ENVIRONMENTAL PRODUCT DECLARATION

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

Oriented Strand Board (OSB)

Kronospan Bulgaria EOOD Burgas

EPD HUB, HUB-2466

Publishing date 30 April 2025, last updated on 30 April 2025, valid until 29 April 2030.

Created with One Click LCA

Making circularity a reality

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Kronospan Bulgaria EOOD Burgas
Address	Severozapadna Promishlena Zona BG - 8000, Burgas, Bulgaria
Contact details	sustainability@kronospan.co.uk
Website	https://kronospan.com/en_BG

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804+A2:2019 und 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	-
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD authors	Sam Beverley & Dan Grantham
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	Magaly González Vázquez, as an authorized verifier acting for EPD Hub Limited

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	Oriented Strand Board (OSB)
Additional labels	-
Product reference	-
Place of production	Severozapadna Promishlena Zona BG - 8000, Burgas, Bulgaria
Period for data	October 2021 - September 2022
Averaging in EPD	No averaging
Variation in GWP-fossil for A1-A3	-

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 m3
Declared unit mass	659.35 kg
GWP-fossil, A1-A3 ($kgCO_2e$)	282
GWP-total, A1-A3 ($kgCO_2e$)	-1127
Secondary material, inputs (%)	0.1
Secondary material, outputs (%)	31
Total energy use, A1-A3 (kWh)	3470
Net freshwater use, A1-A3 (m^3)	2.84

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Kronospan Bulgaria EOOD was established in 1997 in Burgas. The company currently manages production facilities in Burgas and Veliko Tarnovo, 1 logistics center in Sofia, 3 recycling depots in Sofia, Plovdiv and Varna and a design center in Sofia.

Kronospan Bulgaria is a leading supplier of wooden materials and accessories for furniture companies in Bulgaria and the region. The company has a tradition of supplying the best furniture companies and has a successful partnership with a network of distributors in the country and abroad.

More than 500 people work directly in Kronospan Bulgaria. Indirectly, approximately 10 times more people are engaged with the company under concluded contracts for extraction and supply of timber, repair works, maintenance, transport, forwarding and other services.

The location of the production bases and logistics centres on the territory of Bulgaria, geographically defined as the crossroads between the west and the east, as well as the presence of international railways and roads and international ports, allows easy fulfilment and delivery of international requests.

All our timber is 100% legal traceable according BG legislation and more than 51% of it is FSC certified. All produced boards meet the E1 Formaldehyde standard. The manufactured products are created with the latest production technologies and in accordance with the requirements of our ISO 14001 certificate with attention to the environment and the natural resources used.

PRODUCT DESCRIPTION

Oriented Strand Board (OSB) are wooden panels made from oriented wood strands connected by resin, in range of thickness 6-25 mm. OSB is developed and manufactured entirely in compliance with the current demand of ecological living focused on organic materials.

OSB is versatile wood panel that is primarily used by the construction industry to provide lightweight and high strength structural panels

Key selling points:

- 1 m3 OSB stores over 1 ton CO2e;
- Fully recyclable;
- Strong material, in the same time it is light/lower transport costs;
- It has good bending strength and elasticity;
- Natural insulator;
- Easy for processing.

Specific product range of OSB:

- thicknesses – 6-25 mm,
- lengths – 2440 – 2500 mm,
- widths – 1220 – 1250 mm,
- Special produced OSB3 - moisture resistant.

Further information can be found at https://kronospan.com/en_BG.

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	-	-
Minerals	-	-
Fossil materials	5.83	Global
Bio-based materials	89.17	BG

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	378.92 kg C
Biogenic carbon content in packaging, kg C	5.58 kg C

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 m3
Mass per declared unit	659.35 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.

A1: Raw Materials

Oriented Strand Board (OSB) at the Burgas site is produced from softwood flakes and connecting components (PMDI resin). The softwood flakes are made onsite from fresh softwood timber sourced in Bulgaria, and the resins are also sourced from Bulgaria as a pre-made mixture. Other minor hardeners and additives are sourced from other countries in the EU.

A2: Transport to Manufacturer

All raw materials reach the site by road.

A3: Manufacturing

Ancillary water is sourced from and returned to the local water network in accordance with local standards and agreement. Electricity is sourced from the local grid network, and heat is provided primarily by our onsite biomass boiler (fuelled with site waste), though it is supplemented with a natural gas fired boiler. As the resin comes pre-prepared, the only process wastes are from strand preparation. Unsuitable wood input, and waste materials from the production line are sent to the boiler as fuel, resulting in wood ash residue.

