ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

Finncont Icon

Finncont Oy

EPD HUB, HUB-4104
Published on 07.10.2025, last updated on 07.10.2025, valid until 06.10.2030

Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804, EPD Hub PCR version 1.2 (24 Mar 2025) and JRC characterization factors EF 3.1.

Created with One Click LCA

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Finncont Oy
Address	Kiertotie 10-12, 34800 Virrat, Finland
Contact details	finncont@finncont.com
Website	www.finncont.com

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804:2012+A2:2019/AC:2021 and ISO 14025
PCR	EPD Hub Core PCR Version 1.2, 24 Mar 2025
Sector	Construction product
Category of EPD	Third party verified EPD
Parent EPD number	-
Scope of the EPD	Cradle to gate with options, A4-A5, B2, B4, and modules C1-C4, D
EPD author	Akseli Romppainen, LCA Point
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	Sarah Curpen, as an authorised verifier acting for EPD Hub Limited

This EPD is intended for business-to-business and/or business-to-consumer communication. The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

PRODUCT

Product name	Finncont Icon 5 m^3
Additional labels	5000-5000; 5000-3000; 5000-2500; 3000-3000; 3000-2000; 3000-1300; 1300-1300; 1300-800; 1300-600
Place(s) of raw material origin	FI, CN
Place of production	Finland
Place(s) of installation and use	FI, SE
Period for data	Calendar year 2024
Averaging in EPD	-
Variation in GWP-fossil for A1-A3 (Min/Max)	-
GTIN (Global Trade Item Number)	-
NOBB (Norwegian Building Product Database)	-
A1-A3 Specific data (%)	9,33

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 Unit of Finncont Icon waste container
Declared unit mass	193,143 kg
GWP-fossil, A1-A3 ($kgCO_2e$)	6,82E+02
GWP-total, A1-A3 ($kgCO_2e$)	6,42E+02
Secondary material, inputs (%)	74,6
Secondary material, outputs (%)	34
Total energy use, A1-A3 (kWh)	2030
Net freshwater use, A1-A3 (m^3)	6,78

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

With decades of experience, Finncont® offers the most advanced recycling systems on the market, combining efficiency, safety, and style. Our recycling systems are innovations from Finncont Design Studio® and are manufactured in Virrat, Finland. We continuously develop our products by listening to our customers and prioritizing environmental responsibility.

PRODUCT DESCRIPTION

The Finncont® Icon waste collection system is a stylish and safe choice, proven to work in practice. When you need a high-capacity waste collection solution, Icon containers are the perfect choice. Available in both above-ground and underground models, Icon provides a solution for all needs and locations.

Icon waste containers are available in various sizes depending on their purpose, resulting in varying proposition of raw materials in product. Impact indicators for other products can be calculated by multiplying the EPD results by the respective scaling factor for the products covered by this EPD.

A table listing the available products and their corresponding scaling factors is provided in Annex I of this report.

Further information can be found at:
www.finncont.com

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	15	FI, CN
Minerals	-	-
Fossil materials	85	FI
Bio-based materials	-	-

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	-
Biogenic carbon content in packaging, kg C	11,31

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 Unit of Finncont Icon 5000-5000 waste container
Mass per declared unit	193,143 kg
Functional unit	1 Unit of Finncont Icon 5000-5000 waste container
Reference service life	50 years for container, 15 years for filling bag

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Product stage			Assembly stage		Use stage							End of life stage				Beyond the system boundaries		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D		
x	x	x	x	x	MND	x	MND	x	MND	MND	MND	x	x	x	x	x		
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/ demolition	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling

Modules not declared = MND. Modules not relevant = MNR

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

A market-based approach is used in modelling the electricity mix utilized in the factory.

For the raw materials, EPDs are utilized as background data where available. Raw material transportation is mainly carried out by trucks with a capacity >32 tons, though some materials are also transported via ship. The electricity used in the production process is derived from certified (GoO) CO2-free nuclear and hydropower energy. In the modeling for the environmental impact assessment, a balanced 50/50 distribution between these two energy sources is assumed to accurately represent their respective contributions.

