

ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025 / ISO 21930

KoskiPan
Koskisen Oyj



EPD HUB, HUB-2306

Published on 29.01.2025, last updated on 29.01.2025, valid until 28.01.2030

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Koskisen Oyj
Address	Tehdastie 2, 16600, Järvelä, FINLAND
Contact details	riitta.ahokas@koskisen.com
Website	www.koskisen.com

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804+A2:2019 and ISO 14025
PCR	EPD Hub Core PCR Version 1.1, 5 Dec 2023
Sector	Construction product
Category of EPD	Third party verified EPD
Parent EPD number	HUB-2296
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Riitta Ahokas
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	Imane Uald Lamkaddam as an authorized verifier for EPD Hub

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	KoskiPan
Additional labels	
Product reference	
Place of production	Kärkölä, Järvelä, Finland
Period for data	1.1.2023 - 31.12.2023
Averaging in EPD	Multiple products
Variation in GWP-fossil for A1-A3	0 %

ENVIRONMENTAL DATA SUMMARY

Declared unit	One cubic meter of chipboard
Declared unit mass	700 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	2,84E+02
GWP-total, A1-A3 (kgCO ₂ e)	-8,28E+02
Secondary material, inputs (%)	0.13
Secondary material, outputs (%)	0
Total energy use, A1-A3 (kWh)	2500
Net freshwater use, A1-A3 (m ³)	3.87

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Koskisen is a pioneer in the sawmill and panel industry. We process sustainable and responsibly sourced wood raw material into high-quality products and sells them to demanding customers in Finland and around the world.

The main products are sawn timber, plywood and chipboard. The business built over a hundred years is based on forests and continuous renewal, which is why caring for nature and the environment from one generation to the next is at the core of our operations and strategy.

Koskisen’s business consists of the Sawmill and Panel Industry segments. The Panel industry business segment produces plywood, thin plywood, veneer, chipboard and interior solutions for utility vehicles.

Koskisen’s production facilities are located in Järvelä and Hirvensalmi in Finland and Toporów in Poland. A new wood processing in Järvelä, where production starts gradually during 2023 and 2024. It increases the Sawmill business segment’s current annual sawn timber production capacity of 300,000 cubic meters to 400,000 cubic meters. With the investment, the new production facility will become a fully integrated wood processing unit.

PRODUCT DESCRIPTION

Koskisen manufactures a wide range of chipboard products from sawdust and wood chips, which are created as by-products at Koskisen’s sawmills and birch plywood production. Koskisen produces types of boards P1, P2, P2Mr, P3, P4, P5, P6 and P7. Thickness can vary from 3 -50 mm.

The chipboard has a declaration of performance according to EN312:2010.

Further information www.koskisen.com

This EPD is done for KoskiPan, uncoated chipboard with density 700 kg/m³.

The moisture content of the product in the delivery to customers is around 6 %.

Further information can be found at www.koskisen.com.

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	0	
Minerals	0	
Fossil materials	10	Finland
Bio-based materials	90	Finland

BIOGENIC CARBON CONTENT

Product’s biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	294.55
Biogenic carbon content in packaging, kg C	9.52

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	One cubic meter of chipboard
Mass per declared unit	700 kg
Functional unit	
Reference service life	

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	MND	MND	MND	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.

Chipboard is produced from our own side streams from own saw mill about 2,5 km and plywood mill about 200 m.

A1: Wood material are sourced from Finland and it is certified according to PEFC or FSC.

A2: All raw materials are reach the site by road. Pre-prepared resin is produced in Finland.

A3: Manufacturing process needs electricity which is sourced from the local grid network and heat is provided from own power plant from wood chips of waste and losses. though it is supplemented by fuel oil.

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: Transport distance from the manufacturing site to users or warehouses is in average 204 km by 32t lorry.

A5: The transporting of the packing material after usage (waste) is assumed to be 50 km.

Packing materials are partly recycled, incinerated and put into landfill.

