

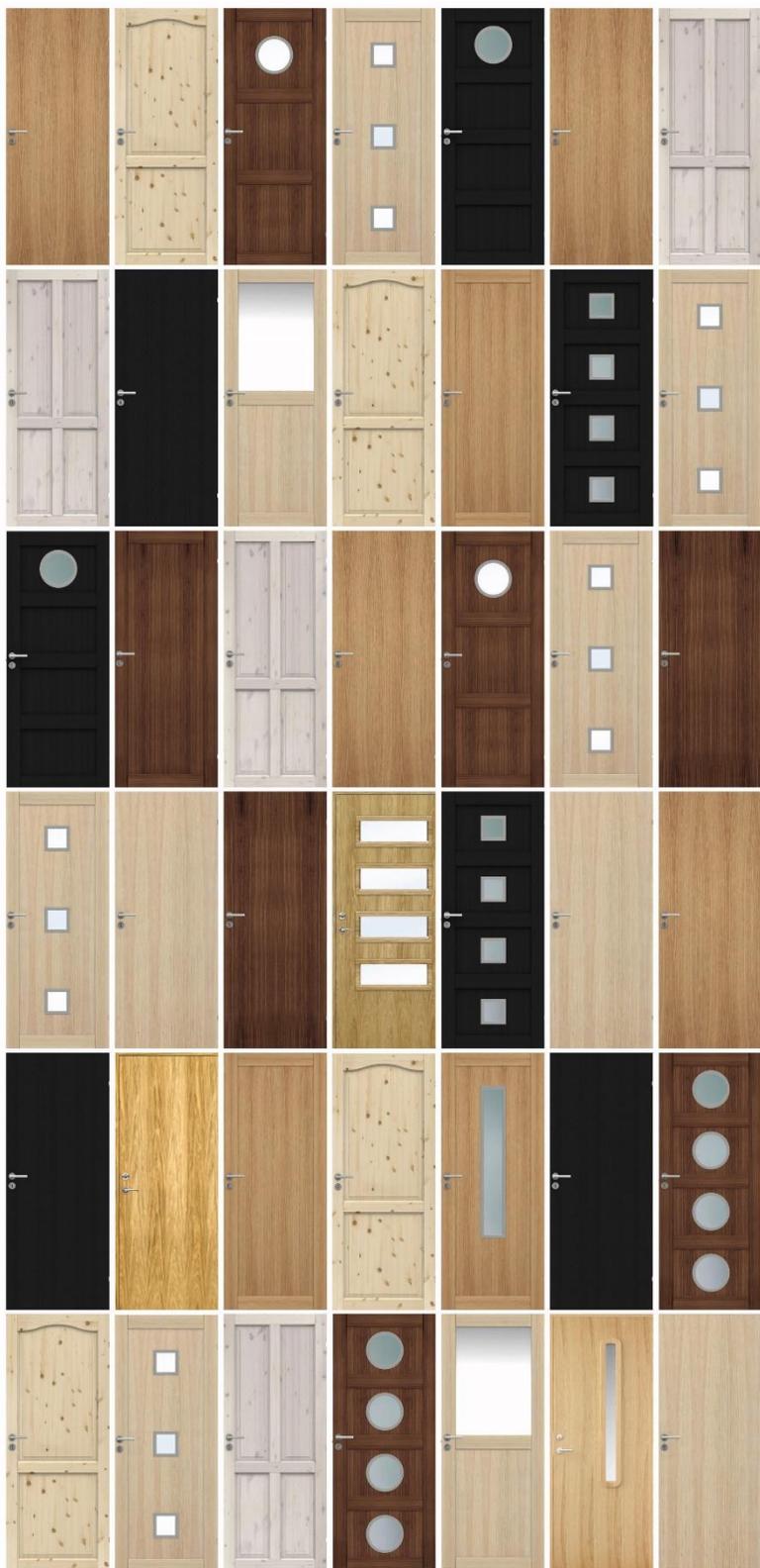
ENVIRONMENTAL PRODUCT DECLARATION

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

SWEDOOR ADVANCE-LINE

EXTERIOR DOORSETS, UNGLAZED

JELD-WEN



EPD HUB, EPD number HUB-3327

Published on 18.05.2025, last updated on 04.02.2026, valid until 18.05.2030

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.

