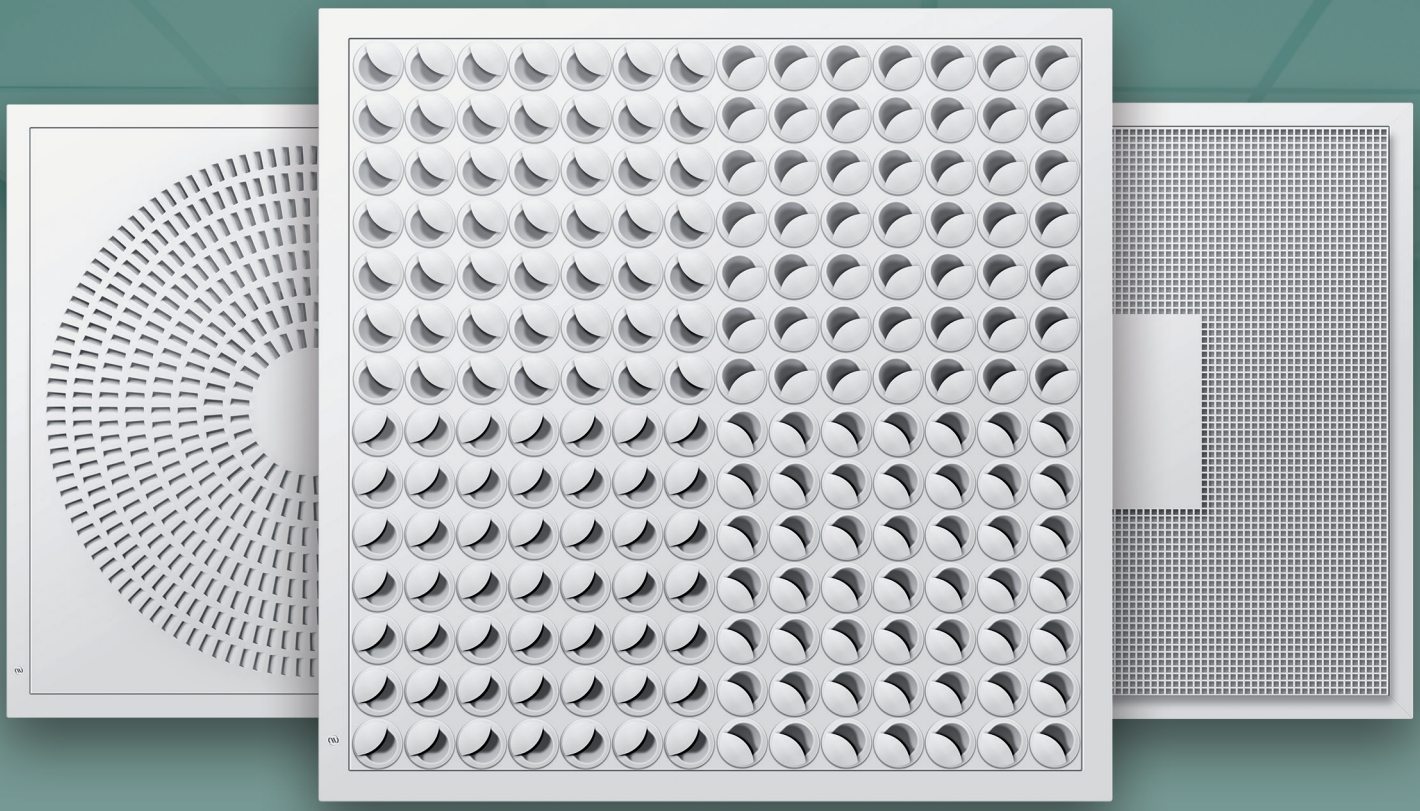
CEILING DIFFUSERS

AIRVENT



Environmental Product Declaration

In accordance with ISO14025:2006 and EN15804:2012+A2:2019

Owner of the declaration
Airvent Légtechnikai Zrt.