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)

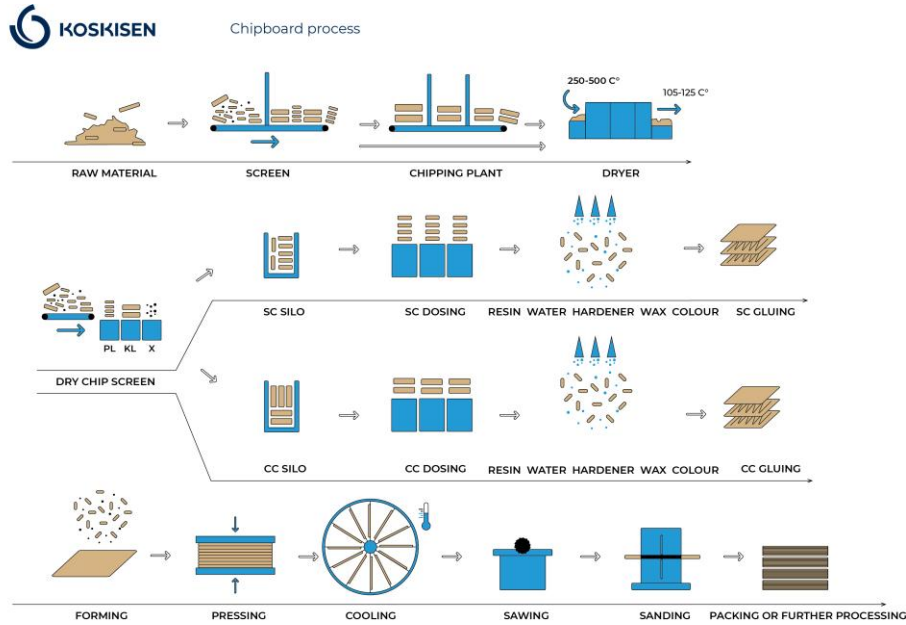
C1: Assumed energy consumption in demolition process is 7 kWh/m³.

C2: Transportation to the waste treatment is 50 km.

C3-4: According to Finnish statistic from 2019 wooden waste 93 % are burned and the rest 7 % is land filled. Burned with energy recovering.

D: The benefits of material incineration and recycling are counted in module D.

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.

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	No allocation
Ancillary materials	No allocation
Manufacturing energy and waste	No allocation

AVERAGES AND VARIABILITY

Type of average	Multiple products
Averaging method	Averaged by shares of total mass
Variation in GWP-fossil for A1-A3	0 %

The thickness and dimensions of the products may vary, but it does not affect any variety in the raw materials. Energy of the production has been gathered from the whole mill and those have been allocated according to the mass, no variety can be seen.

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 v3.8, Plastics Europe, Federal LCA Commons and One Click LCA databases as sources of environmental data.