GENERAL INFORMATION

MANUFACTURER

Manufacturer	JELD-WEN
Address	Retford Road, Woodhouse Mill, Sheffield, South Yorkshire, S13 9WH, United Kingdom
Contact details	eu_sustainability@jeldwen.com
Website	www.jeld-wen.biz

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 EN 17213 Windows and doors
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	Piia Peever, JELD-WEN
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

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	Swedoor ADVANCE-LINE, Exterior doorsets, unglazed
Additional labels	ADVANCE-LINE Vision ADVANCE-LINE Nordic ADVANCE-LINE Classic ADVANCE-LINE Statement
Place of production	Aizkraukle, Latvia
Period for data	Calendar year 2021
Averaging in EPD	No averaging

ENVIRONMENTAL DATA SUMMARY

Declared unit	one square meter (m ²)
Declared unit mass	40,57 kg
GWP-fossil, A1-A3 (kgCO₂e)	7,81E+01
GWP-total, A1-A3 (kgCO₂e)	2,28E+01
Secondary material, inputs (%)	1,52
Secondary material, outputs (%)	76
Total energy use, A1-A3 (kWh)	472
Net freshwater use, A1-A3 (m³)	1,68

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Headquartered in Charlotte, N.C., USA, JELD-WEN is a leading global manufacturer of high-performance interior and exterior building products, offering one of the broadest selections of windows, interior and exterior doors, and wall systems. JELD-WEN delivers a differentiated customer experience, providing construction professionals with durable, energy-efficient products and labor-saving services that help them maximize productivity and create beautiful, secure spaces for all to enjoy. The JELD-WEN team is driven by innovation and committed to creating safe, sustainable environments for customers, associates, and local communities. The JELD-WEN family of brands includes JELD-WEN® worldwide; LaCantina™ and VPI™ in North America; Swedoor® and DANA® in Europe. Visit JELD-WEN.com for more information.

PRODUCT DESCRIPTION

Advance-line exterior doorset including unglazed wooden door and frame, and standard hardware for installation. Doorleaf has 77 mm sandwich construction with wood fibre core, and it is installed together as a doorset with the Swedoor-frameset for exterior doors. Product is suitable for use in both private and commercial buildings, with main area of use residential houses (1+2 dwellings). The doorset can be manufactured with classification option for 30 minute fire rating and up to 44 dB sound reduction.

The scope of this EPD is the full doorset for module size of 9x21, depth of frame 210 mm. The reference size of 0,988 m x 2,080 m is used in the LCA to calculate the results for the declared unit (one square meter of the doorset).

The specific technical standards and additional product information for the designs and available classification options can be found on Swedoor website www.jeld-wen.biz.

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	9	EU
Fossil materials	5	EU
Bio-based materials	86	EU

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	21,17
Biogenic carbon content in packaging, kg C	1,63

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	one square meter (m ²)
Mass per declared unit	40,57 kg

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							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.

The manufacturing process begins by gluing and pressing the components of the doorleaf together. This is followed then by different milling phases, where the product components are made to meet the correct dimensions, as well as the holes for the hardware installations and chosen edge profiles are made. Next, the door undergoes the surface treatment. After the painting process, the door is ready for

installing the hardware (lock and hinges). Lastly, before leaving the factory, the door is stacked onto pallets along other doors and to shield the finished product during transportation phase, the stack is protected with cardboard and plastic packaging materials.

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.

The transportation distance is calculated based on the product-specific sales data, taking into account the end customer locations; weighted average result is being used. The transportation method is assumed to be lorry and ferry. Vehicle capacity utilization volume factor is assumed to be 1 which means full load. In reality, it may vary but as role of transportation emissions in total results is small, the variety in load is assumed to be negligible. Empty returns are not taken into account as it is assumed that return trip is used by the transportation company to serve the needs of other clients. Transportation does not cause losses as products are packaged properly.

Installation includes the generated packaging waste. There is no loss on site during construction activities. Energy use during installation has not been taken into account, as installing the door only requires mounting and fastening. No additional materials are needed for installation.