Product name
Ceiling Diffusers

Declared unit
1 pc

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

Program holder and publisher
The Norwegian EPD foundation

Declaration number
NEPD-8640-8306-EN

Registration Number
NEPD-8640-8306-EN

Issue date
03.01.2025

Valid to
03.01.2030

The Norwegian EPD Foundation

epd-norway
Global Program Operator

Contents

General information

Product
Ceiling diffusers (represented by DRTI-160)

Program holder
The Norwegian EPD Foundation
Post Box 5250 Majorstuen, 0303 Oslo, Norway
Phone: +47 23 08 80 00
E-mail: post@epd-norge.no

Declaration Number
NEPD-8640-8306-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

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

Declared unit
1 pc DRTI-160

Declared unit with option
A1-A3, A4, A5, C1, C2, C3, C4, D

Functional unit
Not relevant. Use phase not included.

Verification
Independent verification of the declaration and data, according to ISO14025:2010

☐ Internal ☒ External

Owner of the declaration
Airvent Légtechnikai Zrt
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e-mail: avkecskemet@airvent.hu

Manufacturer
Airvent Légtechnikai Zrt
6000 Kecskemét, Belsőnyír 150, Hungary
E-mail: avkecskemet@airvent.hu
Phone: +36 30 395 3011

Place of production
Airvent Légtechnikai Zrt
6000 Kecskemét, Belsőnyír 150, Hungary

Management system
ISO 9001, ISO 14001 and ISO 50001

Issue date
03.01.2025

Valid to
03.01.2030

Year of study
2023-2024

Comparability
EPD of construction products may not be able to compare if they do not comply with EN 15804 and are seen in a building context.

The EPD has been worked out by
Kaspars Zudrags, BM Certification SIA

Silvia Vilčeková, SILCERT Ltd
Independent verifier approved by EPD Norway

Approved

Manager of EPD Norway

Manufacturer – Airvent

We develop and manufacture technically advanced products for ventilation and air handling systems, prioritizing air quality, performance, and sustainable engineering

40

40 years of experience in the field of ventilation.

Expertise in well-designed, streamlined ventilation products and solutions, offering high performance, functionality and build quality.

In our 12,000 sqm production facility, we manufacture over 500,000 products on an annual basis.

We are committed to develop innovative solutions that are energy-efficient, healthy, and environmentally friendly.

Towards a greener future

Since 2004, Airvent Zrt. has operated a certified ISO 14001 *Environmental Management System*, with sustainability and environmental protection being key considerations in our developments. As a responsible company, energy-efficient system solutions have always been a top priority in our expansions. In line with this approach, we equipped our new *Competence Center* building in 2022 with a 50 kWp solar power system, and by the end of 2024, we will install an additional 100 kWp solar system on the roofs of our production halls. With this development, we will generate 22% of our electricity needs in-house. We also monitor our electricity consumption online with 25 sub-meters, allowing us to immediately address any wastage and ensure that our energy usage is always as optimal as possible.

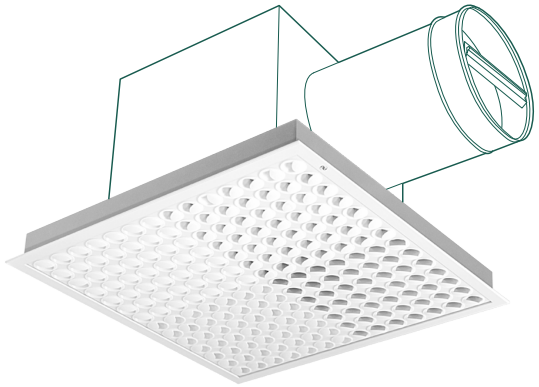
Our efforts

We extend our environmentally friendly efforts to product delivery as well. We send over a hundred trucks annually to our affiliate in Sweden. Previously, these trucks drove across Europe, but we now use intermodal transport, with 75 percent of the journey being made by rail.

