



# ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

Douro SPC Flooring with IXPE backing  
Lamett Europe NV



## EPD HUB, HUB-3908

Published on 05.09.2025, last updated on 05.09.2025, valid until 04.09.2030

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	Lamett Europe NV
Address	Ter Donkt 2, , 8540, Deerlijk, BE
Contact details	info@lamett.eu
Website	https://lamett.com

### 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 1.1, 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	Tine Defrancq, Lamett Europe
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	Douro SPC Flooring with IXPE backing
Additional labels	M1 certificate
Product reference	-
Place(s) of raw material origin	Dalian, China
Place of production	Dalian, China
Place(s) of installation and use	Europe
Period for data	January to December 2024
Averaging in EPD	No averaging
Variation in GWP-fossil for A1-A3 (%)	-
GTIN (Global Trade Item Number)	-
NOBB (Norwegian Building Product Database)	-
A1-A3 Specific data (%)	29,9

**ENVIRONMENTAL DATA SUMMARY**

Declared unit	1 square meter of floor
Declared unit mass	8,15 kg
GWP-fossil, A1-A3 (kgCO <sub>2</sub> e)	1,34E+01
GWP-total, A1-A3 (kgCO <sub>2</sub> e)	1,29E+01
Secondary material, inputs (%)	0,67
Secondary material, outputs (%)	0
Total energy use, A1-A3 (kWh)	48,5
Net freshwater use, A1-A3 (m <sup>3</sup> )	0,09

## PRODUCT AND MANUFACTURER

### ABOUT THE MANUFACTURER

Lamett Europe was founded in 2005 and has since grown into one of Europe's leading players in the field SPC flooring. As both a manufacturer and distributor, Lamett has built up a strong reputation for quality, finish and customer-oriented service.

Thanks to a broad and distinctive collection, Lamett offers solutions for every style and every budget. The brand is also a fixed value in the project market. Thanks to vertical integration and a large, permanent stock, Lamett can effortlessly meet the highest demands of every project.

### PRODUCT DESCRIPTION

Douro SPC flooring with integrated IXPE backing is a high-performance rigid core SPC (Stone Plastic Composite) solution, engineered for both residential and commercial use. Designed to combine durability with ease of installation, this flooring is 100% waterproof, low-maintenance, and ideal for all areas of the home—including kitchens and bathrooms—thanks to its outstanding dimensional stability.

The attached IXPE backing enhances acoustic performance by providing sound insulation, making it an excellent choice for multi-level buildings and shared living spaces. The SPC flooring also features ultra-low VOC emissions, contributing to a healthier indoor environment. The product is certified with the M1 emission classification, ensuring it meets strict standards for indoor air quality.

Further information can be found at [www.lamett.com](http://www.lamett.com)

### PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	-	-
Minerals	65	China
Fossil materials	35	China
Bio-based materials	-	-

### BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	-
Biogenic carbon content in packaging, kg C	0,153

### FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 square meter of floor
Mass per declared unit	8,15 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.

A location-based approach is used in modelling the electricity mix utilized in the factory.

Raw material supply includes the extraction and processing of all raw materials and energy sources used upstream of the studied manufacturing process. Raw materials are transported either by lorry or container ship to the manufacturing site.

The products are manufactured at a production facility located in China. The manufacturer provided primary data for annual production volumes, resource consumption, and energy use at the facility. The production process includes material mixing, extrusion, film and wear layer lamination, surface treatment, backing and pressing, cutting, profiling and packaging. Packaging-related flows are included in the manufacturing module, including the use of wooden pallets, straps and corrugated cardboard boxes. In addition to the production of packaging materials, their supply and transport are also considered in the LCA model.

Production losses are estimated at 1% for both the UV lacquer and the water-based pressure-sensitive adhesive used in the IXPE underlayer. Electricity used in the manufacturing process is sourced from two origins: the medium-voltage electricity grid in the Northeast region of China, and photovoltaic panels installed on the roof of the manufacturing facility. The accounted ancillary materials used in the manufacturing process include methanol, machine oil, tap water, and spent activated carbon. Waste management for the 1% production loss is included in the LCA model. All relevant emissions and disposal processes are modeled according to applicable waste treatment scenarios.

### 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.

Module A4 covers the transportation of the product from the manufacturing facility in China to the head office of Lamett, as well as the subsequent

distribution to clients. The transport begins with a road journey of 80 km by lorry from the production site to the port of departure. From there, the products are shipped over a distance of 5,349.34 km by sea freight to the port nearest to Lamett's head office.

