



# ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

## Aisti® Acoustic Tile 20 mm

Aisti Corporation Oy

### EPD HUB, HUB-5632

Published on 06.03.2026, last updated on 06.03.2026, valid until 06.09.2027

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	Aisti Corporation Oy
Address	Kilpisenkatu 6, 40100 Jyväskylä, Finland
Contact details	mikko@aisti.com
Website	www.aisti.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	Design phase EPD
Parent EPD number	-
Scope of the EPD	Cradle to gate with A5, and modules C1-C4, D
EPD author	Juho Laaksonen, LCA Point
EPD verification	Independent verification of this EPD and data, according to ISO 14025: <input type="checkbox"/> Internal verification <input checked="" type="checkbox"/> External verification
EPD verifier	Elma Avdyli as an authorized verifier for EPD Hub

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	Aisti® Acoustic Tile 20 mm
Additional labels	-
Product reference	-
Place(s) of raw material origin	Finland
Place of production	Kitee, Finland
Place(s) of installation and use	EU
Period for data	Calendar Year 2025 (1-11)
Averaging in EPD	No grouping
Variation in GWP-fossil for A1-A3 (%)	-
A1-A3 Specific data (%)	86 %

### ENVIRONMENTAL DATA SUMMARY

Declared unit	1 m2
Declared unit mass	1,78 kg
Mass of packaging	0,253 kg
GWP-fossil, A1-A3 (kgCO <sub>2</sub> e)	1,29
GWP-total, A1-A3 (kgCO <sub>2</sub> e)	-0,55
Secondary material, inputs (%)	50,6
Secondary material, outputs (%)	23,6
Total energy use, A1-A3 (kWh)	41,7
Net freshwater use, A1-A3 (m <sup>3</sup> )	1,43

## PRODUCT AND MANUFACTURER

### ABOUT THE MANUFACTURER

Aisti® acoustic tile is made from natural fibers without plastic, synthetic binders, or irritating fibers. Aisti® acoustic tile combines ecological features, competitive pricing, and easy recyclability in addition to the technical specifications required by the harmonized standard for suspended ceilings SFS-EN 13964:2014.

### PRODUCT DESCRIPTION

Aisti® acoustic tile is made from natural fibers without plastic, synthetic binders, or irritating fibers. Aisti® acoustic tile combines ecological features, competitive pricing, and easy recyclability in addition to the technical specifications required by the harmonized standard for suspended ceilings SFS-EN 13964:2014.

#### Technical specifications of Aisti® 20 mm acoustic tile

Absorption class (EN ISO 354/EN ISO 11654)	A
Fire retardancy (EN 13501-1)	B-s1, d0
Emission Classification, Indoor air	M1
French VOC	A+
Recyclability (CEPI)	Base board fully recyclable
Moisture resistance	C class RH 95%, 30°C
Installation	T-grid / direct fixing with glue
Thickness	20 mm
Tile sizes	600 x 600 mm 600 x 1200 mm

Further information can be found at:  
[www.aisti.com](http://www.aisti.com)

### PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	0	
Minerals	8	FI, NE
Fossil materials	12	FI
Bio-based materials	80	FI

### BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0,72
Biogenic carbon content in packaging, kg C	0,12

### FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 m2
Mass per declared unit	1,78 kg
Functional unit	1 m2
Reference service life	50 Years

### 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	ND	x	ND	ND	ND	ND	ND	ND	ND	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 = ND. 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.

The product is manufactured using foam-forming technology, which enables production without fossil or mineral-based binders. The primary raw material is CTMP fiber, sourced from certified domestic forest areas in Finland. The product is coated with acoustically facing and treated with flame-retardant liquid, both of which are incorporated into the LCA model.

Production data is derived from a test production line, with raw material composition extensively tested and assumed accurate for the industrial-scale production plant, expected to commence in 2026 in Kitee.

Other resources, such as energy consumption and wastewater handling, are based on calculations prepared for the environmental permit of the new production plant.

The use of green energy in manufacturing is verified through contractual instruments, ensuring its continuous application throughout the entire validity period of this EPD. According to the electricity supplier, the contracted energy mix used for manufacturing consists on average of 70% nuclear power and 30% hydropower.

Raw materials are transported to the manufacturing site using trucks with a capacity exceeding 32 tonnes. The acoustic tiles are packed into cardboard boxes and placed on wooden pallets wrapped in plastic film.



