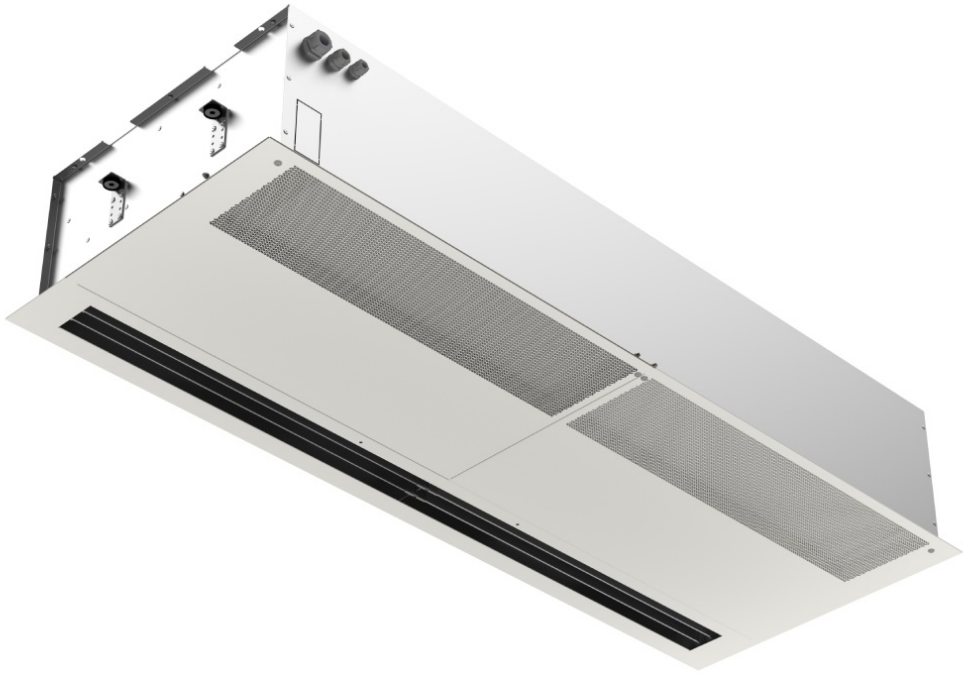
epd-global
Powered by EPD-Norway

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

FINESSE 5 EC, range B



EPD-Global

Owner of the declaration:
2VV s.r.o.

Product:
FINESSE 5 EC, range B

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-17904-22528

Issue date:
06.10.2026

Valid to:
06.10.2031

EPD software:
LCAno EPD generator ID: 1804461

General information

Product

FINESSE 5 EC, range B

Owner of the declaration:

2VV s.r.o.
Contact person: Silvia Kunáková
Phone: +420 466 741 811
e-mail: 2vv@2vv.cz

Program operator:

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

Manufacturer:

2VV s.r.o.

Declaration number:

NEPD-17904-22528

Place of production:

2VV s.r.o.
Nádražní 794
533 51 Pardubice, Czech Republic

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:

CZ62065467

Declared unit:

1 pcs FINESSE 5 EC, range B

Issue date:

06.10.2026

Declared unit with option:

A1-A3, A4, A5, B6, C1, C2, C3, C4, D

Valid to:

06.10.2031

Year of study:

2024

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: Silvia Kunáková

Reviewer of company-specific input data and EPD: Václav Král

Verification of EPD tool:

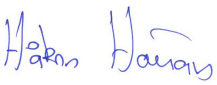
Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPD-Global's procedures and guidelines for verification and approval of EPD tools.

Third party verifier:

Alexander Borg, Asplan Viak AS

(no signature required)

Approved:



Håkon Hauan, CEO EPD-Global

Product

Product description:

FINESSE (VCFI5) Air Curtain creates an air barrier between different climate zones.
It is available with a water or electric heating coil, or as an unheated (ambient) version.