Following arrival, the products are further transported to clients. This downstream distribution is also included in the model, based on a sales-weighted average transport distance of 907.65 km, typically carried out by road.

Module A5 includes the impacts associated with the installation of the product. An installation waste rate of 5% is assumed, representing off-cuts and unused material. A worst-case scenario is applied, in which all installation waste is sent to landfill. The transport distance to the landfill facility is assumed to be 50 km by lorry.

The end-of-life treatment of packaging materials used during installation is included in this module. The packaging waste is modeled according to the EU's average waste management scenario, which includes recycling, energy recovery, and landfill in proportions based on EU statistics

## 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)

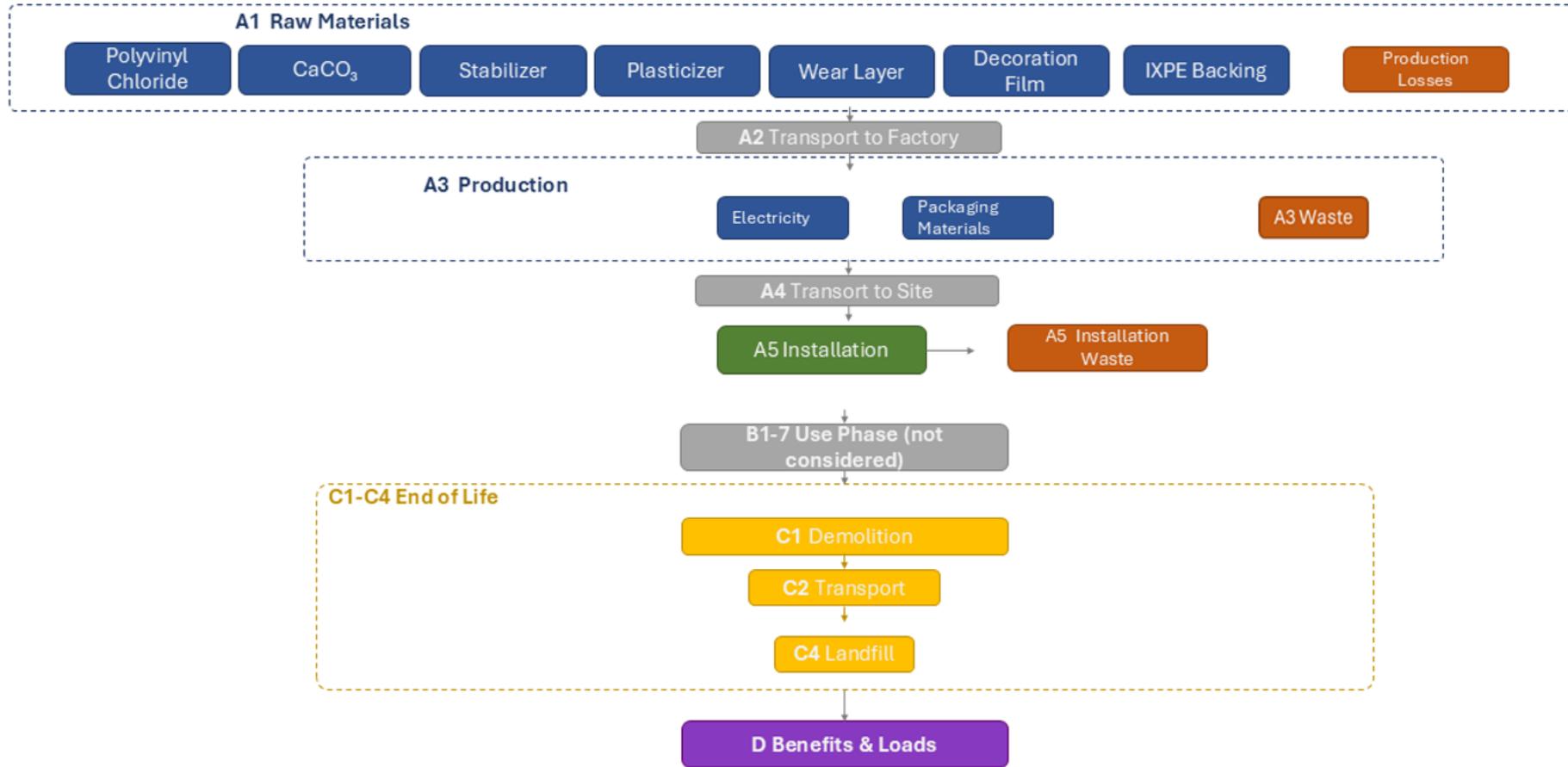
At the end of life, disassembly is assumed to be carried out manually at the use-site. As this process does not require additional energy or equipment, no environmental impacts are assigned to Module C1.