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 to Site

Finished OSB is sent to customers in Europe with an average transport distance of 977km by 32t lorry, and 23km by container ship.

A5: Installation at Site
OSB is a basic structural material that can be installed in construction or furnishings without any modification or power use. However, OSB is often modified bespoke to the installation site. These modifications are not well-quantified, so modelling this modification is unhelpful. Therefore A5 has been modelled as requiring nothing more than the disposal of packaging by standard EU municipal disposal routes.

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: Deconstruction/Demolition
Manual deconstruction generating no loads

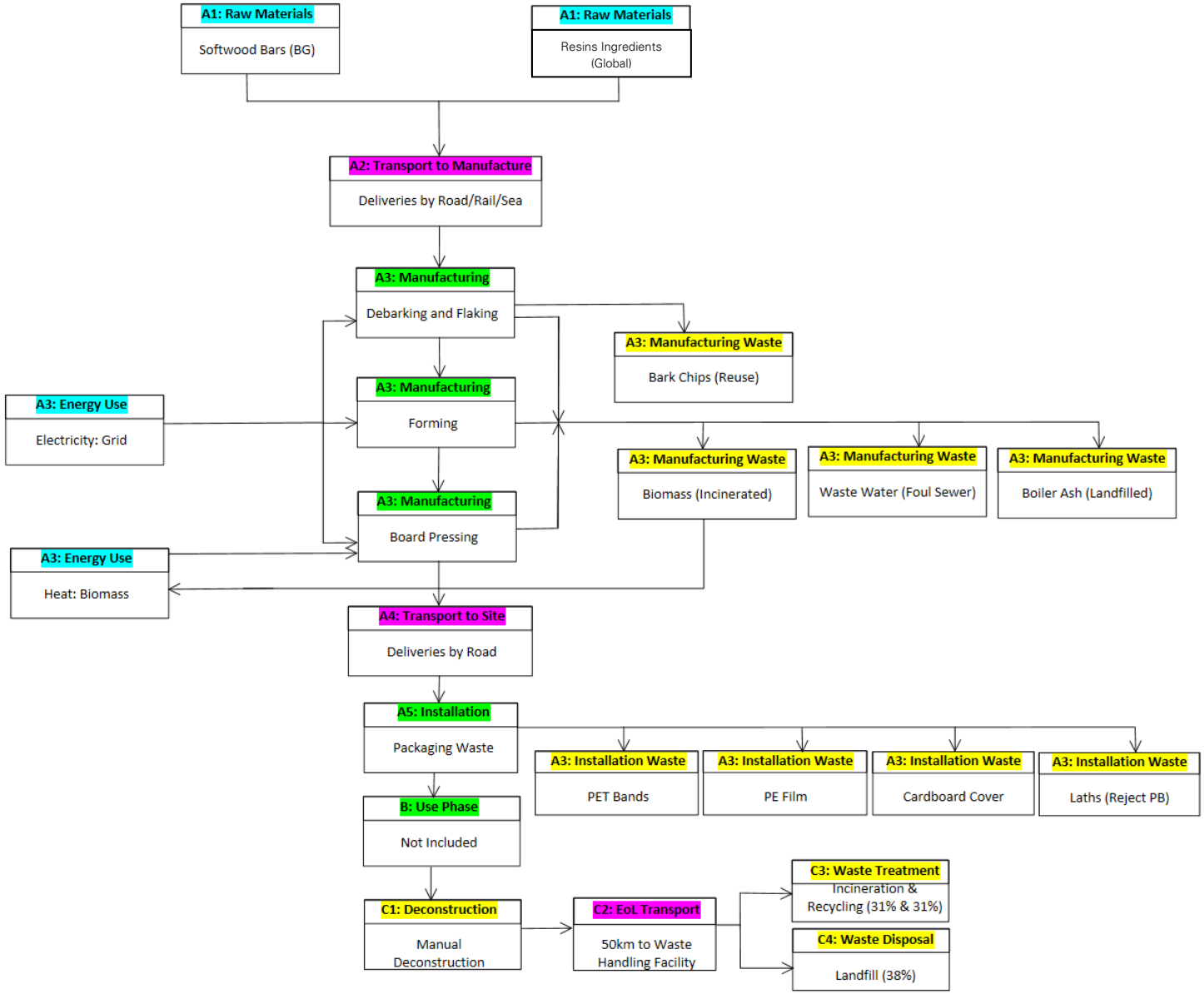
C2: Transfer to Waste Facility
It is modelled that the waste product travels no further than 50km by 32t lorry

C3: Waste Treatment
Waste treatment is modelled as the standard EU pathway for waste wood material (31% recycled, 31% incinerated with energy recovery), as indicated by EuroStat

C4: Disposal
38% of the material is sent to landfill in the standard EU pathway for waste wood.