Product specification

The EPD data is provided for VCFI5B250-V2 (reference)

Materials	kg	%
Chemical	0.102	0.1347
Electronic - Printed wiring board	0.50	0.6601
Electronic - Unspecified	0.363	0.4793
Electronic - Wire	3.37	4.45
Hydronic coil (50% AL, 50%CU)	6.05	7.99
Metal - Aluminium	1.21	1.60
Metal - Brass	0.02	0.02641
Metal - Copper	0.08	0.1056
Metal - Galvanized Steel	50.16	66.22
Metal - Steel	1.27	1.68
Mineral	0.016	0.02112
Motor	11.52	15.21
Plastic - Polyamide	0.19	0.2509
Plastics	0.611	0.8067
Rubber, synthetic	0.28	0.3697
Total	75.74	100.00

Packaging	kg	%
Packaging - label, supercalendered	0.001	0.001676
Packaging - Pallet	59.41	99.56
Packaging - Paper	0.14	0.2346
Packaging - Plastic	0.12	0.2011
Total incl. packaging	135.41	100.00

Technical data:

For comprehensive technical data and energy performance assessment, please refer to the 2VV web page.
EPD data is provided for the VCFI5B250-V2EC. The Conversion factor is based on the GWPtot (A1-A3) from the size specific EPDs

Size (m)	Type	Weight Brutto (kg)	GWPtot (A1 - A3) kg CO2 eq.	Factor
1	FINESSE B EC (electric wire heater)	68,28	3.05E+02	0,57
1	FINESSE B EC (water heater)	66,67	3.29E+02	0,62
1,5	FINESSE B EC (electric wire heater)	88,47	3,41E+02	0,64
1,5	FINESSE B EC (water heater)	86,46	3,88E+02	0,73
2	FINESSE B EC (electric wire heater)	117,06	3,94E+02	0,75
2	FINESSE B EC (water heater)	115,04	4,54E+02	0,86
2,5	FINESSE B EC (electric wire heater)	136,11	4,64E+02	0,88
2,5	FINESSE B EC (water heater)	135,41	5,26E+02	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 FINESSE 5 EC, range B

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:

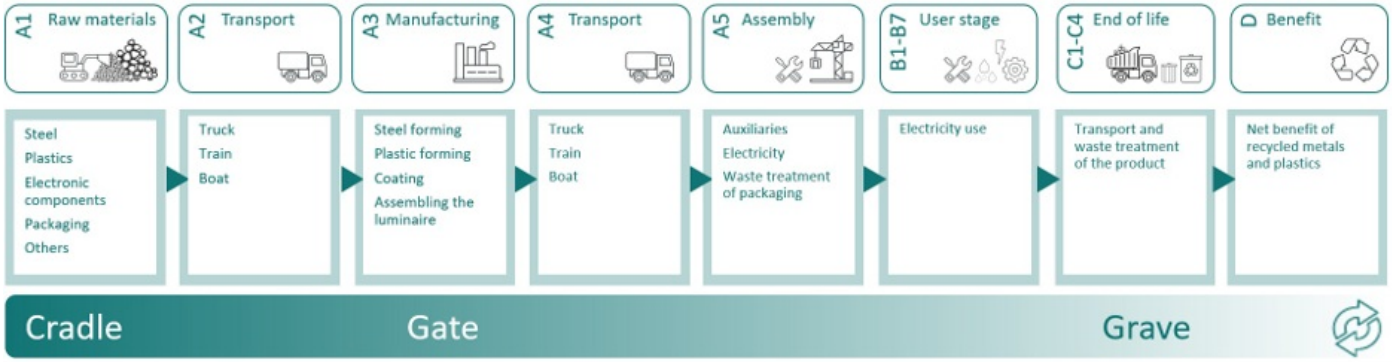
Specific data for the product composition are provided by the manufacturer. The data represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on EPDs according to EN 15804 and different LCA databases. The data quality of the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