*Foam forming process*

## TRANSPORT AND INSTALLATION (A4-A5)

Data for the A4 stage is not available and is therefore excluded from this model. The A5 (installation) stage accounts for the handling of packaging material waste. Acoustic panels are installed manually, and therefore no energy inputs are included in this life cycle stage.

## PRODUCT USE AND MAINTENANCE (B1-B7)

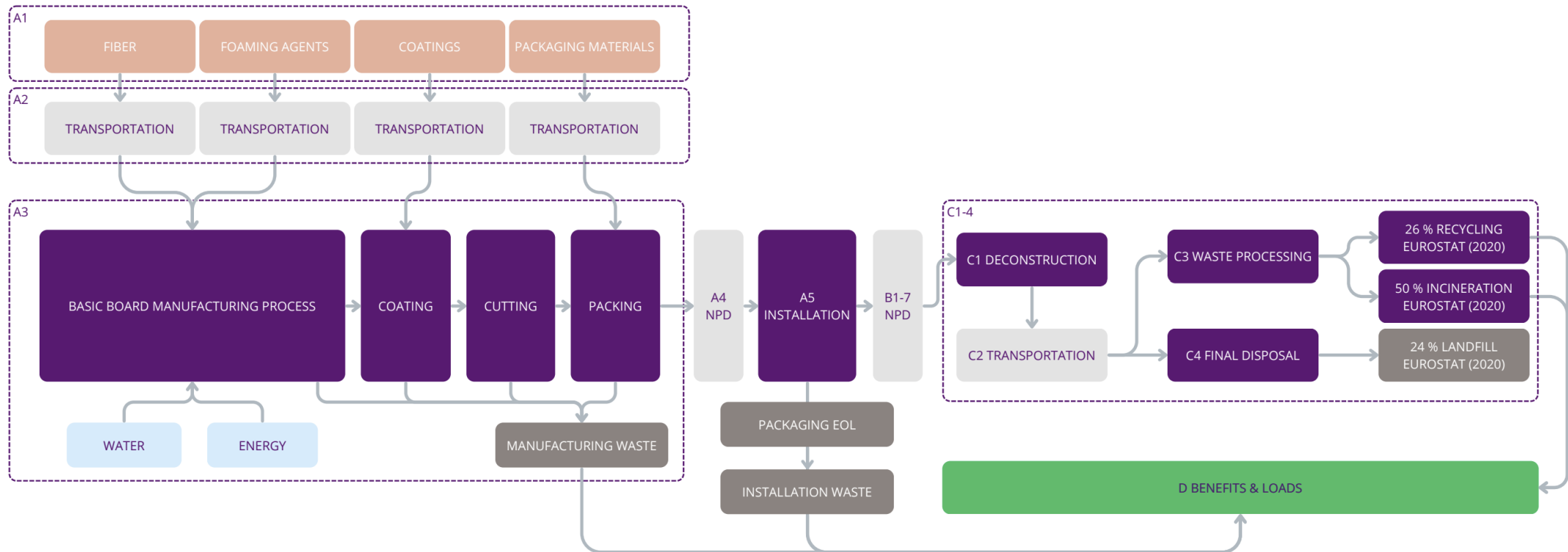
This EPD does not cover the use phase.

Air, soil, and water impacts during the use phase have not been studied.

## PRODUCT END OF LIFE (C1-C4, D)

At the end of its life cycle, the product is manually collected and transported for further recycling. For the end-of-life scenario, Eurostat data for wood fiber insulation has been applied, with 50% allocated to recycling, 26% to incineration for energy recovery, and 24% to landfill. Transportation to further processing is assumed to be 50-150 km.

