



ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

Wood profiles in pine
Parkanon Listatehdas Oy



EPD HUB, HUB-5747

Published on 23.04.2026, last updated on 10.06.2026, valid until 22.04.2031

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	Parkanon Listatehdas Oy
Address	Teollisuustie 11, 39700 Parkano
Contact details	myynti@parkanonlista.fi
Website	www.parkanonlista.fi

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 EN 16485 Round and sawn timber
Sector	Construction product
Category of EPD	Third party verified EPD
Parent EPD number	-
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Hilkka Ala-Kauhaluoma
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	Yazan Badour 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	Wood profiles in pine
Additional labels	Different dimensions and applications untreated or surface treated
Product reference	-
Place(s) of raw material origin	Finland
Place of production	Parkano, Finland
Place(s) of installation and use	Finland
Period for data	01/01/2024-31/12/2024
Averaging in EPD	Multiple products
Variation in GWP-fossil for A1-A3 (%)	+1,7%/-15%
GTIN (Global Trade Item Number)	-
NOBB (Norwegian Building Product Database)	-
A1-A3 Specific data (%)	89,2

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 m3 of pine profiles
Declared unit mass	420 kg
Mass of packaging	11,6 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	332
GWP-total, A1-A3 (kgCO ₂ e)	-668
Secondary material, inputs (%)	0,03
Total energy use, A1-A3 (kWh)	6160
Net freshwater use, A1-A3 (m ³)	6,09

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

At your service – Parkanon Listatehdas Oy. The company is a manufacturer of both customer specific and standard profiles in solid wood for interior designs, construction purposes/DIY and components for further processing. Holding vast experience in many geographical markets as well as different business sectors. Sustainability guides us in our every action, we are committed to environmental responsibility and sustainable development in all our processes. In addition to more standard profiles it is possible to manufacture profiles entirely to unique drawings and designs. We master all critical points of moulding manufacturing and the personnel has a vast knowledge and experience. The unique profiles are always manufactured according to agreed specific criteria, possibly all the way to surface treated and ready-to-be-installed product. We produce and maintain tooling on site adding value, possibilities and flexibility. It also enables us to serve a variety of different demanding end-uses. The wider the range the more it requires from manufacturing and especially tooling. To make it more productive for the customer we supply the profiles cost effectively, reliably and always to agreed specification. We constantly search for more optimal solutions for machined sections. We aim for longterm cooperation.

PRODUCT DESCRIPTION

This EPD is for pine products we manufacture out of sustainably sourced (PEFC Chain of Custody) sawn timber. Profiles and other characteristics vary depending on the end-use and agreed level of refining. The profiles can be surface treated with lacquer, stain or paint to different colours and shades and can be cut to agreed length specification. It is also possible to treat the profiles with fire retardant liquids on which the production holds a certificate for the manufacturing method. The more common profiles are used in construction and renovation sector in different applications in interior designs. Typically as skirtings or architraves as well as other surface covering materials like claddings and batten structures. Unique profile

designs on interior projects are the biggest area of expertise, products to be used in schools, kindergartens, hospitals, hotels, offices or other public spaces. Customized profiles are produced for further processing needs on various sectors like windows, doors, furniture, stairs or even vehicles and shipbuilding.

Further information can be found at:
www.parkanonlista.fi

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	0	-
Minerals	0	-
Fossil materials	0	-
Bio-based materials	100	Finland

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	189
Biogenic carbon content in packaging, kg C	3,8

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 m3 of pine profiles
Mass per declared unit	420 kg
Functional unit	-
Reference service life	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	x	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	Recycling

Not declared = ND.

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.

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A1:Raw material is a sawn pine plank quality sorted at a sawmill to fit the purpose. At the production mill it is quality-checked, cut to length according to the product and possibly kiln-dried and re-sawn to suit the finished dimension. After that it is planed to a profile according to end-use.

A2:Sawn supply consists of many sawmills and the transportation calculated on an annual basis.

A3:All by-products and waste occurring in production such as chips and rejects are either burned for heating in our own facility or at appropriate registered facility elsewhere.

Standard grid electricity is the source of power in production, either directly or converted to pressurised air.

Products are packed safely for transportation. Protective packaging consists of pallets, plastic covers, protective strips of wood and tightening straps which can be either plastic (PP) or steel band.

All residue occurring in production and incoming materials is either re-used or recycled to appropriate facilities, nothing goes to general waste. The transportation is based on recorded and measured data.

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.

A4: Products are delivered to customers on trailers or trucks as a joint delivery by an outside distribution company. Average distance is 235 kms per customer.