Materials	Source	Data quality	Year
Chemical	ecoinvent 3.10.1	Database	2023
Electronic - Printed wiring board	ecoinvent 3.10.1	Database	2023
Electronic - Unspecified	ecoinvent 3.10.1	Database	2023
Electronic - Wire	ecoinvent 3.10.1	Database	2023
Electronic - Wire	Product composition + ecoinvent 3.10.1	Supplier data + database	2023
Hydronic coil (50% AL, 50%CU)	ecoinvent 3.10.1	Database	2023
Metal - Aluminium	Modified ecoinvent 3.10.1	Database	2023
Metal - Brass	ecoinvent 3.10.1	Database	2023
Metal - Copper	ecoinvent 3.10.1	Database	2023
Metal - Galvanized Steel	Modified ecoinvent 3.10.1	database	2023
Metal - Steel	ecoinvent 3.10.1	Database	2023
Mineral	ecoinvent 3.10.1	Database	2023
Motor	ecoinvent 3.10.1	Database	2023
Packaging - label, supercalendered	ecoinvent 3.10.1	Database	2023
Packaging - Pallet	ecoinvent 3.10.1	Database	2023
Packaging - Paper	ecoinvent 3.10.1	Database	2023
Packaging - Plastic	ecoinvent 3.10.1	Database	2023
Plastic - Polyamide	Modified ecoinvent 3.10.1	Database	2023
Plastics	Modified ecoinvent 3.10.1	Database	2023
Rubber, synthetic	ecoinvent 3.10.1	Database	2023

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	X	MND	MND	MND	MND	MND	X	MND	X	X	X	X	X

System boundary:



Additional technical information:

Complete technical information and documentation relating to specific projects for the selection of individual products is available online. For further information, please visit the 2vv website.
The electricity consumption of the product in module B6 is not specified in this EPD, as its operation depends purely on the individual use by the customer and cannot be generalized. We recommend determining the consumption during the project implementation according to the actual operating conditions. Please note that the product consumes and saves energy during its use. How much energy is used and saved depends not only on the product itself but also on a variety of parameters: the building in which it has been installed, any surrounding circumstances, such as temperature, wind, precipitation, and the local energy mix. In order to obtain a good estimate of the energy use in your case, please perform a Life Cycle Cost (LCC) assessment.

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)	38.8 %	300.00	0.044	l/tkm	13.20

Assembly (A5)	Unit	Value			
Waste, plastic, mixture, to average treatment - A5, inkl. transp. (kg)	kg	0.12			
Waste, cardboard and paper, to average treatment - A5, inkl. transp. (kg)	kg	0.141			
Waste, wood, average treatment - A5, inkl. transp. (kg)	kg	59.41			

Operational energy (B6)	Unit	Value			
Electricity, Europe (kWh)	kWh	0.000000001			

De-construction demolition (C1)	Unit	Value			
Demolition of building per kg of ventilation product (kg)	kg	41.50			

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)	38.8 %	50.00	0.044	l/tkm	2.20

Waste processing (C3)	Unit	Value			
Materials to recycling (kg)	kg	65.19			
Waste treatment per kg Electronics scrap, Control units, incineration (kg)	kg	0.363			
Waste treatment per kg bulk waste, excluding reinforcement, sorting plant (kg)	kg	11.52			
Waste treatment per kg Hazardous waste, incineration (kg)	kg	0.352			
Waste treatment per kg Plastics, from incineration (kg)	kg	0.095			
Waste treatment per kg Rubber, incineration (kg)	kg	0.28			
Waste treatment per kg wire plastic, municipal incineration (kg)	kg	0.7128			

Disposal (C4)	Unit	Value			
Waste, copper, to landfill (kg)	kg	0.6891			
Waste, aluminium, to landfill (kg)	kg	0.369			
Waste, steel, to landfill (kg)	kg	6.01			
Waste, brass, to landfill (kg)	kg	0.002			
Waste, inert waste, to landfill (kg)	kg	0.016			
Waste, plastic, mixture, to landfill (kg)	kg	0.8078			
Waste, hazardous waste, to landfill (kg)	kg	0.25			

Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of primary copper with net scrap (kg)	kg	4.56			
Substitution of primary aluminium with net scrap (kg)	kg	3.39			
Substitution of electricity (MJ) - updated	MJ	0.008089			
Substitution of thermal energy, district heating (MJ) - updated	MJ	0.004983			
Substitution of primary steel with net scrap (kg)	kg	33.31			
Substitution of primary Brass with net scrap (kg)	kg	0.009019			