## SYSTEM DIAGRAM



## 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	Not applicable
Variation in GWP-fossil for A1-A3, %	-

### LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator for EPD Hub V3 and EPD System Verification v3.2.3. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1/3.11 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1/3.11 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 <sup>1)</sup>	kg CO <sub>2</sub> e	-1,62E+00	7,55E-02	-2,45E-01	-1,79E+00	ND	5,43E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,84E-02	2,00E+00	6,85E-01	-3,04E-01
GWP – fossil	kg CO <sub>2</sub> e	1,00E+00	7,55E-02	2,09E-01	1,29E+00	ND	8,84E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,84E-02	1,55E-02	5,89E-02	-1,14E-01
GWP – biogenic	kg CO <sub>2</sub> e	-2,63E+00	1,08E-05	-4,55E-01	-3,09E+00	ND	4,54E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,85E-07	1,98E+00	6,26E-01	-1,91E-01
GWP – LULUC	kg CO <sub>2</sub> e	1,23E-02	3,04E-05	1,49E-03	1,38E-02	ND	7,00E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,25E-05	1,20E-05	4,27E-06	3,98E-04
Ozone depletion pot.	kg CFC <sub>11</sub> e	6,04E-08	1,37E-09	5,66E-09	6,75E-08	ND	3,53E-09	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,30E-10	1,90E-10	1,71E-10	-3,08E-09
Acidification potential	mol H <sup>+</sup> e	4,68E-03	2,49E-04	1,30E-03	6,23E-03	ND	3,69E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	9,64E-05	1,45E-04	5,28E-05	-7,93E-04
EP-freshwater <sup>2)</sup>	kg Pe	6,92E-04	5,38E-06	1,40E-04	8,37E-04	ND	4,48E-05	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,19E-06	7,93E-06	3,69E-06	-1,90E-04
EP-marine	kg Ne	1,55E-03	8,34E-05	1,02E-03	2,65E-03	ND	2,13E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,17E-05	7,19E-05	4,64E-04	-2,75E-04
EP-terrestrial	mol Ne	1,32E-02	9,08E-04	3,93E-03	1,80E-02	ND	1,13E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,45E-04	6,89E-04	2,22E-04	-2,67E-03
POCP (“smog”) <sup>3)</sup>	kg NMVOCe	4,76E-03	3,90E-04	1,34E-03	6,50E-03	ND	4,02E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,43E-04	1,75E-04	8,32E-05	-8,00E-04
ADP-minerals & metals <sup>4)</sup>	kg Sbe	5,97E-06	2,09E-07	1,92E-06	8,10E-06	ND	4,56E-07	ND	ND	ND	ND	ND	ND	ND	0,00E+00	8,02E-08	3,29E-08	1,65E-08	-1,89E-07
ADP-fossil resources	MJ	4,20E+01	1,09E+00	1,23E+02	1,66E+02	ND	8,41E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,12E-01	1,78E-01	1,42E-01	-2,48E+00
Water use <sup>5)</sup>	m <sup>3</sup> e depr.	1,19E+00	5,53E-03	1,22E+00	2,42E+00	ND	1,26E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,03E-03	2,81E-02	3,32E-03	1,45E-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	6,66E-08	7,53E-09	4,27E-08	1,17E-07	ND	6,80E-09	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,80E-09	1,53E-09	1,02E-09	-1,97E-08
Ionizing radiation <sup>6)</sup>	kBq 11235e	2,65E+00	1,18E-03	1,01E+01	1,27E+01	ND	6,37E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,69E-04	1,93E-03	1,49E-04	-5,88E-02
Ecotoxicity (freshwater)	CTUe	1,67E+01	1,39E-01	1,84E+00	1,87E+01	ND	1,17E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,79E-02	9,28E-02	6,46E-01	-4,36E-01
Human toxicity, cancer	CTUh	1,94E-09	1,24E-11	3,29E-10	2,28E-09	ND	1,22E-10	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,70E-12	2,42E-11	6,44E-12	-3,52E-11
Human tox. non-cancer	CTUh	7,55E-08	7,10E-10	5,82E-09	8,20E-08	ND	4,57E-09	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,66E-10	1,60E-09	5,61E-10	-1,13E-09
SQP <sup>7)</sup>	-	2,42E+02	1,10E+00	3,71E+01	2,80E+02	ND	1,41E+01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,03E-01	4,29E-02	3,15E-01	-1,70E+01

