



ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

T-ROOF YEM 1000

TECCA AB



EPD HUB, HUB-3780

Published on 08.08.2025, last updated on 08.08.2025, valid until 07.08.2030

Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804, EPD Hub PCR version 1.1 (5 Dec 2023) and JRC characterization factors EF 3.1.



Created with One Click LCA

GENERAL INFORMATION

MANUFACTURER

Manufacturer	TECCA AB
Address	Nydalavägen 14, 574 35 Vetlanda, Sweden
Contact details	johan.nyman@teccaworld.com
Website	www.teccaworld.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
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Miia Kuhlman, Katepal Oy
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	Sarah Curpen, as an authorized 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	T-Roof YEM 1000
Place(s) of raw material origin	Global
Place of production	Lempäälä, Finland
Place(s) of installation and use	Finland
Period for data	Calendar year 2024
Averaging in EPD	No averaging
Variation in GWP-fossil for A1-A3 (%)	-
GTIN (Global Trade Item Number)	-
NOBB (Norwegian Building Product Database)	-

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 m ² of T-Roof YEM 1000
Declared unit mass	1,015 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	1,18E+00
GWP-total, A1-A3 (kgCO ₂ e)	1,10E+00
Secondary material, inputs (%)	0,15
Secondary material, outputs (%)	0
Total energy use, A1-A3 (kWh)	4,16
Net freshwater use, A1-A3 (m ³)	0,01

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

TECCA AB is a Nordic market leader developing premium solutions for building material retailers and prefabricated housing industry with focus on climate shell and protective products. Product solutions are developed from the perspective of high standards within extensive quality assurance and testing processes. The total offer also contains customized supply chain and logistics solutions. TECCA AB is owned by Volati – a Swedish industrial group formed in 2003. Product-related or management system-related certifications: TECCA AB maintains ISO 9001 and 14001 certificates. For additional information about TECCA, please visit the company web site at www.teccaworld.com/

PRODUCT DESCRIPTION

T-Roof YEM 1000 is a fabric covered bitumen membrane for roof waterproofing. The product is used as an underlay on solid wood surfaces, when the top layer is either bitumen waterproofing membrane or bitumen shingles. The product is installed by mechanical fasteners and products adhesive edges with 10 cm overlapping of the product. Effective roof coverage of 1 m² of product is 0,9 m².

T-Roof YEM 1000 is made of SBS- modified bitumen and reinforced with a glass fiber felt. Surfaces of the product are covered with polypropylene fabric.

Bitumen waterproofing membranes provide good and durable protection against water penetration.

Further information can be found at www.teccaworld.com/

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	-	-
Minerals	45-60	EU
Fossil materials	40-55	EU
Bio-based materials	-	-

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0
Biogenic carbon content in packaging, kg C	0,024

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 m ² of T-Roof YEM 1000
Mass per declared unit	1,015 kg
Functional unit	N/A
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).

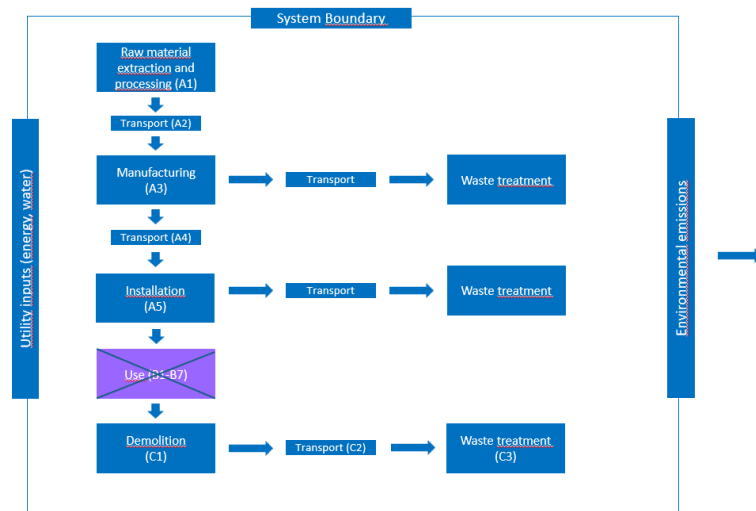
PRODUCT LIFE-CYCLE

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	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.

The bitumen is generally delivered as hot from the petroleum refinery to the manufacturing site, where it's heated further for the processing. The manufacturing is done by heating the raw materials (bitumen and copolymers) to a specific temperature and mixing them. The glass fiber felt acting as a reinforcing structure is impregnated and coated with this bitumen mix. The resulting sheet is then faced with polypropylene fabrics and protective films on the adhesive edges. After cooling the product is cut to the right length, rolled, wrapped with paper and placed on a wooden pallet. The pallet is wrapped with PE-film for storage and transportation.