PRODUCT USE AND MAINTENANCE (B1-B7)

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

PRODUCT END OF LIFE (C1-C4, D)

Consumption of energy and natural resources in demolition process is assumed to be negligible.

It is assumed that the waste is collected as mixed construction waste and transported to the waste treatment center. Transportation distance to treatment is assumed as 50 km and the transportation method is assumed to be lorry (C2).

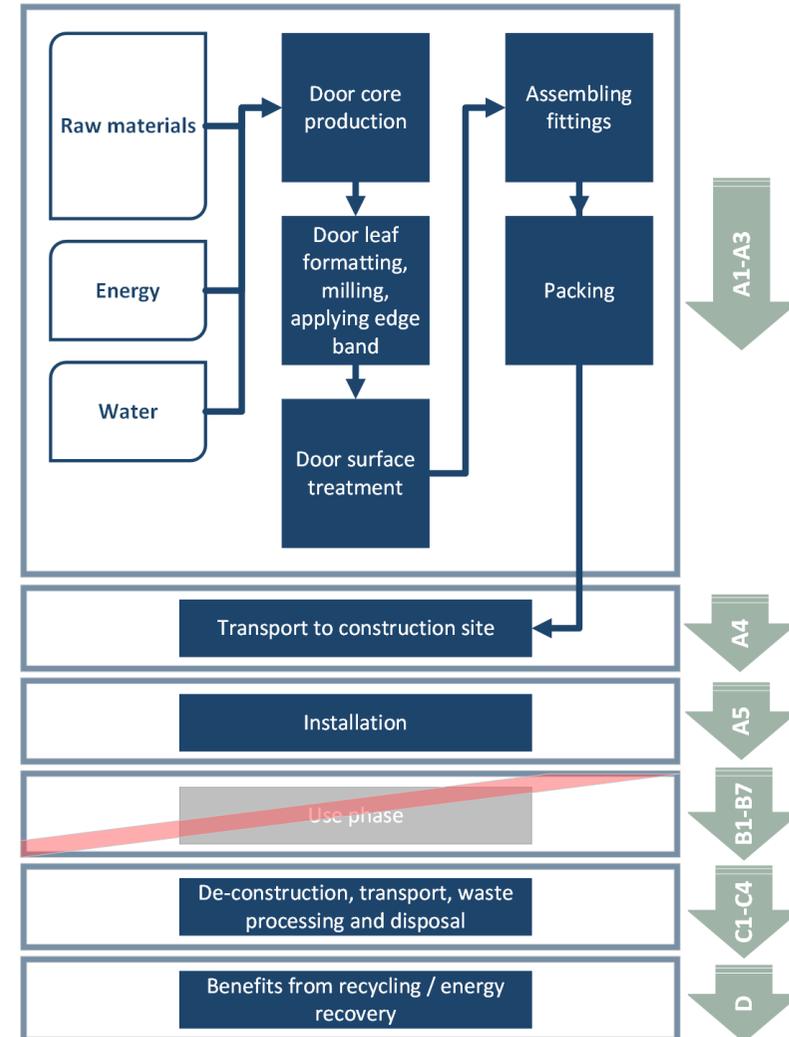
Per the end of life scenario of timber windows and doorsets (EN17213 Annex B), the wood, metal, plastic, paint and glue are sorted. Module C3 accounts for energy and resource inputs for sorting and treating these waste streams for recycling and incineration with energy recovery.

(EN17213 Annex B), 5% of wood, 5% of metal, 5% of plastic and 5% of paint and glue waste goes to landfill. Additionally, hazardous waste that is incinerated is included in Module C4 while the flow not included in Module D for benefits.

As specific national data is not used for timber / wooden products, then according to the end of life scenario of timber windows and doorsets (EN17213 Annex B), 100% of sorted timber materials goes to incineration.

The wooden pallet, wooden board, cardboard packaging and plastic packaging used during transportation are also incinerated for energy recovery or recycled. The benefits and loads of incineration and recycling are included in Module D.

MANUFACTURING PROCESS AND SYSTEM BOUNDARY



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.