A5:Energy and materials used in assembly/installation are not taken into consideration as it varies customer to customer and customer's case by

case.

Recycled materials are taken care of by appropriate registered recycling companies. Plastics are baled and collected by a re-user, some of it returns to us after re-use circle as plastic covers to be used again. All wooden material are collected by companies that use it as a source of energy after chipping.

The calculation is based on EU statistical data scenarios on wooden and plastic materials and the average transportation distance is 50km.

On wooden packages (source: EUROSTAT, https://ec.europa.eu/eurostat/databrowser/view/env_waspac__custom_8519174/default/table?lang=en

32% of the wooden packaging is recycled

30% of the wooden packaging is incinerated

38% of the wooden packaging is for landfill

On plastics source: EUROSTAT,

https://ec.europa.eu/eurostat/databrowser/view/env_waspac__custom_8519242/default/table?lang=en

40% of the plastic packaging is recycled

37% of the plastic packaging is incinerated

23% of the plastic packaging is landfilled

PRODUCT END OF LIFE (C1-C4, D)

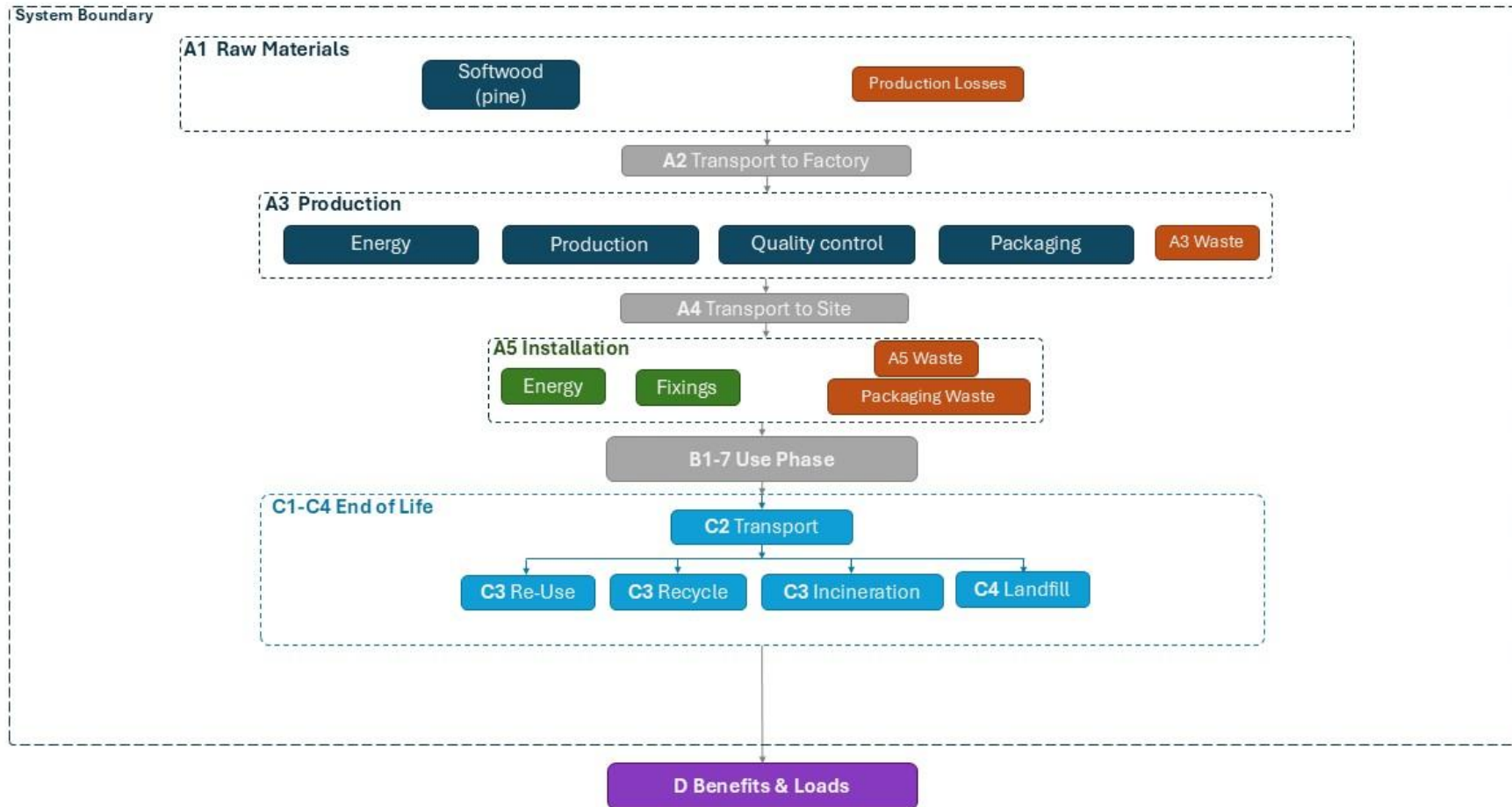
C1: Energy consumption at the end of life-cycle is estimated to be zero (0)