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	A5	B6	C1	C2	C3	C4	D
	GWP-total	kg CO_2 -eq	5.27E+02	7.72E+00	9.86E+01	7.31E-10	5.99E-02	1.29E+00	3.99E+00	1.76E-01	-7.33E+01
	GWP-fossil	kg CO_2 -eq	6.08E+02	7.71E+00	1.42E+00	7.26E-10	5.98E-02	1.29E+00	3.99E+00	1.76E-01	-7.23E+01
	GWP-biogenic	kg CO_2 -eq	-8.27E+01	5.95E-03	9.72E+01	3.00E-12	1.00E-05	9.92E-04	5.72E-03	4.61E-05	-3.89E-01
	GWP-luluc	kg CO_2 -eq	9.81E-01	2.77E-03	3.99E-04	1.00E-12	6.13E-06	4.61E-04	2.89E-04	2.71E-04	-6.46E-01
	ODP	kg CFC11 -eq	1.51E-05	1.62E-07	2.42E-08	0.00E+00	9.13E-10	2.71E-08	1.36E-08	2.22E-09	-2.99E-06
	AP	mol H+ -eq	6.19E+00	1.60E-02	6.34E-03	4.00E-12	5.40E-04	2.67E-03	2.07E-03	5.56E-04	-2.76E+00
	EP-FreshWater	kg P -eq	1.09E+00	5.19E-04	1.66E-04	0.00E+00	1.73E-06	8.65E-05	3.03E-04	2.22E-05	-2.23E-01
	EP-Marine	kg N -eq	9.68E-01	3.85E-03	2.85E-03	1.00E-12	2.51E-04	6.42E-04	6.49E-04	1.86E-03	-1.60E-01
	EP-Terrestial	mol N -eq	1.44E+01	4.16E-02	2.83E-02	7.00E-12	2.74E-03	6.93E-03	6.09E-03	2.07E-03	-2.08E+00
	POCP	kg NMVOC -eq	3.03E+00	2.67E-02	9.08E-03	2.00E-12	8.18E-04	4.45E-03	2.14E-03	8.12E-04	-6.24E-01
	ADP-minerals&metals[1]	kg Sb-eq	1.02E-01	2.57E-05	3.77E-06	0.00E+00	2.15E-08	4.28E-06	3.86E-06	1.81E-07	-3.31E-02
	ADP-fossil[1]	MJ	7.49E+03	1.08E+02	1.61E+01	9.40E-09	7.83E-01	1.81E+01	6.15E+00	1.90E+00	-9.99E+02
	WDP[1]	m^3	2.57E+02	5.39E-01	7.66E-01	1.83E-10	1.96E-03	8.99E-02	1.38E+00	2.45E-02	-8.23E+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

"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

The Air Curtain uses electric energy for the fan and heating. Environmental impact varies by project, depending on factors such as climate, airflow, operating hours, and electricity source. Energy use must be assessed based on specific conditions. For details, visit 2VV website.

Additional environmental impact indicators

Indicator		Unit	A1-A3	A4	A5	B6	C1	C2	C3	C4	D
	PM	Disease incidence	5.41E-05	5.69E-07	1.12E-07	0.00E+00	1.54E-08	9.48E-08	1.92E-08	1.32E-08	-9.32E-06
	IRP[2]	kgBq U235 -eq	5.80E+01	1.40E-01	2.20E-02	9.90E-11	3.47E-04	2.33E-02	3.26E-02	3.11E-03	-1.41E+01
	ETP-fw[1]	CTUe	1.55E+04	1.44E+01	4.40E+00	1.94E-09	4.31E-02	2.40E+00	6.90E+01	2.50E+01	-3.00E+03
	HTP-c[1]	CTUh	7.10E-07	0.00E+00	4.85E-10	0.00E+00	0.00E+00	0.00E+00	1.44E-09	3.30E-10	-4.02E-07
	HTP-nc[1]	CTUh	2.62E-05	8.12E-08	4.42E-08	0.00E+00	8.30E-11	1.35E-08	1.46E-08	1.19E-08	-2.73E-05
	SQP[1]	dimensionless	1.08E+04	6.56E+01	8.79E+00	1.69E-09	5.49E-02	1.09E+01	1.82E+00	4.00E+00	-9.04E+02