The use of green energy in manufacturing is demonstrated through contractual instruments (GOs, RECs, etc.), 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.

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.

Freight mode and distances for transportation from production site to the construction site has been approached by the most probable scenario based on the annual sales volume of the product. The most probable scenario for transportation distance is 480 km with lorry and 300 km with ferry. Vehicle capacity utilization volume factor is assumed to be 1 which means full load. In reality, it may vary, but as the role of transportation emissions in total results is small, the variety in load is assumed to be negligible. Empty returns are not considered as it is assumed that return trips are used by the transportation company to serve the needs of other clients. Transportation does not cause losses as products are packaged properly. Also, volume capacity utilization factor is assumed to be 1 for the nested packaged products.

Installation of the product is done by overlapping the product at the self-adhesive edges, and also horizontal overlapping is necessary for the watertightness of the construction. The amount of the extra material needed for the overlapping depends on the shape and size of the roof. The extra material needed for the overlapping in installation is not considered in this EPD, since the declared unit is 1 m² of product, but needs to be considered when calculating emissions of roof structures. Mechanical fasteners are needed for the installation, but because the amount and type of mechanical fasteners needed depends on the substrate and the alignment of the product, they are excluded from calculation. The installation loss is assumed to be low, 1,5%.

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)

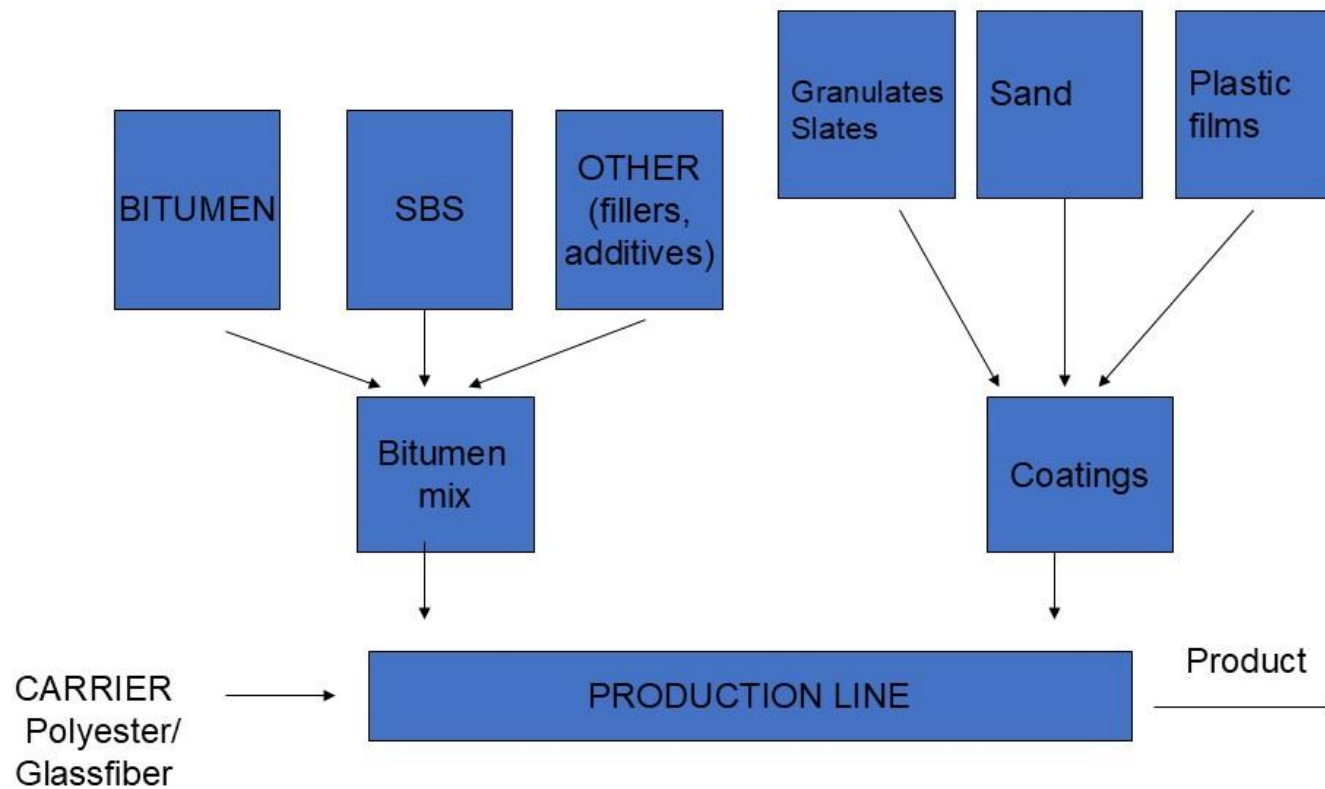
At the end of life, in the demolition phase 100% of the waste is assumed to be collected as separate construction waste. The consumption of energy and

natural resources is negligible for disassembling of the end-of-life product, as demolition of bitumen membrane roofing is assumed to be done either manually or with a powered cutter. The impacts of demolition are assumed to be zero (C1).