ENVIRONMENTAL IMPACT DATA

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

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	-9,28E+02	2,42E+00	9,77E+01	-8,28E+02	1,40E+01	3,61E+01	MND	MND	MND	MND	MND	MND	MND	2,32E+00	3,29E+00	1,26E+03	5,60E-01	-4,14E+02
GWP – fossil	kg CO ₂ e	2,03E+02	2,42E+00	7,83E+01	2,84E+02	1,40E+01	1,16E+00	MND	MND	MND	MND	MND	MND	MND	2,32E+00	3,29E+00	1,86E+02	5,59E-01	-4,17E+02
GWP – biogenic	kg CO ₂ e	-1,13E+03	0,00E+00	1,90E+01	-1,11E+03	0,00E+00	3,49E+01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	1,08E+03	0,00E+00	3,08E+00
GWP – LULUC	kg CO ₂ e	4,24E-01	8,92E-04	4,19E-01	8,43E-01	5,12E-03	5,27E-03	MND	MND	MND	MND	MND	MND	MND	2,31E-04	1,21E-03	3,94E-03	5,79E-04	-6,61E-01
Ozone depletion pot.	kg CFC-11e	3,03E-05	5,56E-07	6,57E-06	3,74E-05	3,24E-06	1,73E-07	MND	MND	MND	MND	MND	MND	MND	4,95E-07	7,56E-07	1,01E-06	1,67E-07	-2,29E-05
Acidification potential	mol H ⁺ e	1,42E+00	1,02E-02	6,76E-01	2,11E+00	9,66E-02	6,53E-03	MND	MND	MND	MND	MND	MND	MND	2,41E-02	1,39E-02	1,23E-01	4,71E-03	-3,23E+00
EP-freshwater ²⁾	kg Pe	6,84E-03	1,98E-05	3,20E-03	1,01E-02	1,14E-04	2,90E-05	MND	MND	MND	MND	MND	MND	MND	7,67E-06	2,69E-05	1,58E-04	1,08E-05	-1,64E-02
EP-marine	kg Ne	1,93E-01	3,04E-03	2,30E-01	4,26E-01	3,72E-02	2,03E-03	MND	MND	MND	MND	MND	MND	MND	1,07E-02	4,14E-03	5,58E-02	3,11E-03	-3,80E-01
EP-terrestrial	mol Ne	3,73E+00	3,36E-02	2,56E+00	6,33E+00	4,09E-01	2,22E-02	MND	MND	MND	MND	MND	MND	MND	1,17E-01	4,56E-02	5,97E-01	1,75E-02	-4,46E+00
POCP (“smog”) ³⁾	kg NMVOCe	6,29E-01	1,07E-02	6,51E-01	1,29E+00	1,15E-01	6,32E-03	MND	MND	MND	MND	MND	MND	MND	3,21E-02	1,46E-02	1,47E-01	6,27E-03	-1,23E+00
ADP-minerals & metals ⁴⁾	kg Sbe	3,44E-03	5,67E-06	3,46E-04	3,79E-03	3,25E-05	3,87E-06	MND	MND	MND	MND	MND	MND	MND	1,17E-06	7,71E-06	3,87E-05	1,89E-06	-3,70E-04
ADP-fossil resources	MJ	3,82E+03	3,63E+01	1,59E+03	5,45E+03	2,11E+02	1,61E+01	MND	MND	MND	MND	MND	MND	MND	3,12E+01	4,94E+01	1,03E+02	1,28E+01	-5,29E+03
Water use ⁵⁾	m ³ e depr.	3,88E+02	1,62E-01	5,19E+01	4,40E+02	9,36E-01	1,71E-01	MND	MND	MND	MND	MND	MND	MND	8,38E-02	2,21E-01	4,46E+01	7,66E-02	-6,32E+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, PEF