Waste generated during production primarily originates from incoming packaging materials, including carton, wood, and mixed waste, and is calculated as production loss. This waste is directed toward further recycling and incineration for energy recovery. Reject material from lid production is recycled as new raw material for production, replacing virgin raw materials. The product is packed on wooden pallets, and plastic films are used to cover the product during transportation.

The use of green energy in manufacturing is demonstrated through contractual instruments (GOs, RECs), and its use is ensured throughout the validity period of this EPD.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

The Icon waste collection systems are utilized in Finland and Sweden, with an approximate 50/50 share of the total transported volumes. Consequently, the transportation emissions for module A4 are distributed between these two market areas accordingly.

The product is delivered whole and installed using a HIAB-type truck. The installation is assumed to last a maximum of one hour, and the diesel consumed during this operation has been accounted for in the modelling.

PRODUCT USE AND MAINTENANCE (B1-B7)

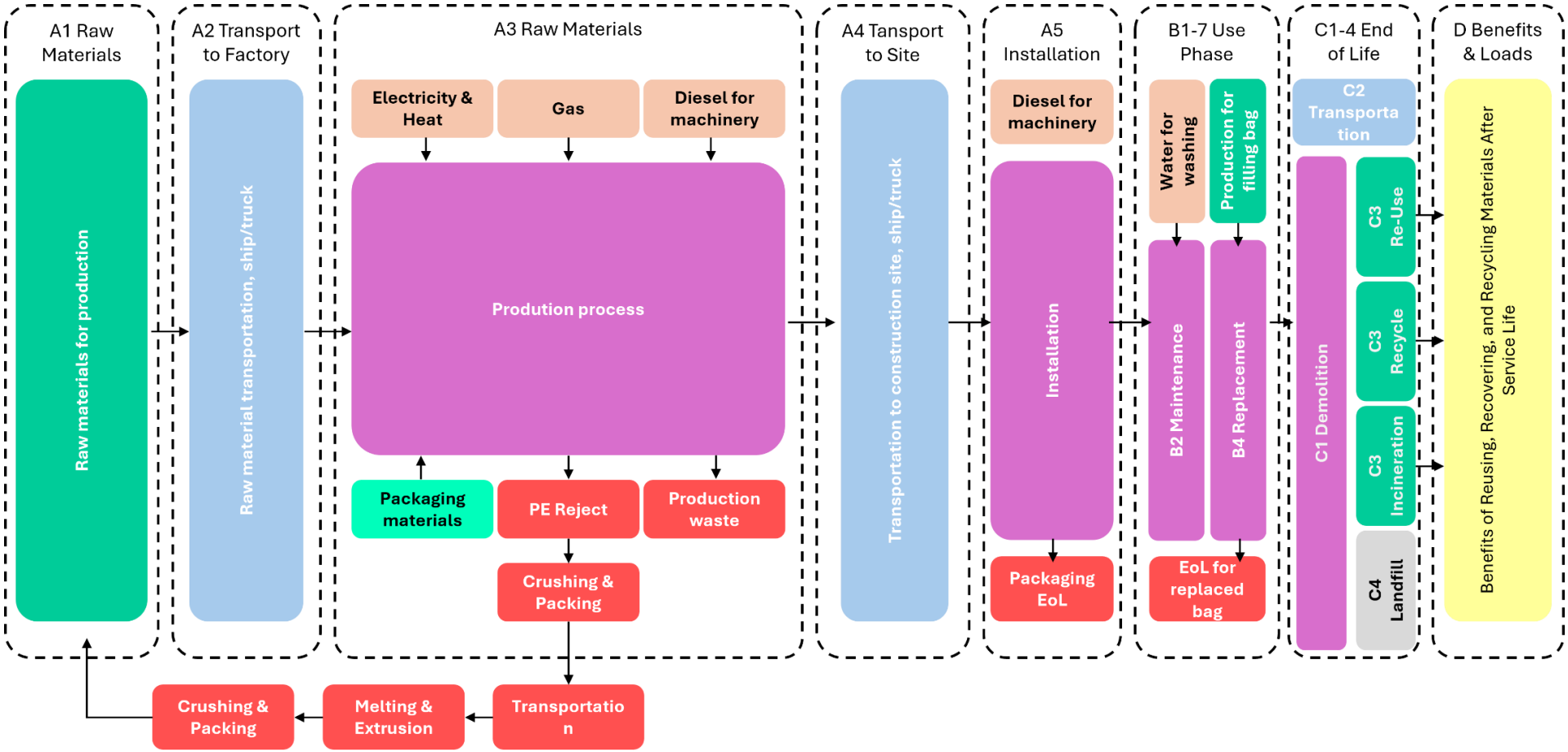
The use stage includes emissions generated during the operation of waste containers, including washing and the production of new lifting bags, with an estimated reference service life of 15 years. The end-of-life (EoL) treatment of replaced parts is also included in module B4.
Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