Module D: External Benefits & Loads
In Module D the energy benefits of municipal incineration are modelled, as well as the avoided wood chip production from the recycling. Diesel used for wood chipping is modelled as a load.

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	Allocated by mass or volume
Manufacturing energy and waste	Allocated by mass or volume

AVERAGES AND VARIABILITY

Type of average	No averaging
Averaging method	Not applicable
Variation in GWP-fossil for A1-A3	-

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 v3.8, 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_2e	-1,27E+03	3,58E+01	1,07E+02	-1,13E+03	6,04E+01	2,08E+01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,97E+00	8,66E+02	5,31E+02	1,12E+02
GWP – fossil	kg CO_2e	1,19E+02	3,57E+01	1,27E+02	2,82E+02	6,04E+01	3,68E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,97E+00	4,82E+00	2,70E+00	-1,79E+02
GWP – biogenic	kg CO_2e	-1,39E+03	0,00E+00	-2,05E+01	-1,41E+03	0,00E+00	2,05E+01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	8,61E+02	5,28E+02	2,91E+02
GWP – LULUC	kg CO_2e	4,00E-01	1,39E-02	2,19E-01	6,33E-01	2,34E-02	2,02E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,15E-03	4,84E-03	2,80E-03	-3,52E-01
Ozone depletion pot.	kg CFC_{-11}e	1,66E-05	8,40E-06	6,32E-06	3,13E-05	1,42E-05	2,61E-08	MND	MND	MND	MND	MND	MND	MND	0,00E+00	6,97E-07	3,02E-07	8,04E-07	-1,14E-05
Acidification potential	mol H^+e	7,11E-01	1,18E-01	1,09E+00	1,92E+00	1,98E-01	1,49E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	9,66E-03	4,25E-02	2,28E-02	-1,43E+00
EP-freshwater[2)]	kg Pe	3,76E-03	3,02E-04	2,13E-02	2,53E-02	5,12E-04	8,19E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,51E-05	2,15E-04	5,20E-05	-1,10E-02
EP-marine	kg Ne	1,33E-01	2,66E-02	2,50E-01	4,09E-01	4,40E-02	2,25E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,12E-03	1,71E-02	1,50E-02	-2,23E-01
EP-terrestrial	mol Ne	2,07E+00	2,96E-01	2,73E+00	5,10E+00	4,89E-01	4,56E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,36E-02	1,83E-01	8,46E-02	-2,57E+00
POCP ("smog")[3)]	kg NMVOCe	4,58E-01	1,13E-01	7,92E-01	1,36E+00	1,88E-01	1,60E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	9,12E-03	4,56E-02	3,03E-02	-7,38E-01
ADP-minerals & metals[4)]	kg Sbe	1,26E-03	8,69E-05	4,36E-04	1,78E-03	1,47E-04	2,95E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,22E-06	1,32E-05	9,12E-06	-2,17E-04
ADP-fossil resources	MJ	2,43E+03	5,59E+02	2,34E+03	5,33E+03	9,46E+02	2,96E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,64E+01	6,18E+01	6,17E+01	-2,22E+03
Water use[5)]	m^3e depr.	1,30E+02	2,49E+00	5,37E+01	1,86E+02	4,22E+00	1,53E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,07E-01	1,46E+01	3,70E-01	-5,06E+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	8,78E-06	4,07E-06	4,78E-05	6,07E-05	6,87E-06	2,19E-08	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,37E-07	3,92E-07	4,55E-07	-2,29E-05
Ionizing radiation[6]	kBq U235e	4,14E+00	2,67E+00	5,25E+01	5,94E+01	4,53E+00	2,89E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,22E-01	9,89E-01	2,97E-01	-2,75E+01
Ecotoxicity (freshwater)	CTUe	1,36E+03	4,97E+02	4,38E+03	6,24E+03	8,41E+02	1,56E+01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,13E+01	7,07E+01	6,26E+01	-4,28E+03
Human toxicity, cancer	CTUh	5,25E-08	1,22E-08	1,12E-07	1,76E-07	2,06E-08	5,66E-10	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,01E-09	9,91E-09	2,01E-09	-8,65E-08
Human tox. non-cancer	CTUh	1,14E-06	4,79E-07	4,71E-06	6,33E-06	8,10E-07	1,27E-08	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,98E-08	4,49E-07	6,36E-08	-2,70E-06
SQP[7]	-	9,05E+04	6,43E+02	1,24E+04	1,04E+05	1,09E+03	2,93E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,34E+01	1,40E+01	1,49E+02	-3,26E+04