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	2,17E-05	2,79E-07	1,51E-05	3,71E-05	1,99E-06	1,14E-07	MND	MND	MND	MND	MND	MND	MND	6,45E-07	3,79E-07	1,16E-06	9,43E-08	-3,06E-05
Ionizing radiation ⁶⁾	kBq 11235e	1,13E+01	1,73E-01	5,45E+01	6,59E+01	1,01E+00	1,16E-01	MND	MND	MND	MND	MND	MND	MND	1,43E-01	2,35E-01	2,87E-01	6,16E-02	-1,04E+02
Ecotoxicity (freshwater)	CTUe	3,88E+03	3,27E+01	3,57E+03	7,48E+03	1,89E+02	2,13E+01	MND	MND	MND	MND	MND	MND	MND	1,87E+01	4,44E+01	4,34E+02	1,30E+01	-9,82E+03
Human toxicity, cancer	CTUh	2,93E-07	8,02E-10	1,67E-07	4,61E-07	7,37E-09	8,26E-10	MND	MND	MND	MND	MND	MND	MND	7,18E-10	1,09E-09	2,77E-08	4,16E-10	-1,32E-07
Human tox. non-cancer	CTUh	2,74E-06	3,23E-08	1,84E-06	4,61E-06	2,19E-07	1,58E-08	MND	MND	MND	MND	MND	MND	MND	1,35E-08	4,40E-08	1,36E-06	1,32E-08	-4,02E-06
SQP ⁷⁾	-	6,51E+03	4,18E+01	7,25E+03	1,38E+04	2,40E+02	1,26E+01	MND	MND	MND	MND	MND	MND	MND	4,05E+00	5,69E+01	3,43E+01	3,08E+01	-3,66E+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	3,01E+03	4,09E-01	1,15E+03	4,16E+03	2,35E+00	7,97E-01	MND	MND	MND	MND	MND	MND	MND	1,78E-01	5,56E-01	3,12E+00	2,37E-01	-1,13E+03
Renew. PER as material	MJ	6,77E+03	0,00E+00	-1,68E+01	6,76E+03	0,00E+00	-3,06E+02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	-6,45E+03	0,00E+00	1,35E+02
Total use of renew. PER	MJ	9,78E+03	4,09E-01	1,13E+03	1,09E+04	2,35E+00	-3,05E+02	MND	MND	MND	MND	MND	MND	MND	1,78E-01	5,56E-01	-6,45E+03	2,37E-01	-9,92E+02
Non-re. PER as energy	MJ	3,23E+03	3,63E+01	1,56E+03	4,83E+03	2,11E+02	1,61E+01	MND	MND	MND	MND	MND	MND	MND	3,12E+01	4,94E+01	1,03E+02	1,28E+01	-5,28E+03
Non-re. PER as material	MJ	5,91E+02	0,00E+00	-2,34E+00	5,88E+02	0,00E+00	-2,58E+01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	-5,62E+02	0,00E+00	6,83E+00
Total use of non-re. PER	MJ	3,82E+03	3,63E+01	1,56E+03	5,42E+03	2,11E+02	-9,65E+00	MND	MND	MND	MND	MND	MND	MND	3,12E+01	4,94E+01	-4,60E+02	1,28E+01	-5,27E+03
Secondary materials	kg	8,81E-01	1,01E-02	2,15E+00	3,04E+00	5,79E-02	8,99E-03	MND	MND	MND	MND	MND	MND	MND	1,22E-02	1,37E-02	2,11E-01	4,57E-03	-1,52E-01
Renew. secondary fuels	MJ	5,39E-03	1,02E-04	1,09E+01	1,09E+01	5,85E-04	1,06E-04	MND	MND	MND	MND	MND	MND	MND	3,99E-05	1,38E-04	1,31E-03	1,75E-04	8,60E-03
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	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	2,23E+00	4,70E-03	1,63E+00	3,87E+00	2,71E-02	3,54E-03	MND	MND	MND	MND	MND	MND	MND	1,89E-03	6,39E-03	1,03E-01	1,37E-02	-4,17E+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	8,46E+00	4,81E-02	8,35E+00	1,69E+01	2,78E-01	5,67E-02	MND	MND	MND	MND	MND	MND	MND	4,17E-02	6,55E-02	0,00E+00	0,00E+00	-3,26E+01
Non-hazardous waste	kg	2,05E+02	7,91E-01	1,03E+02	3,08E+02	4,56E+00	1,20E+00	MND	MND	MND	MND	MND	MND	MND	2,93E-01	1,08E+00	6,49E+02	5,19E+01	-1,31E+03
Radioactive waste	kg	9,12E-03	2,43E-04	1,28E-02	2,22E-02	1,42E-03	9,36E-05	MND	MND	MND	MND	MND	MND	MND	2,19E-04	3,30E-04	0,00E+00	0,00E+00	-2,97E-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	MND	MND	MND	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	6,24E+01	6,24E+01	0,00E+00	2,26E+01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for energy rec	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	6,07E+03	0,00E+00	0,00E+00

ENVIRONMENTAL IMPACTS – FRENCH NATIONAL COMPLEMENTS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
ADP-elements	kg Sbe	3,44E-03	5,49E-06	3,36E-04	3,78E-03	3,15E-05	3,79E-06	MND	MND	MND	MND	MND	MND	MND	1,16E-06	7,46E-06	3,17E-05	1,82E-06	-3,70E-04
Hazardous waste disposed	kg	7,35E+00	4,81E-02	8,35E+00	1,57E+01	2,78E-01	5,67E-02	MND	MND	MND	MND	MND	MND	MND	4,17E-02	6,55E-02	0,00E+00	0,00E+00	-3,26E+01
Non-haz. waste disposed	kg	2,02E+02	7,91E-01	1,03E+02	3,05E+02	4,56E+00	1,20E+00	MND	MND	MND	MND	MND	MND	MND	2,93E-01	1,08E+00	6,49E+02	5,19E+01	-1,31E+03
Air pollution	m ³	3,39E+04	4,34E+02	2,86E+04	6,29E+04	2,66E+03	3,31E+02	MND	MND	MND	MND	MND	MND	MND	3,18E+02	5,90E+02	2,80E+03	1,42E+02	-1,60E+05
Water pollution	m ³	3,29E+02	2,56E+00	3,62E+02	6,93E+02	1,48E+01	3,32E+00	MND	MND	MND	MND	MND	MND	MND	1,38E+00	3,48E+00	2,70E+02	1,06E+02	-9,09E+02