In the End-of-Life (EoL) phase, the disassembled waste container's separately sorted materials consist of steel (95 % recycling, 5 % landfill), concrete (70 % recycling, 30 % landfilling), aluminum (90 % recycling, 10 % landfill), and plastic (50 % incineration, 23 % recycling, 27 % landfill). Conservative EU-wide scenarios are applied for EoL treatment, referencing sources such as Plastics Europe (2020), World Steel Association (2022), Eurostat (2020), and RC Technical Report (2018) being 34,541+. Transportation distance is assumed to be 50-250 km.

For Module D - benefits and loads, EU-scale scenarios are used to calculate credits accordingly.

MANUFACTURING PROCESS



LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

The production of capital equipment, construction activities, and infrastructure, maintenance and operation of capital equipment, personnel-related activities, energy and water use related to company management and sales activities are excluded.

VALIDATION OF DATA

Data collection for production, transport, and packaging was conducted using time and site-specific information, as defined in the general information section on page 1 and 2. Upstream process calculations rely on generic data as defined in the Bibliography section. Manufacturer-provided specific and generic data were used for the product's manufacturing stage. The analysis was performed in One Click LCA EPD Generator, with the 'Cut-Off, EN 15804+A2' allocation method, and characterization factors according to EN 15804:2012+A2:2019/AC:2021 and JRC EF 3.1.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	Allocation
Raw materials	No allocation
Packaging material	Not applicable
Ancillary materials	Allocated by mass or volume
Manufacturing energy and waste	Allocated by mass or volume

PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	No grouping
Grouping method	-
Variation in GWP-fossil for A1-A3 (Min/Max)	-

Module waste containers are manufactured with various dimensions with different proportions of raw materials. To ensure representativeness, all possible size options were evaluated, and the 5 m^3 container was selected as the baseline scenario, as it represents the most typical assembly configuration. The lifecycle emissions of other configurations are presented with their respective scaling factors in **Annex I.**

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1 environmental data sources follow the methodology 'allocation, Cut-off, EN 15804+A2'.

ENVIRONMENTAL IMPACT DATA

The estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks.