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	5,10E+03	6,29E+00	2,41E+03	7,52E+03	1,06E+01	2,16E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,23E-01	6,73E+00	1,14E+00	-3,37E+03
Renew. PER as material	MJ	1,07E+04	0,00E+00	1,80E+02	1,08E+04	0,00E+00	-1,80E+02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	-6,61E+03	-4,05E+03	0,00E+00
Total use of renew. PER	MJ	1,58E+04	6,29E+00	2,59E+03	1,84E+04	1,06E+01	-1,80E+02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,23E-01	-6,60E+03	-4,05E+03	-3,37E+03
Non-re. PER as energy	MJ	2,06E+03	5,59E+02	2,34E+03	4,96E+03	9,46E+02	2,96E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,65E+01	6,17E+01	6,17E+01	-2,21E+03
Non-re. PER as material	MJ	6,20E+02	0,00E+00	2,41E+00	6,23E+02	0,00E+00	-2,41E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	-3,85E+02	-2,36E+02	0,00E+00
Total use of non-re. PER	MJ	2,68E+03	5,59E+02	2,34E+03	5,58E+03	9,46E+02	5,52E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,65E+01	-3,23E+02	-1,74E+02	-2,21E+03
Secondary materials	kg	6,55E-01	1,55E-01	1,82E+01	1,90E+01	2,62E-01	4,80E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,29E-02	7,74E-02	2,20E-02	-5,25E-01
Renew. secondary fuels	MJ	3,99E-03	1,56E-03	6,59E-01	6,65E-01	2,65E-03	2,62E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,30E-04	1,72E-04	8,46E-04	-2,84E-02
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	1,63E+00	7,21E-02	1,13E+00	2,84E+00	1,22E-01	1,83E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	6,00E-03	-1,38E-02	6,60E-02	-1,58E+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	7,22E+00	7,36E-01	4,49E+00	1,24E+01	1,25E+00	4,98E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	6,12E-02	1,44E-01	0,00E+00	-1,37E+01
Non-hazardous waste	kg	1,65E+02	1,21E+01	9,35E+02	1,11E+03	2,04E+01	2,10E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,00E+00	2,12E+02	2,51E+02	-8,26E+02
Radioactive waste	kg	8,80E-03	3,76E-03	1,44E-02	2,69E-02	6,37E-03	1,41E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,13E-04	2,52E-04	0,00E+00	-1,05E-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	1,37E+02	1,37E+02	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	2,66E+02	2,66E+02	0,00E+00	8,03E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	2,04E+02	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	8,21E-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	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,17E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	1,08E+03	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	1,19E+02	3,54E+01	1,27E+02	2,81E+02	5,98E+01	1,31E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,94E+00	4,65E+00	1,89E+01	-1,76E+02
Ozone depletion Pot.	kg CFC_{-11}e	1,32E-05	6,65E-06	5,27E-06	2,51E-05	1,13E-05	2,14E-08	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,52E-07	2,61E-07	6,38E-07	-9,28E-06
Acidification	kg SO_2e	5,25E-01	9,57E-02	8,67E-01	1,49E+00	1,61E-01	1,15E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,84E-03	3,11E-02	1,73E-02	-1,19E+00
Eutrophication	kg PO_4^3e	1,26E-01	2,10E-02	7,42E-01	8,88E-01	3,52E-02	1,06E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,71E-03	3,31E-02	7,21E-01	-3,90E-01
POCP (“smog”)	kg C_2H_4e	3,63E-02	4,37E-03	6,71E-02	1,08E-01	7,37E-03	2,84E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,61E-04	1,10E-03	4,19E-03	-6,22E-02
ADP-elements	kg Sbe	1,26E-03	8,44E-05	4,18E-04	1,76E-03	1,43E-04	2,91E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,02E-06	1,22E-05	8,80E-06	-2,14E-04
ADP-fossil	MJ	2,43E+03	5,59E+02	2,34E+03	5,33E+03	9,46E+02	2,96E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,64E+01	6,17E+01	6,16E+01	-2,21E+03

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.

Magaly González Vázquez, as an authorized verifier acting for EPD Hub Limited
30.04.2025