One of the focuses of our product development is to increase the use of sustainable materials in our products and processes while minimizing environmental impact, all the while ensuring we deliver flawless products to our customers with consistent quality. By transitioning to a new insulating material made from recycled materials in production, we are able to meet all three of these criteria

Product – Airvent ceiling diffusers

DRTI
Ceiling diffusers



Product description
Our ceiling diffusers are primarily manufactured from galvanized steel and are available in various sizes and forms, tailored to different applications. The production methods and materials across these diffusers are largely consistent. This EPD provides an average environmental performance for our product range, as outlined below in the table *Included products and multiplication factors*.

The LCA analysis is based on a specific dataset for a representative product, DRTI-160. This product was selected based on its weighted average sales in 2023 and reflects typical material composition and production impacts. To investigate potential variations in results, a worst case product containing aluminum, DRTI-250, was also modeled and analyzed. The LCA analysis indicates that the environmental impact between them varies by less than 10%. Therefore, the DRTI-160 provides a representative assessment of the environmental performance for the entire ceiling diffuser product family.

Product specification

Materials	kg	%
Steel	3.46	94.8
Polypropylene	0.19	5.2
TOTAL	**3.65**	
Packaging – corrugated board	0.62	

Description and function
The DRT/DRTI is a ceiling-mounted supply air diffuser featuring rotatable nozzles designed for comfort ventilation in various settings, including offices, schools, retail stores, restaurants, and hospitals. The simple rotation of the aerodynamically shaped nozzles allows for flexible airflow patterns, ranging from horizontal, swirl, uni- or bidirectional, to vertical modes. Unless otherwise specified, the diffuser is delivered with nozzles positioned in a rotating pattern. The diffuser operates at low noise levels, ensuring a draught-free and comfortable indoor environment. The difference between the DRT and DRTI is that the outer dimensions of the DRT type vary with connection sizes, while the DRTI maintains a consistent external dimension of 595x595 mm across all sizes.

Airflow range
50 - 600 m^3/h (14-160 l/s). The performance data of the DRT and DRTI are identical, differing only in their dimensions.

Applications
The DRT/DRTI diffuser is ideal for ventilating comfort rooms where draught-free operation at low noise levels is important, such as offices, schools, retail stores, hospitals, and restaurants. The recommended maximum temperature difference (Δt) between the room and the supplied air is -12°C.

Standard sizes
- DRT: 125, 160, 200 (dimensions vary with connection sizes)
- DRTI: 125, 160, 200, 250, 315, 400 (consistent external dimension of 595x595 mm across all sizes)

Market
Europe

Reference service life
>25 years

LCA: Calculation rules

Declared units

One ceiling diffuser - DRTI-160 (mass 3.65 kg)

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

Allocation is done following EN 15804+A2:2019 guidelines, with incoming energy, water, and waste generated on-site being evenly distributed among all products through mass allocation. The environmental impacts of producing recycled materials are attributed to the primary product in which they are utilized. Additionally, the recycling process and transportation of materials are taken into account in this analysis.

Data quality

Specific data for the product composition are provided by Airvent Légtechnikai Zrt. They represent the production of the declared product and were collected for EPD development to year 2023. 06. 01. - 2024. 06. 01.

Materials	Source	Data quality	Year
Metals	ecoinvent 3.10	Database	2024
Aluminum	ecoinvent 3.10	Database	2024
Polypropylene	ecoinvent 3.10	Database	2024
Corrugated board	ecoinvent 3.10	Database	2024

System boundary

Cradle to gate with options, modules C1–C4, module D (A1–A3 + A4 + A5 + C + D).