The bitumen roofing is delivered to the nearest construction waste treatment plant. It is estimated that there is no mass loss during the use of the product, therefore, the end-of-life product is assumed to have the same weight as the declared product. All of the end-of-life product is assumed to be sent to the closest facility for waste treatment. Transportation distance to the closest waste treatment facility is estimated as 50 km and the transportation method is lorry which is the most common (C2). The End-of-life scenario for 100% of the product in this study is incineration. Energy recovered from the combustion of bitumen roofing replaces the use of fossil fuels in energy production which is assumed to be oil. (D). The calculation assumes that the waste incineration plant has co-generation of electricity and heat.

MANUFACTURING PROCESS

MANUFACTURING PROCESS AS DESCRIBED IN A3



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 are no neglected unit processes that make up 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 study includes modules A1-A3, A4-A5, C1-C4 and D. The use stage B1-B7 is excluded. For easier modelling and because of lack of accuracy in data and available modelling resources few constituents under 0,1% of product mass are excluded. These include some ancillary packaging and a minor constituent of bitumen adhesive in the product, that have no serious impact on the emissions of the product. Excluded modules are use stage modules (B1-B7), which are not mandatory according to the PCR. The life cycle analysis includes all industrial processes from raw material acquisition to production, distribution and end-of-life stages. 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/AC2021 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 made according to 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	Not applicable
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 (%)	Not applicable

This EPD is product and factory specific and does not contain average calculations.

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 ₂ e	8,82E-01	5,74E-02	1,62E-01	1,10E+00	1,38E-01	1,52E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	9,64E-03	2,41E+00	0,00E+00	-8,84E-01
GWP – fossil	kg CO ₂ e	8,79E-01	5,73E-02	2,48E-01	1,18E+00	1,38E-01	6,60E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	9,63E-03	2,41E+00	0,00E+00	-8,81E-01
GWP – biogenic	kg CO ₂ e	2,52E-03	0,00E+00	-8,63E-02	-8,38E-02	0,00E+00	8,63E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,94E-06	-2,55E-03	0,00E+00	-2,65E-03
GWP – LULUC	kg CO ₂ e	5,06E-04	2,16E-05	1,97E-04	7,25E-04	5,38E-05	1,42E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,46E-06	4,61E-05	0,00E+00	-1,16E-03
Ozone depletion pot.	kg CFC-11e	1,36E-08	1,13E-09	2,64E-09	1,74E-08	2,53E-09	3,81E-10	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,92E-10	1,76E-09	0,00E+00	-9,24E-09
Acidification potential	mol H ⁺ e	3,61E-03	2,14E-04	3,50E-04	4,18E-03	1,45E-03	1,30E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,00E-05	8,54E-04	0,00E+00	-5,93E-03
EP-freshwater ²⁾	kg Pe	9,71E-05	3,77E-06	2,26E-05	1,23E-04	7,68E-06	2,74E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	6,49E-07	1,21E-05	0,00E+00	-5,25E-04
EP-marine	kg Ne	7,05E-04	5,46E-05	9,14E-05	8,51E-04	3,92E-04	3,41E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,81E-06	2,49E-04	0,00E+00	-8,33E-04
EP-terrestrial	mol Ne	7,70E-03	5,97E-04	9,12E-04	9,20E-03	4,32E-03	3,53E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,19E-05	2,31E-03	0,00E+00	-8,33E-03
POCP (“smog”) ³⁾	kg NMVOce	4,04E-03	2,72E-04	4,02E-04	4,71E-03	1,35E-03	1,34E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,33E-05	6,20E-04	0,00E+00	-2,61E-03
ADP-minerals & metals ⁴⁾	kg Sbe	3,28E-06	1,76E-07	3,80E-07	3,84E-06	3,59E-07	8,19E-08	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,21E-08	3,52E-07	0,00E+00	-7,83E-07
ADP-fossil resources	MJ	3,48E+01	8,10E-01	1,66E+00	3,72E+01	1,86E+00	6,40E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,36E-01	5,93E-01	0,00E+00	-1,31E+01
Water use ⁵⁾	m ³ e depr.	1,69E-01	3,98E-03	3,51E-02	2,08E-01	8,06E-03	6,15E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	6,74E-04	7,33E-02	0,00E+00	-2,31E-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	3,16E-08	4,43E-09	3,89E-09	4,00E-08	8,92E-09	1,10E-09	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,10E-10	5,84E-09	0,00E+00	-5,18E-08
Ionizing radiation ⁶⁾	kBq I1235e	2,92E-02	9,96E-04	5,99E-03	3,62E-02	1,97E-03	6,87E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,75E-04	1,71E-03	0,00E+00	-2,30E-01
Ecotoxicity (freshwater)	CTUe	1,62E+01	1,02E-01	3,27E-01	1,67E+01	2,16E-01	2,76E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,80E-02	4,10E-01	0,00E+00	-1,56E+00
Human toxicity, cancer	CTUh	7,38E-10	9,74E-12	8,40E-11	8,31E-10	2,48E-11	1,72E-11	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,62E-12	1,09E-10	0,00E+00	-1,75E-10
Human tox. non-cancer	CTUh	1,01E-08	5,01E-10	7,53E-10	1,13E-08	9,87E-10	3,45E-10	MND	MND	MND	MND	MND	MND	MND	0,00E+00	8,57E-11	2,01E-09	0,00E+00	-7,36E-09
SQP ⁷⁾	-	1,47E+00	5,51E-01	7,38E+00	9,40E+00	8,65E-01	1,86E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	8,19E-02	3,08E-01	0,00E+00	-6,04E+00