C2-4.: Wood treatments scenario is based on European data: 26% recycled, 50% incinerated with energy recovery, 24% landfill (Eurostat & BuildLCA 2020 (pg 12, Table 6)).

D The benefits if incineration and recycling are reported in module D. Benefits in recycled wood replaces primary wood production. The benefits of wood incineration are modelled with European electricity and heat production.

SYSTEM DIAGRAM

Parkanon Listatehdas Oy life-cycle 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	Economic Values
Packaging material	Physical Properties
Ancillary materials	Physical Properties
Manufacturing energy and waste	Physical Properties

PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	Multiple products
Grouping method	Based on average results of product group - by total mass
Variation in GWP-fossil for A1-A3, %	+1,7%/-15%

All products are produced out of same raw material only the dimensioning like thickness, width and length are the variable measures. The production process is the same with hardly any change in energy consumption. Surface treated and untreated products are covered in the calculation. Surface treated material product has abt 15% higher GWP-fossil emissions than average and unterated has abt 1,7% less GWP-fossil emissions than average.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator for EPD Hub V3 and EPD Process Certification v3.2.5. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1/3.11/3.12 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1/3.11/3.12 environmental data sources follow the methodology 'allocation, Cut-off, EN 15804+A2'.

https://ec.europa.eu/eurostat/databrowser/view/env_waspac__custom_8519174/default/table?lang=en

EUROSTAT,

https://ec.europa.eu/eurostat/databrowser/view/env_waspac__custom_8519242/default/table?lang=en

Eurostat & BuildLCA 2020 (pg 12, Table 6).

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 ₂ e	-1,69E+03	1,37E+01	1,01E+03	-6,68E+02	1,09E+01	1,68E+01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	6,87E+00	7,53E+02	2,40E+02	-2,28E+02
GWP – fossil	kg CO ₂ e	4,10E+01	1,36E+01	2,77E+02	3,32E+02	1,09E+01	1,04E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	6,87E+00	4,02E+00	3,09E+00	-4,21E+01
GWP – biogenic	kg CO ₂ e	-1,73E+03	3,08E-03	7,28E+02	-1,00E+03	2,46E-03	1,57E+01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	7,49E+02	2,36E+02	-1,86E+02
GWP – LULUC	kg CO ₂ e	6,60E-01	6,11E-03	1,38E-01	8,05E-01	4,87E-03	5,26E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,07E-03	3,13E-03	1,05E-03	-1,52E-01
Ozone depletion pot.	kg CFC-11e	4,08E-06	2,01E-07	3,43E-06	7,72E-06	1,61E-07	5,76E-09	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,01E-07	4,92E-08	5,24E-08	-1,17E-06
Acidification potential	mol H ⁺ e	3,53E-01	4,65E-02	1,28E+00	1,68E+00	3,71E-02	1,99E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,34E-02	3,76E-02	1,09E-02	-2,65E-01
EP-freshwater ²⁾	kg Pe	8,97E-03	1,06E-03	9,29E-02	1,03E-01	8,47E-04	9,26E-05	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,35E-04	2,06E-03	1,02E-03	-3,59E-02
EP-marine	kg Ne	1,45E-01	1,53E-02	4,08E-01	5,68E-01	1,22E-02	2,07E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	7,70E-03	1,86E-02	3,76E-02	-6,34E-02
EP-terrestrial	mol Ne	1,55E+00	1,66E-01	4,43E+00	6,14E+00	1,33E-01	8,14E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	8,38E-02	1,79E-01	3,89E-02	-6,26E-01
POCP (“smog”) ³⁾	kg NMVOCe	5,22E-01	6,86E-02	1,23E+00	1,82E+00	5,47E-02	2,65E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,45E-02	4,54E-02	1,66E-02	-1,91E-01
ADP-minerals & metals ⁴⁾	kg Sbe	1,03E-04	3,81E-05	2,10E-04	3,51E-04	3,03E-05	1,06E-06	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,92E-05	8,53E-06	7,71E-06	-1,03E-04
ADP-fossil resources	MJ	7,01E+02	1,98E+02	4,18E+03	5,08E+03	1,58E+02	4,98E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	9,97E+01	4,61E+01	3,95E+01	-9,67E+02
Water use ⁵⁾	m ³ e depr.	4,70E+01	9,78E-01	4,42E+01	9,22E+01	7,80E-01	1,47E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,93E-01	7,30E+00	2,28E-01	-2,57E+01