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 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	Allocated by mass or volume
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 (%)	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

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	-5,22E+00	7,70E+00	2,03E+01	2,28E+01	9,58E+00	5,91E+00	MND	0,00E+00	4,88E-01	5,17E+01	7,49E+00	1,88E+01						
GWP – fossil	kg CO ₂ e	4,96E+01	7,70E+00	2,08E+01	7,81E+01	9,57E+00	1,53E-01	MND	0,00E+00	4,88E-01	2,64E+00	4,91E+00	-4,94E+01						
GWP – biogenic	kg CO ₂ e	-5,54E+01	0,00E+00	-4,59E-01	-5,59E+01	0,00E+00	5,76E+00	MND	0,00E+00	0,00E+00	4,90E+01	2,58E+00	6,83E+01						
GWP – LULUC	kg CO ₂ e	5,67E-01	2,73E-03	9,48E-03	5,80E-01	3,52E-03	1,32E-04	MND	0,00E+00	1,96E-04	1,04E-03	2,12E-04	-8,68E-02						
Ozone depletion pot.	kg CFC-11e	7,87E-06	1,48E-07	1,68E-06	9,70E-06	1,87E-07	1,99E-09	MND	0,00E+00	8,62E-09	1,15E-08	3,39E-08	-4,35E-07						
Acidification potential	mol H ⁺ e	4,09E-01	3,00E-02	6,93E-02	5,08E-01	4,96E-02	4,51E-04	MND	0,00E+00	1,60E-03	3,80E-03	3,59E-03	-3,32E-01						
EP-freshwater ²⁾	kg Pe	1,22E-02	5,00E-04	5,63E-04	1,32E-02	6,09E-04	3,34E-05	MND	0,00E+00	3,51E-05	3,51E-04	6,72E-05	-1,83E-02						
EP-marine	kg Ne	6,17E-02	1,01E-02	1,84E-02	9,02E-02	1,49E-02	1,57E-04	MND	0,00E+00	5,35E-04	7,33E-04	1,29E-03	-4,66E-02						
EP-terrestrial	mol Ne	7,28E-01	1,11E-01	2,39E-01	1,08E+00	1,63E-01	1,31E-03	MND	0,00E+00	5,82E-03	7,26E-03	7,09E-03	-4,98E-01						
POCP (“smog”) ³⁾	kg NMVOCe	2,30E-01	4,36E-02	6,18E-02	3,36E-01	6,04E-02	5,04E-04	MND	0,00E+00	2,47E-03	2,46E-03	4,72E-03	-1,62E-01						
ADP-minerals & metals ⁴⁾	kg Sbe	3,48E-04	2,30E-05	2,06E-05	3,92E-04	2,87E-05	5,37E-07	MND	0,00E+00	1,41E-06	1,48E-05	1,86E-06	-2,21E-04						
ADP-fossil resources	MJ	6,30E+02	1,08E+02	3,08E+02	1,05E+03	1,34E+02	1,77E+00	MND	0,00E+00	7,02E+00	1,09E+01	2,26E+01	-5,73E+02						
Water use ⁵⁾	m ³ e depr.	2,62E+02	5,21E-01	2,06E+01	2,84E+02	6,41E-01	2,86E-02	MND	0,00E+00	3,51E-02	2,89E-01	9,16E-02	-7,78E+00						

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	5,86E-06	6,93E-07	4,18E-07	6,97E-06	7,50E-07	7,72E-09	MND	0,00E+00	4,63E-08	4,57E-08	4,26E-08	-5,00E-06						
Ionizing radiation ⁶⁾	kBq U235e	3,54E+00	1,29E-01	1,16E+00	4,82E+00	1,61E-01	1,90E-02	MND	0,00E+00	7,52E-03	1,77E-01	1,88E-02	-5,13E+00						
Ecotoxicity (freshwater)	CTUe	7,01E+02	1,36E+01	1,46E+02	8,61E+02	1,67E+01	4,17E-01	MND	0,00E+00	9,25E-01	5,37E+00	2,59E+01	-1,35E+02						
Human toxicity, cancer	CTUh	1,03E-07	1,28E-09	1,04E-08	1,15E-07	1,65E-09	4,62E-11	MND	0,00E+00	8,11E-11	1,74E-09	9,21E-09	-1,82E-08						
Human tox. non-cancer	CTUh	1,31E-06	6,57E-08	1,03E-07	1,47E-06	8,10E-08	1,42E-09	MND	0,00E+00	4,52E-09	2,25E-08	1,57E-08	-3,60E-07						
SQP ⁷⁾	-	5,74E+03	7,17E+01	3,54E+02	6,17E+03	8,46E+01	1,04E+00	MND	0,00E+00	6,40E+00	5,39E+00	2,68E+00	-3,28E+02						