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	A5	B6	C1	C2	C3	C4	D
	PERE	MJ	1.46E+03	1.90E+00	3.19E-01	1.42E-09	4.96E-03	3.16E-01	5.07E-01	2.37E-01	-3.00E+02
	PERM	MJ	8.51E+02	0.00E+00	-8.51E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	PERT	MJ	2.31E+03	1.90E+00	-8.51E+02	1.42E-09	4.96E-03	3.16E-01	5.07E-01	2.37E-01	-3.00E+02
	PENRE	MJ	7.42E+03	1.08E+02	1.61E+01	9.40E-09	7.83E-01	1.81E+01	-1.30E+01	1.90E+00	-9.99E+02
	PENRM	MJ	6.57E+01	0.00E+00	-6.12E+01	0.00E+00	0.00E+00	0.00E+00	-3.14E+01	0.00E+00	0.00E+00
	PENRT	MJ	7.49E+03	1.08E+02	-4.51E+01	9.40E-09	7.83E-01	1.81E+01	-4.44E+01	1.90E+00	-9.99E+02
	SM	kg	1.89E+01	0.00E+00	0.00E+00	1.00E-12	0.00E+00	0.00E+00	6.82E-04	0.00E+00	-3.93E+01
	RSF	MJ	2.88E+01	6.37E-04	9.32E-05	0.00E+00	8.50E-07	1.06E-04	1.82E-04	4.56E-05	-1.37E-02
	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.51E-04
	FW	m^3	5.97E+00	1.48E-02	6.32E-03	5.00E-12	5.17E-05	2.46E-03	3.19E-02	1.49E-03	-2.27E+00

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	A5	B6	C1	C2	C3	C4	D
	HWD	kg	1.21E+02	1.58E-01	2.18E-02	6.30E-11	8.71E-04	2.63E-02	6.50E-01	9.41E-01	-3.09E+01
	NHWD	kg	2.28E+03	3.33E+00	2.16E+01	1.59E-09	1.19E-02	5.55E-01	1.37E+01	7.20E+00	-8.65E+02
	RWD	kg	6.93E-02	3.48E-05	4.37E-06	0.00E+00	8.51E-08	5.80E-06	1.57E-06	0.00E+00	-3.68E-03

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	A5	B6	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	0.00E+00	0.00E+00
	MFR	kg	9.08E+00	0.00E+00	3.85E+01	1.00E-12	0.00E+00	0.00E+00	6.52E+01	0.00E+00	0.00E+00
	MER	kg	0.00E+00	0.00E+00	1.50E-09	0.00E+00	0.00E+00	0.00E+00	1.94E-09	0.00E+00	0.00E+00
	EEE	MJ	5.68E-04	0.00E+00	7.66E-04	9.00E-12	0.00E+00	0.00E+00	7.99E-03	3.77E-03	0.00E+00
	EET	MJ	6.69E-04	0.00E+00	1.99E-03	1.00E-12	0.00E+00	0.00E+00	3.00E-03	1.08E-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"

Biogenic Carbon Content

Indicator	Unit	At the factory gate
Biogenic carbon content in product	kg C	4.88E-05
Biogenic carbon content in accompanying packaging	kg C	2.65E+01

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, Czech Republic (kWh)	ecoinvent 3.10.1	642.66	g CO2-eq/kWh

Dangerous substances

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

Indoor environment

Not relevant. No specific indoor environment classification has been determined for the product.

Additional Environmental Information

Additional environmental impact indicators required in NPCR Part A for construction products										
Indicator	**Unit**	A1-A3	A4	A5	B6	C1	C2	C3	C4	D
GWPIOBC	kg CO_2 -eq	9.12E+03	7.72E+00	1.43E+00	7.29E-10	5.99E-02	1.29E+00	3.99E+00	1.76E-01	-7.31E+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.

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