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total[1)]	kg CO_2e	6,20E+02	5,29E+00	1,70E+01	6,42E+02	1,08E+01	5,81E+01	MND	1,44E+00	MND	1,07E+02	MND	MND	MND	0,00E+00	3,55E+00	2,55E+02	5,37E+00	-4,04E+02
GWP – fossil	kg CO_2e	6,18E+02	5,29E+00	5,84E+01	6,82E+02	1,08E+01	1,66E+01	MND	1,43E+00	MND	1,07E+02	MND	MND	MND	0,00E+00	3,55E+00	2,55E+02	5,37E+00	-4,05E+02
GWP – biogenic	kg CO_2e	3,86E-01	0,00E+00	-4,15E+01	-4,11E+01	0,00E+00	4,15E+01	MND	0,00E+00	MND	0,00E+00	MND	MND	MND	0,00E+00	8,00E-04	-6,13E-03	-2,93E-03	4,54E+00
GWP – LULUC	kg CO_2e	1,28E+00	2,19E-03	4,59E-02	1,33E+00	4,11E-03	2,77E-03	MND	2,46E-03	MND	4,27E-02	MND	MND	MND	0,00E+00	1,59E-03	5,09E-03	3,89E-04	-3,21E+00
Ozone depletion pot.	kg $CFC\text{-}_{11}$e	1,16E-05	9,49E-08	3,04E-06	1,48E-05	2,16E-07	2,35E-07	MND	1,94E-08	MND	2,45E-07	MND	MND	MND	0,00E+00	5,20E-08	5,89E-08	1,38E-08	-6,58E-06
Acidification potential	mol H^+e	3,29E+00	3,18E-02	3,70E-01	3,69E+00	4,26E-02	1,35E-01	MND	8,34E-03	MND	2,17E-01	MND	MND	MND	0,00E+00	1,21E-02	4,92E-02	3,82E-03	-2,41E+00
EP-freshwater[2)]	kg Pe	2,26E-01	3,53E-04	7,40E-03	2,34E-01	7,19E-04	6,44E-04	MND	3,69E-03	MND	1,16E-02	MND	MND	MND	0,00E+00	2,76E-04	1,38E-03	5,97E-05	-1,44E-01
EP-marine	kg Ne	5,84E-01	9,27E-03	7,43E-02	6,68E-01	1,37E-02	6,55E-02	MND	4,62E-02	MND	4,75E-02	MND	MND	MND	0,00E+00	3,95E-03	2,35E-02	1,19E-02	-3,54E-01
EP-terrestrial	mol Ne	5,77E+00	1,02E-01	9,05E-01	6,78E+00	1,50E-01	6,81E-01	MND	2,13E-02	MND	4,91E-01	MND	MND	MND	0,00E+00	4,30E-02	2,13E-01	1,55E-02	-3,64E+00
POCP ("smog")[3)]	kg NMVOCe	2,23E+00	3,67E-02	4,60E-01	2,73E+00	6,19E-02	2,04E-01	MND	5,18E-03	MND	1,87E-01	MND	MND	MND	0,00E+00	1,76E-02	5,53E-02	6,61E-03	-1,56E+00
ADP-minerals & metals[4)]	kg Sbe	3,05E-03	1,37E-05	1,08E-04	3,17E-03	2,93E-05	7,71E-06	MND	8,36E-06	MND	1,95E-04	MND	MND	MND	0,00E+00	1,01E-05	7,19E-05	1,25E-06	-2,49E-03
ADP-fossil resources	MJ	1,05E+04	7,54E+01	3,75E+03	1,44E+04	1,56E+02	2,01E+02	MND	2,29E+01	MND	1,84E+03	MND	MND	MND	0,00E+00	5,12E+01	5,19E+01	1,19E+01	-6,91E+03
Water use[5)]	m^3e depr.	2,27E+02	3,66E-01	4,33E+01	2,71E+02	7,91E-01	8,24E-01	MND	7,77E-01	MND	2,33E+01	MND	MND	MND	0,00E+00	2,51E-01	6,80E+00	7,28E-02	-1,90E+02

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO4e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	3,54E-05	4,88E-07	4,18E-06	4,00E-05	1,06E-06	3,78E-06	MND	8,36E-08	MND	2,28E-06	MND	MND	MND	0,00E+00	3,45E-07	4,08E-07	8,53E-08	-2,70E-05
Ionizing radiation[6)]	kBq U235e	8,59E+01	7,83E-02	1,40E+02	2,26E+02	1,85E-01	1,16E-01	MND	4,51E-01	MND	5,86E+00	MND	MND	MND	0,00E+00	4,42E-02	2,42E-01	1,27E-02	-5,25E+01
Ecotoxicity (freshwater)	CTUe	2,06E+03	9,12E+00	2,91E+02	2,36E+03	1,82E+01	1,48E+01	MND	1,15E+02	MND	3,53E+02	MND	MND	MND	0,00E+00	7,37E+00	7,32E+01	3,29E+02	-1,40E+03
Human toxicity, cancer	CTUh	3,21E-07	8,97E-10	5,01E-08	3,72E-07	1,80E-09	1,95E-09	MND	1,86E-09	MND	1,30E-08	MND	MND	MND	0,00E+00	5,88E-10	1,08E-08	2,94E-10	-2,46E-07
Human tox. non-cancer	CTUh	5,71E-06	4,62E-08	4,20E-07	6,18E-06	9,99E-08	4,81E-08	MND	2,10E-07	MND	4,21E-07	MND	MND	MND	0,00E+00	3,30E-08	4,41E-07	5,84E-08	-3,81E-06
SQP[7)]	-	2,49E+03	6,96E+01	3,46E+03	6,02E+03	1,54E+02	2,48E+01	MND	7,51E+00	MND	1,96E+02	MND	MND	MND	0,00E+00	4,87E+01	5,96E+01	2,71E+01	-1,31E+03