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	7,46E+02	1,76E+00	1,72E+01	7,65E+02	2,20E+00	-4,17E+00	MND	0,00E+00	1,08E-01	1,78E+00	-2,94E+01	-7,67E+02						
Renew. PER as material	MJ	4,65E+02	0,00E+00	8,77E+00	4,74E+02	0,00E+00	-4,29E+01	MND	0,00E+00	0,00E+00	-4,09E+02	-2,15E+01	4,73E+02						
Total use of renew. PER	MJ	1,21E+03	1,76E+00	2,60E+01	1,24E+03	2,20E+00	-4,70E+01	MND	0,00E+00	1,08E-01	-4,08E+02	-5,09E+01	-2,93E+02						
Non-re. PER as energy	MJ	5,37E+02	1,08E+02	2,81E+02	9,27E+02	1,34E+02	-1,08E+01	MND	0,00E+00	7,02E+00	-3,47E+01	-6,22E+00	-5,82E+02						
Non-re. PER as material	MJ	6,17E+01	0,00E+00	9,55E+00	7,12E+01	0,00E+00	-1,44E+01	MND	0,00E+00	0,00E+00	-5,40E+01	-2,84E+00	1,64E+01						
Total use of non-re. PER	MJ	5,99E+02	1,08E+02	2,91E+02	9,98E+02	1,34E+02	-2,51E+01	MND	0,00E+00	7,02E+00	-8,87E+01	-9,06E+00	-5,66E+02						
Secondary materials	kg	6,17E-01	4,87E-02	1,52E-01	8,17E-01	6,05E-02	1,85E-03	MND	0,00E+00	3,06E-03	6,49E-03	9,11E-03	-6,78E-01						
Renew. secondary fuels	MJ	3,82E+00	5,89E-04	1,58E+00	5,40E+00	7,23E-04	1,48E-05	MND	0,00E+00	3,87E-05	1,08E-04	1,62E-05	1,21E-03						
Non-ren. secondary fuels	MJ	4,79E-02	0,00E+00	0,00E+00	4,79E-02	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00						
Use of net fresh water	m ³	1,25E+00	1,45E-02	4,18E-01	1,68E+00	1,77E-02	7,53E-04	MND	0,00E+00	1,02E-03	5,64E-03	-4,76E-03	-7,41E-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	1,01E+01	1,56E-01	4,01E-01	1,07E+01	1,90E-01	7,03E-03	MND	0,00E+00	1,09E-02	9,51E-02	9,44E-02	-5,87E+00						
Non-hazardous waste	kg	1,04E+02	3,18E+00	2,50E+01	1,32E+02	3,90E+00	2,62E-01	MND	0,00E+00	2,13E-01	6,13E+00	9,76E+00	-5,07E+01						
Radioactive waste	kg	1,55E-03	3,19E-05	4,40E-04	2,03E-03	4,00E-05	4,87E-06	MND	0,00E+00	1,86E-06	4,54E-05	4,75E-06	-1,16E-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	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00						
Materials for recycling	kg	6,60E-02	0,00E+00	8,30E-03	7,43E-02	0,00E+00	6,04E-01	MND	0,00E+00	0,00E+00	3,49E+00	0,00E+00	0,00E+00						
Materials for energy rec	kg	1,00E-03	0,00E+00	2,51E+00	2,51E+00	0,00E+00	2,96E+00	MND	0,00E+00	0,00E+00	2,74E+01	0,00E+00	-1,05E-01						
Exported energy	MJ	0,00E+00	0,00E+00	7,94E+01	7,94E+01	0,00E+00	0,00E+00	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	1,20E+01	1,20E+01	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00						
Exported energy - Heat	MJ	0,00E+00	0,00E+00	6,75E+01	6,75E+01	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	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 ₂ e	4,89E+01	7,65E+00	2,04E+01	7,69E+01	9,51E+00	1,55E-01	MND	0,00E+00	4,85E-01	2,63E+00	5,00E+00	-4,92E+01						
Ozone depletion Pot.	kg CFC ₁₁ e	7,62E-06	1,18E-07	1,31E-06	9,05E-06	1,49E-07	1,60E-09	MND	0,00E+00	6,87E-09	9,37E-09	2,69E-08	-3,78E-07						
Acidification	kg SO ₂ e	3,34E-01	2,28E-02	4,93E-02	4,06E-01	3,85E-02	3,55E-04	MND	0,00E+00	1,22E-03	3,15E-03	2,98E-03	-2,82E-01						
Eutrophication	kg PO ₄ ³ e	3,54E-01	5,26E-03	4,90E-02	4,08E-01	7,30E-03	7,95E-05	MND	0,00E+00	3,04E-04	4,51E-04	3,92E-04	-2,31E-02						
POCP ("smog")	kg C ₂ H ₄ e	2,61E-02	1,97E-03	3,98E-03	3,21E-02	2,87E-03	3,16E-05	MND	0,00E+00	1,12E-04	2,03E-04	2,69E-04	-1,78E-02						
ADP-elements	kg Sbe	3,34E-04	2,25E-05	2,00E-05	3,76E-04	2,81E-05	5,28E-07	MND	0,00E+00	1,38E-06	1,48E-05	1,67E-06	-2,18E-04						
ADP-fossil	MJ	5,79E+02	1,06E+02	3,03E+02	9,89E+02	1,31E+02	1,43E+00	MND	0,00E+00	6,90E+00	7,82E+00	2,23E+01	-4,98E+02						