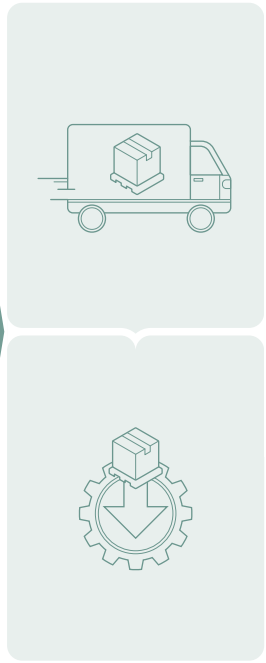
A1-A3

Product stage

A1 Production of input materials for the product
A2 Transport of raw materials
A3 Manufacturing of the product

A4–A5

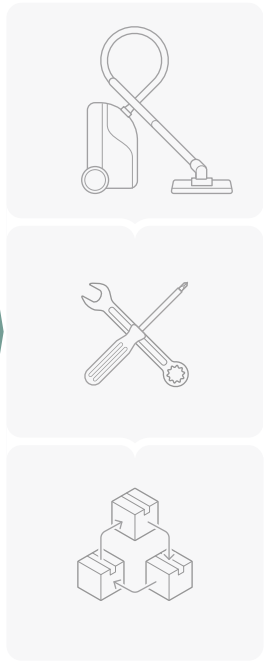
Construction stage



A4 Transport to market
A5 Installation

B1–B7

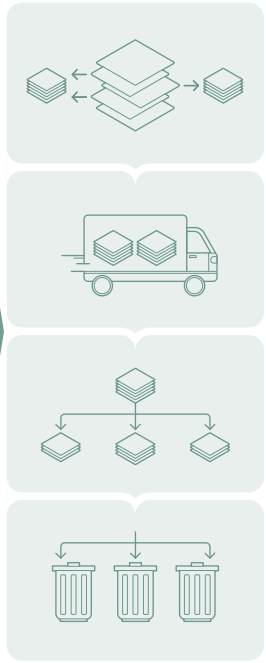
Use stage



B2 Maintenance
B3 Repair
B4 Replacement

C1–C4

End of life



C1 Deconstruction/demolition
C2 Transport to waste processing
C3 Waste processing
C4 Disposal

D

Beyond system boundaries

D Environmental impact of outgoing streams

LCA: Scenarios and additional technical information

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

Energy sources of the electricity used in manufacturing processes of module A3 are modelled using the mix of electricity, the average 0,4276kg CO2 eq./kWh. A4: Transport scenarios include EURO 6 truck transport for 307km, sea ferry 158km, train 747km. A5. The energy consumption of A5 and C1 model is considered negligible and module A5 includes only packaging utilization. C1: No loads in C1 have been generated as manual dismantling. C2: Transport to waste treatment site after dismantling using EURO 6 truck average (100 km assumed). C3: Assumed as 90% of ceiling diffuser is recycling. C4: Assumed as 10% of ceiling diffuser materials are goes to the landfill. D: Modelled as 90% of ceiling diffuser is recycling.

Transport from production place to assembly/user (A4)

Type	Capacity utilisation (incl. return) [%]	Type of vehicle	Distance KM	Fuel/Energy consumption	Value [l/t]
Truck	36.7	lorry 16-32 metric ton, EURO6	307	0.043	13.20
Railway	50	rail	747	0.002	1.49
Boat	50	ship	158	0.030	4.74

Assembly (A5)

	Unit	Value
Packaging cardboard, recycled – 89%	kg	0.55
Packaging cardboard, landfild – 5.5%	m^3	0.03
Packaging cardboard, incertation – 5.5%	kWh	0.03

End of Life (C1, C3, C4)

	Unit	Value
Treatment of waste reinforcement steel, recycling	kg	3.69
Treatment of waste plastic, municipal incineration	kg	0.19
Treatment of scrap steel, landfill	kg	0.37

Transport to waste processing (C2)

Type	Capacity utilisation (incl. return) [%]	Type of vehicle	Distance KM	Fuel/Energy consumption	Value [l/t]
Truck	36.7	lorry 16-32 metric ton, EURO5	100	0.043	13.20

Benefits and loads beyond the system boundaries (D)

	Unit	Value
Substitution of steel production	kg	3.32
Substitution of paper production	kg	0.55
Substitution of heat production	MJ	4.83
Substitution of thermal energy production	MJ	0.89