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+00	1,36E-02	8,44E-01	2,06E+00	2,73E-02	-8,22E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,37E-03	2,78E-02	0,00E+00	-2,91E+00
Renew. PER as material	MJ	0,00E+00	0,00E+00	7,95E-01	7,95E-01	0,00E+00	-7,95E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,41E-02
Total use of renew. PER	MJ	1,21E+00	1,36E-02	1,64E+00	2,86E+00	2,73E-02	-1,62E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,37E-03	2,78E-02	0,00E+00	-2,89E+00
Non-re. PER as energy	MJ	1,31E+01	8,10E-01	-1,01E+00	1,29E+01	1,86E+00	-4,68E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,36E-01	-3,00E+01	0,00E+00	-1,31E+01
Non-re. PER as material	MJ	2,19E+01	0,00E+00	3,72E-01	2,22E+01	0,00E+00	-3,72E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	-2,19E+01	0,00E+00	4,23E-04
Total use of non-re. PER	MJ	3,50E+01	8,10E-01	-6,40E-01	3,51E+01	1,86E+00	-8,39E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,36E-01	-5,19E+01	0,00E+00	-1,31E+01
Secondary materials	kg	1,56E-03	3,71E-04	5,74E-03	7,67E-03	8,43E-04	1,87E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	6,29E-05	4,71E-04	0,00E+00	-3,06E-03
Renew. secondary fuels	MJ	3,52E-05	4,48E-06	1,84E-02	1,84E-02	8,52E-06	2,77E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,96E-07	5,13E-06	0,00E+00	1,01E-04
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	4,67E-03	1,10E-04	9,27E-04	5,71E-03	2,17E-04	1,25E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,85E-05	1,25E-03	0,00E+00	-1,01E-02

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	2,58E-02	1,17E-03	8,88E-03	3,59E-02	2,57E-03	2,15E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,97E-04	6,67E-02	0,00E+00	-6,86E-02
Non-hazardous waste	kg	1,38E+00	2,40E-02	3,42E-01	1,75E+00	4,99E-02	9,69E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,16E-03	1,54E+00	0,00E+00	-2,53E+00
Radioactive waste	kg	1,01E-04	2,47E-07	1,51E-06	1,03E-04	4,88E-07	1,58E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,34E-08	4,45E-07	0,00E+00	-5,90E-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	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	2,04E-03	0,00E+00	7,82E-03	9,86E-03	0,00E+00	1,66E-02	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	3,44E-04	0,00E+00	6,73E-02	6,76E-02	0,00E+00	1,01E-03	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	4,32E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	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	1,42E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	3,63E+00	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	2,90E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	7,58E+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 ₂ e	8,79E-01	5,74E-02	2,49E-01	1,19E+00	1,38E-01	6,60E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	9,64E-03	2,41E+00	0,00E+00	-8,82E-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.

THIRD-PARTY VERIFICATION STATEMENT

EPD Hub declares that this EPD is verified in accordance with ISO 14025 by an independent, third-party verifier and has been generated using a pre-verified tool. 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, by the Environmental Product Declaration and by its project report from the requirements outlined in the corresponding product category regulations based on EN 15804+A2.

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. EPD Hub confirms that it possesses sufficient knowledge and experience in construction products and the relevant standards to carry the 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 authorized verifier acting for EPD Hub Limited
08.08.2025