6) EN 15804+A2 disclaimer for Ionizing radiation, human health. 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; 7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy[8)]	MJ	1,21E+03	1,11E+00	6,02E+02	1,81E+03	2,51E+00	-3,51E+02	MND	3,95E+00	MND	8,48E+01	MND	MND	MND	0,00E+00	7,02E-01	4,58E+00	1,97E-01	-1,50E+03
Renew. PER as material	MJ	9,20E-01	0,00E+00	3,63E+02	3,64E+02	0,00E+00	-3,63E+02	MND	0,00E+00	MND	0,00E+00	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,99E+01
Total use of renew. PER	MJ	1,21E+03	1,11E+00	9,65E+02	2,18E+03	2,51E+00	-7,15E+02	MND	3,95E+00	MND	8,48E+01	MND	MND	MND	0,00E+00	7,02E-01	4,58E+00	1,97E-01	-1,48E+03
Non-re. PER as energy	MJ	3,16E+03	7,54E+01	2,26E+03	5,49E+03	1,56E+02	1,57E+02	MND	2,29E+01	MND	3,41E+00	MND	MND	MND	0,00E+00	5,12E+01	-4,78E+03	-1,73E+03	-6,98E+03
Non-re. PER as material	MJ	7,35E+03	0,00E+00	-2,42E+02	7,11E+03	0,00E+00	-6,90E+01	MND	0,00E+00	MND	9,95E+02	MND	MND	MND	0,00E+00	0,00E+00	-5,87E+03	-2,17E+03	1,90E+03
Total use of non-re. PER	MJ	1,05E+04	7,54E+01	2,02E+03	1,26E+04	1,56E+02	8,81E+01	MND	2,29E+01	MND	9,99E+02	MND	MND	MND	0,00E+00	5,12E+01	-1,07E+04	-3,90E+03	-5,08E+03
Secondary materials	kg	1,44E+02	3,28E-02	1,60E+00	1,46E+02	6,77E-02	8,78E-02	MND	5,78E-02	MND	2,96E-01	MND	MND	MND	0,00E+00	2,20E-02	1,78E-01	4,32E-03	7,02E+01
Renew. secondary fuels	MJ	3,08E+00	3,80E-04	1,23E+01	1,54E+01	8,36E-04	2,97E-04	MND	6,65E-05	MND	7,31E-01	MND	MND	MND	0,00E+00	2,79E-04	1,68E-03	7,95E-05	-2,27E-02
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	2,20E-03	2,20E-03	0,00E+00	0,00E+00	MND	0,00E+00	MND	0,00E+00	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water	m^3	6,16E+00	1,06E-02	6,05E-01	6,78E+00	2,28E-02	-1,85E-02	MND	1,38E-02	MND	1,14E+00	MND	MND	MND	0,00E+00	7,47E-03	6,26E-02	-1,71E-01	-4,95E+00