LCA: Results

System boundaries

X=included, MID=module not declared, MIR=module not relevant

Product stage			Assembly stage		Use stage							End of life stage				Beyond 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	MID	MID	MID	MID	MID	MID	MID	X	X	X	X	X

Core environmental impact indicators

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO_2 -eq.	1,83E+01	5,04E-01	1,02E-01	0,00E+00	4,59E-02	6,88E-01	1,95E-03	-5,55E+00
GWP-fossil	kg CO_2 -eq.	1,89E+01	5,04E-01	1,62E-02	0,00E+00	4,58E-02	6,88E-01	1,94E-03	-5,39E+00
GWP-biogenic	kg CO_2 -eq.	-6,86E-01	1,09E-04	6,86E-01	0,00E+00	7,31E-06	4,46E-05	1,27E-06	-1,83E-01
GWP-luIAC	kg CO_2 -eq.	3,87E-02	2,58E-04	9,83E-06	0,00E+00	1,84E-05	2,31E-05	1,83E-06	4,29E-03
ODP	kg CFC11-eq.	7,23E-07	8,15E-09	4,37E-10	0,00E+00	6,75E-10	3,71E-09	7,86E-10	-5,64E-08
AP	mol H^+ eq.	1,54E-01	4,44E-03	6,72E-05	0,00E+00	1,56E-04	2,19E-03	1,83E-05	-2,40E-02
EP-freshwater	kg P eq.	9,24E-04	5,77E-06	4,38E-07	0,00E+00	4,19E-07	9,40E-07	2,04E-08	-2,77E-04
EP-marine	kg N eq.	1,98E-02	1,32E-03	5,85E-05	0,00E+00	5,07E-05	1,02E-03	6,33E-06	-4,84E-03
EP-terrestrial	mol N eq.	4,92E-01	1,46E-02	1,78E-04	0,00E+00	5,59E-04	1,11E-02	6,96E-05	-5,69E-02
POCP	kg NMVOC eq.	6,33E-02	4,55E-03	6,70E-05	0,00E+00	2,30E-04	3,29E-03	2,02E-05	-1,89E-02
ADP-minerals&metals*	kg Sb eq.	3.41E-04	1.35E-06	1.99E-07	0.00E+00	1.28E-07	1.16E-07	4.46E-09	-5.51E-05
ADP-fossil*	MJ	2.56E+02	6.69E+00	1.14E-01	0.00E+00	6.65E-01	3.12E+00	5.33E-02	-5.59E+01
WDP*	m^3	7.87E+00	4.20E-02	5.63E-03	0.00E+00	3.19E-03	3.75E-02	1.69E-04	-1.02E+00

GWP-total: Global Warming Potential; 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; See "additional requirements" for indicator given as PO4 eq. EP-marine: Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-terrestial: Eutrophication potential, Accumulated Exceedance; POCP: Formation potential of tropospheric ozone; ADP-M&M: Abiotic depletion potential for non-fossil resources (minerals and metals); ADP-fossil: Abiotic depletion potential for fossil resources; WDP: Water deprivation potential, deprivation weighted water counsumption

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

Resource use

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
RPEE	MJ	2,19E+01	1,68E-01	-1,20E+00	0,00E+00	8,72E-03	2,21E-02	4,63E-04	-1,23E+01
RPEM	MJ	8,24E+00	0,00E+00	-8,24E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,10E-01
TPE	MJ	3,01E+01	1,68E-01	-9,44E+00	0,00E+00	8,72E-03	2,21E-02	4,63E-04	-1,24E+01
NRPE	MJ	2,51E+02	6,69E+00	1,13E-01	0,00E+00	6,65E-01	-3,86E+00	5,33E-02	-6,30E+01
NRPM	MJ	6,32E+00	0,00E+00	-2,60E-02	0,00E+00	0,00E+00	-6,29E+00	0,00E+00	7,08E+00
TRPE	MJ	2,57E+02	6,69E+00	8,70E-02	0,00E+00	6,65E-01	-1,02E+01	5,33E-02	-5,59E+01
SM	kg	1,77E+00	5,06E-03	3,04E-04	0,00E+00	2,83E-04	1,34E-03	1,12E-05	3,50E+00
RSF	MJ	6,51E-02	3,25E-05	1,50E-06	0,00E+00	3,59E-06	5,94E-06	2,92E-07	-5,67E-04
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
W	m^3	1,76E-01	1,08E-03	-8,50E-06	0,00E+00	9,62E-05	7,12E-04	5,83E-05	-1,61E-02

