E-09
 HTP-nc <sup>1</sup>	CTUh	2,06E-06	6,64E-09	3,10E-11	4,15E-10	6,02E-09	5,89E-10	5,64E-08
 SQP <sup>1</sup>	dimensionless	2,72E+02	5,74E+00	8,04E-03	3,58E-01	1,57E-01	4,28E-01	-2,07E+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<sup>-3</sup> = 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	C1	C2	C3	C4	D	
 PERE	MJ	5,82E+01	1,17E-01	3,43E-04	7,34E-03	3,96E-02	2,08E-02	-1,96E+00	
 PERM	MJ	7,77E-02	0,00E+00	0,00E+00	0,00E+00	-7,77E-02	0,00E+00	0,00E+00	
 PERT	MJ	6,63E+01	1,17E-01	3,43E-04	7,34E-03	-3,80E-02	2,08E-02	-1,96E+00	
 PENRE	MJ	4,94E+02	8,20E+00	6,33E-02	5,12E-01	4,42E-01	3,26E-01	-4,90E+00	
 PENRM	MJ	1,26E+01	0,00E+00	0,00E+00	0,00E+00	-1,26E+01	0,00E+00	0,00E+00	
 PENRT	MJ	5,06E+02	8,20E+00	6,33E-02	5,12E-01	-1,22E+01	3,26E-01	-4,90E+00	
 SM	kg	2,23E+00	0,00E+00	3,11E-05	0,00E+00	0,00E+00	2,22E-05	0,00E+00	
 RSF	MJ	2,14E+00	4,20E-03	8,43E-06	2,62E-04	9,35E-04	4,91E-04	1,97E-02	
 NRSF	MJ	5,16E+00	1,50E-02	1,24E-04	9,38E-04	-3,88E-04	5,80E-04	4,86E-01	
 FW	m <sup>3</sup>	3,92E-01	8,77E-04	3,26E-06	5,48E-05	1,64E-03	1,23E-03	-3,07E-03	

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<sup>-3</sup> = 0,009"






\*INA Indicator Not Assessed

End of life - Waste										
Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D		
	HWD	kg	2,34E-01	4,23E-04	1,86E-06	2,64E-05	2,06E-03	1,65E-02	-2,88E-03	
	NHWD	kg	7,98E+00	3,99E-01	7,50E-05	2,49E-02	3,03E-01	8,08E-01	-2,32E-01	
	RWD	kg	1,60E-03	5,59E-05	4,40E-07	3,49E-06	1,18E-06	1,42E-06	1,77E-07	

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

\*Reading example: 9,0 E-03 =  $9,0 \cdot 10^{-3} = 0,009$

\*INA Indicator Not Assessed

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	7,51E-01	0,00E+00	3,05E-05	0,00E+00	2,20E+00	1,86E-05	0,00E+00	
	MER	kg	2,99E-02	0,00E+00	9,47E-08	0,00E+00	1,18E-01	3,97E-07	0,00E+00	
	EEE	MJ	2,21E-02	0,00E+00	3,25E-07	0,00E+00	5,54E-01	2,42E-05	0,00E+00	
	EET	MJ	3,35E-01	0,00E+00	4,91E-06	0,00E+00	8,38E+00	3,66E-04	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 =  $9,0 \cdot 10^{-3} = 0,009$

\*INA Indicator Not Assessed

Biogenic Carbon Content		
Indicator	Unit	At the factory gate
Biogenic carbon content in product	kg C	2,62E-03
Biogenic carbon content in accompanying packaging	kg C	0,00E+00

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO<sub>2</sub>

## 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 (kWh) - Germany	ecoinvent 3.6	585,93	g CO <sub>2</sub> -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

## 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 <sub>2</sub> -eq	3,80E+01	5,43E-01	4,60E-03	3,39E-02	1,14E+00	7,37E-02	-8,45E-01

GWPIOBC: 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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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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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.

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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