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	9,06E+01	1,14E-01	2,56E+00	9,32E+01	2,25E-01	2,99E-01	MND	1,32E-01	MND	2,16E+00	MND	MND	MND	0,00E+00	8,72E-02	2,50E+00	2,53E-02	-1,06E+02
Non-hazardous waste	kg	2,02E+03	2,16E+00	8,89E+01	2,11E+03	4,48E+00	5,80E+01	MND	2,54E+03	MND	7,95E+01	MND	MND	MND	0,00E+00	1,62E+00	1,00E+02	2,30E+02	-1,13E+03
Radioactive waste	kg	2,23E-02	1,93E-05	2,92E-02	5,15E-02	4,59E-05	2,86E-05	MND	1,16E-04	MND	1,19E-03	MND	MND	MND	0,00E+00	1,08E-05	6,16E-05	3,10E-06	-1,29E-02

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	0,00E+00	MND	0,00E+00	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	0,00E+00	0,00E+00	3,69E+00	3,69E+00	0,00E+00	8,11E+00	MND	0,00E+00	MND	2,10E+01	MND	MND	MND	0,00E+00	0,00E+00	6,56E+01	0,00E+00	0,00E+00
Materials for energy rec	kg	0,00E+00	0,00E+00	4,87E+00	4,87E+00	0,00E+00	0,00E+00	MND	0,00E+00	MND	0,00E+00	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	1,04E-03	1,04E-03	0,00E+00	4,46E+01	MND	0,00E+00	MND	0,00E+00	MND	MND	MND	0,00E+00	0,00E+00	1,22E+03	0,00E+00	0,00E+00
Exported energy – Electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,88E+01	MND	0,00E+00	MND	0,00E+00	MND	MND	MND	0,00E+00	0,00E+00	5,13E+02	0,00E+00	0,00E+00
Exported energy – Heat	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,58E+01	MND	0,00E+00	MND	0,00E+00	MND	MND	MND	0,00E+00	0,00E+00	7,06E+02	0,00E+00	0,00E+00

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / ISO 21930

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO_2e	6,18E+02	5,25E+00	5,79E+01	6,81E+02	1,07E+01	1,70E+01	MND	1,58E+00	MND	1,06E+02	MND	MND	MND	0,00E+00	3,53E+00	2,55E+02	5,14E+00	-4,02E+02
Ozone depletion Pot.	kg CFC_{-11}e	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Acidification	kg SO_2e	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Eutrophication	kg PO_4^3e	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
POCP (“smog”)	kg C_2H_4e	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ADP-elements	kg Sbe	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ADP-fossil	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

ADDITIONAL INDICATOR – GWP-GHG

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG[9)]	kg CO_2e	6,20E+02	5,29E+00	5,84E+01	6,83E+02	1,08E+01	1,66E+01	MND	1,44E+00	MND	1,07E+02	MND	MND	MND	0,00E+00	3,55E+00	2,55E+02	5,37E+00	-4,09E+02

9) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. In addition, the characterisation factors for the flows – CH4 fossil, CH4 biogenic and Dinitrogen monoxide – were updated. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterisation factor for biogenic CO2 is set to zero.

SCENARIO DOCUMENTATION

Manufacturing energy scenario documentation

Scenario parameter	Value
Electricity data source and quality	Electricity production, hydro, run-of-river (Reference product: electricity, high voltage); Electricity production, nuclear, boiling water reactor (Reference product: electricity, high voltage)
Electricity CO2e / kWh	0.0044 kg CO2e / kWh; 0.0076 kg CO2e / kWh
District heating data source and quality	District Heat, Finland, 2022 (One Click LCA)
District heating CO2e / kWh	0.0934 kg CO2e / kWh

Transport scenario documentation A4

Scenario parameter	Value
Fuel and vehicle type. Eg, electric truck, diesel powered truck	Diesel powered truck
Average transport distance, km	582
Capacity utilization (including empty return) %	50
Bulk density of transported products	-
Volume capacity utilization factor	1

Installation scenario documentation A5

Scenario information	Value
Ancillary materials for installation (specified by material) / kg or other units as appropriate	-
Water use / m³	-
Other resource use / kg	-
Quantitative description of energy type (regional mix) and consumption during the installation process / kWh or MJ	36
Waste materials on the building site before waste processing, generated by the product's installation (specified by type) / kg	-
Output materials (specified by type) as result of waste processing at the building site e.g. collection for recycling, for energy recovery, disposal (specified by route) / kg	25,1
Direct emissions to ambient air, soil and water / kg	-