RPEE Renewable primary energy resources used as energy carrier; RPEM Renewable primary energy resources used as raw materials; TPE Total use of renewable primary energy resources; NRPE Non renewable primary energy resources used as energy carrier; NRPM Non renewable primary energy resources used as materials; TRPE 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; W Use of net fresh water

End of life – Waste

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HW	kg	5,17E+00	1,68E-02	2,08E-03	0,00E+00	1,13E-03	1,13E-02	0,00E+00	-1,83E+00
NHW	kg	4,56E+01	3,05E-01	2,41E-01	0,00E+00	2,10E-02	2,59E-01	3,69E-01	-1,58E+01
RW	kg	7,63E-04	2,89E-06	4,55E-07	0,00E+00	1,44E-07	3,74E-07	0,00E+00	4,34E-06

HW Hazardous waste disposed; NHW Non hazardous waste disposed; RW Radioactive waste disposed

End of life – output flow

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
CR	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
MR	kg	0,00E+00	0,00E+00	5,52E-01	0,00E+00	0,00E+00	3,32E+00	0,00E+00	0,00E+00
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,92E-01	0,00E+00	0,00E+00
EEE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,90E-01	0,00E+00	0,00E+00
ETE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,83E+00	0,00E+00	0,00E+00

CR Components for reuse; MR Materials for recycling; MER Materials for energy recovery; EEE Exported electric energy; ETE Exported thermal energy

Information describing the biogenic carbon content at the factory gate

Biogenic carbon content	Unit	Value
Biogenic carbon content in product	kg C	0
Biogenic carbon content in the accompanying packaging	kg C	0,25

Additional requirements

Greenhous gas emission from the use of electricity in the manufacturing phase

National production mix from import, low woltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing prosess (A3).

Electricity mix	Data source	Amount	Unit
Electricity production, hard coal	ecoinvent 3.10	1.1	g CO_2 eq./kWh
Electricity production, nuclear, pressure water reactor	ecoinvent 3.10	0.0071	g CO_2 eq./kWh
Electricity production, photovoltaic	ecoinvent 3.10	0.0833	g CO_2 eq./kWh
Electricity production, hydro, run-of-river	ecoinvent 3.10	0.0044	g CO_2 eq./kWh

Additional environmental impact indicators required in NPCR Part A for construction products

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 instantanious oxidation. GWP-IOBC is also reffered to as GWP-GHG in context to Swedish public procurement legislation.

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-IOBC	kg CO2 eq.	1.89E+01	5.04E-01	1.62E-02	0.00E+00	4.58E-02	6.88E-01	1.94E-03	-5.39E+00

GWP-IOBC Global warming potential calculated according to the principle of instantanious oxidation.

Dangerous substances

The product contains no substances given by the REACH Candidate list or the Norwegian priority list

Indoor environment

The product meets the requirements for low emissions.

Included products and multiplication factors

The multiplication factors in the table below can be used to scale LCA data for another product or size.