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 <sup>8)</sup>	MJ	2,15E+01	1,68E-02	1,66E+01	3,81E+01	ND	-3,65E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,74E-03	-1,37E+01	-6,60E+00	-2,83E-01
Renew. PER as material	MJ	2,49E+01	0,00E+00	4,34E+00	2,92E+01	ND	-4,34E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	-1,89E+01	-5,98E+00	1,62E+00
Total use of renew. PER	MJ	4,64E+01	1,68E-02	2,09E+01	6,73E+01	ND	-7,99E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,74E-03	-3,26E+01	-1,26E+01	1,34E+00
Non-re. PER as energy	MJ	4,51E+01	1,09E+00	1,22E+02	1,68E+02	ND	8,11E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,12E-01	1,78E-01	-5,93E+00	-2,51E+00
Non-re. PER as material	MJ	2,31E+00	0,00E+00	5,53E-01	2,87E+00	ND	-5,53E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	-1,76E+00	-5,55E-01	1,70E-01
Total use of non-re. PER	MJ	4,74E+01	1,09E+00	1,23E+02	1,71E+02	ND	7,56E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,12E-01	-1,58E+00	-6,48E+00	-2,34E+00
Secondary materials	kg	1,01E-02	4,70E-04	5,64E-02	6,70E-02	ND	3,50E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,76E-04	2,90E-04	5,57E-05	8,44E-02
Renew. secondary fuels	MJ	2,42E-03	5,95E-06	6,70E-02	6,94E-02	ND	3,47E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,24E-06	6,62E-07	1,15E-06	-3,42E-06
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water	m <sup>3</sup>	1,07E-02	1,62E-04	2,87E-02	3,96E-02	ND	1,66E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	6,05E-05	2,17E-04	-1,95E-03	2,43E-05

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	3,63E-02	1,68E-03	4,62E-02	8,42E-02	ND	5,94E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	6,90E-04	5,44E-03	9,32E-04	-2,88E-03
Non-hazardous waste	kg	9,36E-01	3,27E-02	1,51E+01	1,60E+01	ND	1,42E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,29E-02	8,44E-01	2,70E+00	-6,28E-01
Radioactive waste	kg	1,32E-05	2,92E-07	2,09E-03	2,10E-03	ND	1,05E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	9,06E-08	4,95E-07	3,67E-08	-1,51E-05

## 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	1,40E+01	1,40E+01	ND	7,00E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	7,81E-03	0,00E+00	0,00E+00	7,81E-03	ND	1,50E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	4,20E-01	0,00E+00	0,00E+00
Materials for energy rec	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	8,90E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	1,23E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	3,06E+00	0,00E+00	0,00E+00
Exported energy – Electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	5,10E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	1,29E+00	0,00E+00	0,00E+00
Exported energy –	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	7,20E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	1,77E+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 <sup>9)</sup>	kg CO <sub>2</sub> e	1,02E+00	7,55E-02	2,10E-01	1,30E+00	ND	8,91E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,84E-02	1,55E-02	5,89E-02	-1,13E-01

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 – CH<sub>4</sub> fossil, CH<sub>4</sub> 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 CO<sub>2</sub> is set to zero.

## SCENARIO DOCUMENTATION

### DATA SOURCES

#### Manufacturing energy scenario documentation

1. Electricity production, hydro, run-of-river, Finland, Ecoinvent, 0.0044 kgCO<sub>2</sub>e/kWh
2. Electricity production, nuclear, pressure water reactor, Finland, Ecoinvent, 0.0077 kgCO<sub>2</sub>e/kWh

#### Installation scenario documentation - A5 (Installation waste)

Plastic for recycling 0.004 kg  
 Plastic for municipal incineration, 0.0037 kg  
 Plastic for sanitary landfill, 0.0023 kg  
 Wood for recycling, 0.014 kg  
 Wood for energy recovery, 0.089 kg  
 Wood for sanitary landfill, 0.079 kg  
 Paper material for recycling, 0.12 kg  
 Paper material for incineration, 0.012 kg  
 Paper material for sanitary landfill, 0.014 kg  
 Exported Energy: Electricity, 0.049 MJ  
 Exported Energy: Thermal, 0.070 MJ

#### EoL scenario documentation - C1-C4

Glass fiber municipal incineration, 0.017 kg  
 Glass fiber sanitary landfill, 0.15 kg  
 Wood fiber for recycling, 0.42 kg  
 Wood fiber for municipal incineration, 0.81 kg  
 Wood fiber for sanitary landfill, 0.39 kg  
 Exported Energy: Electricity, 1.2912 MJ  
 Exported Energy: Thermal, 1.77 MJ

Scenario information	Value
Scenario assumptions e.g. transportation	50-150 km

## 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 15804+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

Elma Avdyli as an authorized verifier for EPD Hub Limited 06.03.2026