ENVIRONMENTAL IMPACTS – BEPALINGSMETODE, NETHERLANDS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Shadow price	€	3,27E+01	3,17E-01	1,58E+01	4,88E+01	2,00E+00	2,19E-01	MND	MND	MND	MND	MND	MND	MND	3,69E-01	4,31E-01	1,17E+01	1,64E+00	-6,95E+01
Terrestrial ecotoxicity	DCB eq	4,62E-01	7,05E-03	8,82E-01	1,35E+00	4,16E-02	4,21E-03	MND	MND	MND	MND	MND	MND	MND	3,01E-03	9,58E-03	1,78E-01	2,23E-03	-1,80E+00
Seawater ecotoxicity	DCB eq	5,40E+04	3,74E+02	3,45E+04	8,89E+04	2,16E+03	3,91E+02	MND	MND	MND	MND	MND	MND	MND	1,56E+02	5,08E+02	5,38E+03	4,03E+02	-1,99E+05
Freshwater ecotoxicity	DCB eq	4,22E+00	4,15E-02	2,28E+00	6,55E+00	2,64E-01	1,80E-02	MND	MND	MND	MND	MND	MND	MND	2,08E-02	5,65E-02	2,38E-01	9,67E-03	-3,90E+00
Human ecotoxicity	DCB eq	1,07E+02	1,19E+00	4,99E+01	1,58E+02	6,89E+00	9,11E-01	MND	MND	MND	MND	MND	MND	MND	1,45E+00	1,61E+00	6,77E+00	4,99E-01	-1,33E+02
EEE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	9,14E+02	0,00E+00	0,00E+00
ETE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	5,16E+03	0,00E+00	0,00E+00
ADP Fossil Fuels	kg Sbe	1,84E+00	1,75E-02	7,37E-01	2,59E+00	1,02E-01	7,76E-03	MND	MND	MND	MND	MND	MND	MND	1,50E-02	2,37E-02	4,95E-02	6,14E-03	-2,49E+00

VERIFICATION STATEMENT

VERIFICATION PROCESS FOR THIS EPD

This EPD has been verified in accordance with ISO 14025 by an independent, third-party verifier by reviewing results, documents and compliancy with reference standard, ISO 14025 and ISO 14040/14044, following the process and checklists of the program operator for:

- This Environmental Product Declaration
- The Life-Cycle Assessment used in this EPD
- The digital background data for this EPD

Why does verification transparency matter? Read more online

This EPD has been generated by One Click LCA EPD generator, which has been verified and approved by the EPD Hub.

THIRD-PARTY VERIFICATION STATEMENT

I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Environmental Product Declaration (EPD), its LCA and project report, in terms of the data collected and used in the LCA calculations, the way the LCA-based calculations have been carried out, the presentation of environmental data in the EPD, and other additional environmental information, as present with respect to the procedural and methodological requirements in ISO 14025:2010 and reference standard.

I confirm that the company-specific data has been examined as regards plausibility and consistency; the declaration owner is responsible for its factual integrity and legal compliance.

I confirm that I have sufficient knowledge and experience of construction products, this specific product category, the construction industry, relevant standards, and the geographical area of the EPD to carry out this verification.

I confirm my independence in my role as verifier; I have not been involved in the execution of the LCA or in the development of the declaration and have no conflicts of interest regarding this verification.

Imane Uald lamkaddam, as an authorized verifier acting for EPD Hub Limited
29.01.2025