Name	*Factor*
DCR	
DCR-125	0,71
DCR-160	0,88
DCR-200	1,29
DCR-250	1,92
DCR-315	2,36
DRT	
DRT-125	0,52
DRT-160	0,52
DRT-200	0,71
DRTI	
DRTI-125	1,00
DRTI-160	1,00
DRTI-200	1,10
DRTI-250	1,23
DRTI-315	1,18
DRTI-400	1,15
DRTX	
DRTX-400	0,25
DRTX-500	0,39
DRTX-595	0,51
DXR	
DXR-100	0,93
DXR-125	1,37
DXR-160	1,92
DXR-200	3,18
DXR-250	4,22
DXR-315	5,56
DXR-400	7,81
E5O	
E5O-100	0,05
E5O-125	0,08
E5O-160	0,11
E5O-200	0,14
E5O-250	0,16
E5O-315	0,22
E5O-400	0,33
E5O-500	0,47
E5O-630	0,77
IRB	
IRB-250	1,37
IRB-315	1,86
IRB-400	2,68
IRB-500	3,84

Name	*Factor*
MHO	
MHO-1200	10,38
MHO-1800	15,37
MHO-2400	20,75
MHO-3000	24,89
MHOS	
MHOS-1200	10,38
MHOS-1800	15,37
MHOS-2400	20,75
MHOS-3000	24,89
NAPT	
NAPT-100	0,22
NAPT-125	0,22
NAPT-160	0,33
NAPT-200	0,49
NAPT-250	0,60
NAPT-315	0,82
NAPT-400	1,10
NHL	
NHL-160	0,33
NHL-200	0,33
NHL-250	0,47
NHLB	
NHLB-125	1,32
NHLB-160	1,32
NHLB-200	1,32
NHLB-250	1,75
NLUN	
NLUN-600-600	2,74
NPL	
NPL-160	0,74
NPL-200	1,04
NPL-250	1,51
NPR	
NPR-160	1,07
NPR-200	1,07
NPR-250	1,07
NRA	
NRA-200	0,73
NRA-250	1,00
NRA-315	1,46
NRA-400	2,33
NXF	
NXF-160	1,42
NXF-200	1,42
NXF-250	1,86

Name	*Factor*
NXT	
NXT-160	1,42
NXT-200	1,42
NXT-250	1,86
PET	
PET-125	0,41
PET-160	0,63
PET-200	0,96
PETI	
PETI-125	0,82
PETI-160	1,04
PETI-200	1,07
PETI-250	1,15
PETI-315	1,12
PETI-400	1,07
PLI	
PLI-160	0,74
PLI-200	1,04
PLI-250	1,51
PRC	
PRC-125	1,23
PRC-160	1,23
PRC-200	1,37
PRCI	
PRCI-125	1,23
PRCI-160	1,23
PRCI-200	1,37
PRCI-250	1,53
PRCI-315	1,53
PRCI-400	1,53
PRCX	
PRCX-400	0,38
PRCX-500	0,69
PRCX-595	0,80
PRN	
PRNX-400	0,29
PRNX-500	0,44
PRNX-595	0,61
PRQX	
PRQX-400	0,28
PRQX-500	0,44
PRQX-595	0,61
PU	
PU-200	0,93
PU-250	1,41
PU-315	1,77

Name	*Factor*
RASTER	
RASTER	0,34
RBF	
RBF-1-1000	0,28
RBF-1-1250	0,35
RBF-1-1500	0,41
RBF-1-2000	0,55
RBF-1-500	0,15
RBF-2-1000	0,44
RBF-2-1250	0,55
RBF-2-1500	0,65
RBF-2-2000	0,86
RBF-2-500	0,23
S2D	
S2D-100	0,41
S2D-125	0,41
S2D-160	0,80
S2V	
S2V-100	0,49
S2V-125	0,51
S2V-160	0,95
SKV	
SKV-100	0,32
SKV-125	0,41
SKV-160	0,64
STD	
STD-125	0,32
STD-160	0,32
STD-200	0,32
STD-250	0,32
STD-315	0,32
TSK	
TSK-100	0,12
TSK-125	0,18
TSK-160	0,25
TSK-200	0,41
TSK-250	0,58
TSP/TSPE	
TSP/TSPE-100	0,11
TSP/TSPE-125	0,16
TSP/TSPE-160	0,25
TSP/TSPE-200	0,38
TSP/TSPE-250	0,55
VTD-S	
VTD-S-100	0,08
VTD-S-125	0,10
VTD-S-160	0,14

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