Use stages scenario documentation - B2 Maintenance

Scenario information	Value
Maintenance process / Description or source where description can be found	The waste unit requires minimal maintenance, primarily occasional light washing.
Maintenance cycle / Number per RSL or year *(Not applicable if only B2 is declared)*	Twice per year
Ancillary materials for maintenance, e.g. cleaning agent, specify materials / kg / cycle	-
Waste material resulting from maintenance (specify materials) / kg	-
Net fresh water consumption during maintenance / m^3	-
Energy input during maintenance, e.g. vacuum cleaning, energy carrier type, e.g. electricity, and amount, if applicable and relevant / kWh	-

Use stages scenario documentation - B4 Replacement

Scenario information	Value
Replacement cycle / Number per RSL or year	Twice per RSL
Energy input during replacement, e.g., crane activity, energy carrier type, e.g., electricity and amount (if applicable and relevant) / kWh	-
Exchange of worn parts during the product's life cycle, e.g., zinc galvanized steel sheet (specify materials) / kg	10,5

End of life scenario documentation

Scenario information	Value
Collection process – kg collected separately	193,2 kg. The waste unit can be disassembled into separate parts for recycling after use.
Collection process – kg collected with mixed waste	-
Recovery process – kg for re-use	-
Recovery process – kg for recycling	66,75
Recovery process – kg for energy recovery	79,82
Disposal (total) – kg for final deposition	46,63
Scenario assumptions e.g. transportation	The transportation distance for end-of-life (EoL) treatment is assumed to range between 50 and 250 km, with the transportation method being trucks with a capacity exceeding 32 tons.

THIRD-PARTY VERIFICATION STATEMENT

EPD Hub declares that this EPD is verified in accordance with ISO 14025 by an independent, third-party verifier. The project report on the Life Cycle Assessment and the report(s) on features of environmental relevance are filed at EPD Hub. EPD Hub PCR and ECO Platform verification checklist are used.

EPD Hub is not able to identify any unjustified deviations from the PCR and EN 15802+A2 in the Environmental Product Declaration and its project report.

EPD Hub maintains its independence as a third-party body; it was not involved in the execution of the LCA or in the development of the declaration and has no conflicts of interest regarding this verification.

The company-specific data and upstream and downstream data have been examined as regards plausibility and consistency. The publisher is responsible for ensuring the factual integrity and legal compliance of this declaration.

The software used in creation of this LCA and EPD is verified by EPD Hub to conform to the procedural and methodological requirements outlined in ISO 14025:2010, ISO 14040/14044, EN 15804+A2, and EPD Hub Core Product Category Rules and General Program Instructions.

Verified tools

Tool verifier: Magaly Gonzalez Vazquez
Tool verification validity: 27 March 2025 - 26 March 2028

Sarah Curpen, as an authorised verifier acting for EPD Hub Limited

07.10.2025

ANNEX I: SCALING TABLE

Below is a list of products covered by this EPD, along with their respective scaling factors for A1-3 results. The scaling factor can be used to estimate the environmental performance of each assembly size.

Product Name	Mass kg	Scaling factor	A1-A3, EN 15804+A2		
		GWP-fossil	GWP-fossil	GWP-biogenic	GWP-total
5000-5000 (Representative)	193,14	1	**682,16**	-41,11	642,38
5000-3000	142,74	0,90	**615,38**	-41,10	575,51
5000-2500	108,95	0,82	**562,09**	-41,11	522,19
3000-3000	141,69	0,80	**547,00**	-32,84	515,25
3000-2000	103,39	0,74	**504,72**	-32,84	472,96
3000-1300	90,74	0,69	**471,61**	-32,85	439,79
1300-1300	77,03	0,40	**269,63**	-25,93	244,19
1300-800	58,63	0,37	**250,17**	-25,93	224,73
1300-600	55,34	0,34	**229,63**	-25,93	204,15