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	1,61E-01	1,37E-06	4,62E-05	1,61E-01	1,09E-06	3,44E-08	ND	ND	ND	ND	ND	ND	ND	0,00E+00	6,88E-07	3,96E-07	2,12E-07	-6,39E-06
Ionizing radiation ⁶⁾	kBq 11235e	1,98E+01	1,72E-01	6,31E+01	8,31E+01	1,37E-01	1,33E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	8,68E-02	5,01E-01	6,04E-02	-2,58E+01
Ecotoxicity (freshwater)	CTUe	1,58E+02	2,80E+01	5,06E+02	6,92E+02	2,23E+01	1,86E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,41E+01	2,41E+01	3,33E+01	-1,18E+02
Human toxicity, cancer	CTUh	3,20E-08	2,25E-09	7,53E-08	1,09E-07	1,80E-09	1,98E-10	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,13E-09	6,27E-09	1,28E-09	-1,48E-08
Human tox. non-cancer	CTUh	1,57E+01	1,28E-07	3,09E-06	1,57E+01	1,02E-07	1,02E-08	ND	ND	ND	ND	ND	ND	ND	0,00E+00	6,46E-08	4,16E-07	3,32E-08	-5,47E-07
SQP ⁷⁾	-	1,18E+05	1,99E+02	1,72E+04	1,35E+05	1,59E+02	4,72E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,00E+02	1,11E+01	6,08E+01	-1,12E+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+04	2,71E+00	5,06E+03	1,72E+04	2,16E+00	-1,42E+02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,37E+00	-3,55E+03	-1,71E+03	4,19E+02
Renew. PER as material	MJ	1,24E+04	0,00E+00	-3,80E+03	8,64E+03	0,00E+00	-1,20E+02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	-6,47E+03	-2,04E+03	1,39E+03
Total use of renew. PER	MJ	2,46E+04	2,71E+00	1,27E+03	2,58E+04	2,16E+00	-2,62E+02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,37E+00	-1,00E+04	-3,75E+03	1,81E+03
Non-re. PER as energy	MJ	7,04E+02	1,98E+02	4,08E+03	4,98E+03	1,58E+02	-1,77E+01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	9,97E+01	4,61E+01	3,34E+01	-9,67E+02
Non-re. PER as material	MJ	2,61E+01	0,00E+00	2,98E+01	5,60E+01	0,00E+00	-2,99E+01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	-1,55E+01	-1,06E+01	1,21E+01
Total use of non-re. PER	MJ	7,30E+02	1,98E+02	4,11E+03	5,04E+03	1,58E+02	-4,76E+01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	9,97E+01	3,06E+01	2,29E+01	-9,55E+02
Secondary materials	kg	1,42E-01	8,43E-02	1,03E+00	1,26E+00	6,72E-02	3,99E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,24E-02	7,51E-02	3,14E-02	9,14E-02
Renew. secondary fuels	MJ	1,33E-03	1,07E-03	3,20E+00	3,20E+00	8,53E-04	3,86E-05	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,39E-04	1,72E-04	1,97E-04	-8,58E-04
Non-ren. secondary fuels	MJ	4,50E-01	0,00E+00	0,00E+00	4,50E-01	0,00E+00	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 ³	1,45E+00	2,93E-02	4,61E+00	6,09E+00	2,33E-02	-1,25E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,47E-02	5,64E-02	-3,70E-01	-7,82E-01

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	7,85E-01	3,36E-01	2,62E+01	2,73E+01	2,67E-01	3,74E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,69E-01	1,41E+00	1,13E+00	-2,30E+00
Non-hazardous waste	kg	1,81E+01	6,21E+00	4,83E+02	5,07E+02	4,95E+00	2,24E+01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,13E+00	2,19E+02	5,02E+02	-1,85E+02
Radioactive waste	kg	7,81E-04	4,22E-05	1,46E-02	1,55E-02	3,37E-05	3,33E-06	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,13E-05	1,29E-04	1,54E-05	-6,62E-03