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	2,85E-04	2,25E-05	1,99E-05	3,28E-04	2,81E-05	5,28E-07	MND	0,00E+00	1,38E-06	1,48E-05	1,67E-06	-2,18E-04						
Hazardous waste disposed	kg	9,41E+00	1,56E-01	4,44E-01	1,00E+01	1,90E-01	7,03E-03	MND	0,00E+00	1,09E-02	9,51E-02	9,44E-02	-5,87E+00						
Non-haz. waste disposed	kg	9,90E+01	3,18E+00	2,12E+01	1,23E+02	3,90E+00	2,62E-01	MND	0,00E+00	2,13E-01	6,13E+00	9,76E+00	-5,07E+01						
Air pollution	m ³	1,66E+04	1,49E+03	1,19E+03	1,93E+04	1,84E+03	2,74E+01	MND	0,00E+00	1,09E+02	1,88E+02	9,11E+01	-2,26E+04						
Water pollution	m ³	1,98E+02	5,88E+01	2,30E+01	2,79E+02	7,34E+01	1,13E+00	MND	0,00E+00	3,58E+00	7,87E+00	1,51E+01	-1,56E+02						

ENVIRONMENTAL IMPACTS – GWP-GHG - THE INTERNATIONAL EPD SYSTEM

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 _{2e}	5,02E+01	7,70E+00	2,08E+01	7,86E+01	9,58E+00	1,53E-01	MND	0,00E+00	4,88E-01	2,64E+00	4,91E+00	-4,95E+01						

9) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product as defined by IPCC AR 5 (IPCC 2013). In addition, the characterisation factors for the flows - CH₄ fossil, CH₄ biogenic and Dinitrogen monoxide - were updated in line with the guidance of IES PCR 1.2.5 Annex 1. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterization factor for biogenic CO₂ is set to zero.

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 manufacturer(s) or group of manufacturers are responsible for its factual integrity.

EPD Hub has performed a detailed examination of the pre-verified tool and underlying data to ensure that there are no deviations in the studied Environmental Product Declaration (EPD), its Life Cycle Assessment (LCA), and project report. The tool is implemented according to the procedural and methodological requirements outlined in ISO 14025:2010, ISO 14040/14044, EN 15804+A2, and EPD Hub Core Product Category Rules version 1.1 and General Program Instructions version 1.2.

Tool verifier: Hai Ha Nguyen

Tool verification validity: 20 Dec 2024 - 19 Dec 2027

Imane Uald Lamkaddam as an authorized verifier for EPD Hub Limited
18.05.2025