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	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	3,94E-01	0,00E+00	3,51E+02	3,51E+02	0,00E+00	3,31E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	1,09E+02	0,00E+00	0,00E+00
Materials for energy rec	kg	7,00E-02	0,00E+00	0,00E+00	7,00E-02	0,00E+00	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
Exported energy	MJ	1,28E-01	0,00E+00	0,00E+00	1,28E-01	0,00E+00	1,87E+01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	9,87E+02	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	7,87E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	4,16E+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	1,08E+01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	5,71E+02	0,00E+00	0,00E+00

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML

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 ₂ e	3,13E+01	1,36E+01	2,76E+02	3,21E+02	1,08E+01	1,25E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	6,83E+00	3,98E+00	8,87E+00	-4,21E+01
Ozone depletion Pot.	kg CFC ₁₁ e	3,84E-07	1,61E-07	2,86E-06	3,41E-06	1,28E-07	4,64E-09	ND	ND	ND	ND	ND	ND	ND	0,00E+00	8,09E-08	4,06E-08	4,25E-08	-1,14E-06
Acidification	kg SO ₂ e	1,33E-01	3,55E-02	9,76E-01	1,14E+00	2,83E-02	1,48E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,79E-02	2,69E-02	8,29E-03	-2,15E-01
Eutrophication	kg PO ₄ ³ e	1,39E-01	8,66E-03	3,11E-01	4,59E-01	6,90E-03	5,28E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,36E-03	9,53E-03	4,96E-03	-4,06E-02
POCP (“smog”)	kg C ₂ H ₄ e	3,19E-02	3,17E-03	9,13E-02	1,26E-01	2,52E-03	1,67E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,59E-03	2,07E-03	1,92E-03	-1,85E-02
ADP-elements	kg Sbe	9,16E-05	3,71E-05	2,06E-04	3,35E-04	2,96E-05	1,02E-06	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,87E-05	7,35E-06	5,78E-06	-1,02E-04

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
ADP-fossil	MJ	3,92E+02	1,95E+02	3,21E+03	3,80E+03	1,56E+02	4,76E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	9,83E+01	3,73E+01	3,85E+01	-5,12E+02

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 ₂ e	4,17E+01	1,37E+01	2,77E+02	3,33E+02	1,09E+01	1,04E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	6,87E+00	4,02E+00	3,09E+00	-4,22E+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 – 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

DATA SOURCES

Manufacturing energy scenario documentation

1. Electricity voltage transformation, residual mix, from high to medium voltage, Finland, Ecoinvent, 0.68 kgCO₂e/kWh
2. Heat production, softwood chips from forest, at furnace 1000kW, World, Ecoinvent, 0.0096 kgCO₂e/MJ
3. Diesel, burned in building machine, World, Ecoinvent, 0.10 kgCO₂e/MJ
4. Wood chips production, softwood, at sawmill, Albania, Ecoinvent, -1.790010 kgCO₂e/kg
5. Electricity voltage transformation, residual mix, from high to medium voltage, Finland, Ecoinvent, 0.68 kgCO₂e/kWh
6. Heat production, softwood chips from forest, at furnace 1000kW, World, Ecoinvent, 0.0096 kgCO₂e/MJ
7. Diesel, burned in building machine, World, Ecoinvent, 0.10 kgCO₂e/MJ
8. Wood chips production, softwood, at sawmill, Albania, Ecoinvent, -1.790010 kgCO₂e/kg

Transport scenario documentation - A4 (Transport resources)

1. Market for transport, freight, lorry >32 metric ton, EURO5, 235.0 km

Transport to the building site (A4) - Scenario documentation

Scenario parameter	Value
Capacity utilization (including empty return) %	100
Bulk density of transported products	432
Volume capacity utilization factor	1

Installation at the building site (A5) - Scenario documentation

Scenario parameter	Value
Energy: type and consumption (MJ or kWh)	-
Water use (m ³)	-
Ancillary materials: type and mass (kg)	-
Waste materials: type and mass (kg)	Waste flows are plastic 0,56 kg and wood 9,65 kg.
Waste materials: output routes	Wood: 32% recycled, 30% incinerated, 38% landfilled Plastic:40% recycled, 37% incinerated, 23% landfilled
Direct emissions (kg)	-

End of life (C1-C4) - Scenario documentation

Scenario information	Value
Collection process: collected separately (kg)	420 kg
Collection process: Mixed waste (kg)	0
Recovery: re-use (kg)	0
Recovery: recycling (kg)	109
Recovery: energy recovery (kg)	0
Disposal (kg)	0
Scenario assumptions e.g. transportation (mode, km) & other	Transport from construction site to recycling site: 250km, to incineration 150 km to landfill 50 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

Yazan Badour as an authorized verifier for EPD Hub Limited 23.04.2026