For Module C2, a transport distance of 50 km by lorry is assumed for the movement of the product to the waste treatment or disposal facility.

In Module C3, the product is a composite material and is considered hard to separate and is assumed to be sent entirely to landfill (100%).

Module D accounts for the benefits associated with the disposal of packaging materials, as modeled in Module A5.

# 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	No allocation
Packaging material	No allocation
Ancillary materials	No allocation
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, %	-

This EPD is product and factory specific.

### 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 <sup>1)</sup>	kg CO <sub>2</sub> e	9,30E+00	5,33E-01	3,01E+00	1,28E+01	5,83E+00	2,28E+00	MND	0,00E+00	7,74E-02	0,00E+00	2,39E+00	-2,82E+00						
GWP – fossil	kg CO <sub>2</sub> e	9,29E+00	5,32E-01	3,58E+00	1,34E+01	5,82E+00	1,20E+00	MND	0,00E+00	7,74E-02	0,00E+00	4,12E-01	-2,65E+00						
GWP – biogenic	kg CO <sub>2</sub> e	-1,17E-04	6,99E-05	-5,66E-01	-5,66E-01	1,32E-03	1,09E+00	MND	0,00E+00	1,55E-05	0,00E+00	1,98E+00	-1,68E-01						
GWP – LULUC	kg CO <sub>2</sub> e	1,29E-02	2,38E-04	2,79E-03	1,59E-02	2,61E-03	9,76E-04	MND	0,00E+00	2,78E-05	0,00E+00	1,42E-04	-1,57E-03						
Ozone depletion pot.	kg CFC-11e	1,76E-06	7,86E-09	9,02E-09	1,78E-06	8,60E-08	9,37E-08	MND	0,00E+00	1,54E-09	0,00E+00	2,78E-09	-5,33E-07						
Acidification potential	mol H <sup>+</sup> e	3,78E-02	1,82E-03	1,84E-02	5,81E-02	1,99E-02	4,10E-03	MND	0,00E+00	1,61E-04	0,00E+00	1,39E-03	-1,07E-02						
EP-freshwater <sup>2)</sup>	kg Pe	2,46E-03	4,14E-05	7,65E-04	3,26E-03	4,53E-04	2,09E-04	MND	0,00E+00	5,21E-06	0,00E+00	6,19E-04	-1,15E-03						
EP-marine	kg Ne	7,53E-03	5,96E-04	4,37E-03	1,25E-02	6,53E-03	1,14E-03	MND	0,00E+00	3,87E-05	0,00E+00	1,16E-02	-1,95E-03						
EP-terrestrial	mol Ne	7,81E-02	6,49E-03	4,58E-02	1,30E-01	7,10E-02	1,09E-02	MND	0,00E+00	4,17E-04	0,00E+00	4,32E-03	-1,91E-02						
POCP (“smog”) <sup>3)</sup>	kg NMVOCe	3,97E-02	2,68E-03	1,22E-02	5,46E-02	2,93E-02	4,45E-03	MND	0,00E+00	2,68E-04	0,00E+00	2,73E-03	-1,16E-02						
ADP-minerals & metals <sup>4)</sup>	kg Sbe	9,07E-05	1,49E-06	4,13E-06	9,64E-05	1,62E-05	5,75E-06	MND	0,00E+00	2,58E-07	0,00E+00	2,93E-07	-2,82E-05						
ADP-fossil resources	MJ	1,96E+02	7,73E+00	3,40E+01	2,38E+02	8,45E+01	1,65E+01	MND	0,00E+00	1,09E+00	0,00E+00	2,61E+00	-6,93E+01						
Water use <sup>5)</sup>	m <sup>3</sup> e depr.	2,94E+00	3,82E-02	5,55E-01	3,54E+00	4,18E-01	2,28E-01	MND	0,00E+00	5,41E-03	0,00E+00	2,87E-02	-7,37E-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	4,00E-07	5,33E-08	2,84E-07	7,37E-07	5,83E-07	6,89E-08	MND	0,00E+00	5,70E-09	0,00E+00	1,87E-08	-6,00E-08						
Ionizing radiation <sup>6)</sup>	kBq 11235e	5,19E-01	6,73E-03	9,24E-02	6,18E-01	7,36E-02	3,55E-02	MND	0,00E+00	1,40E-03	0,00E+00	6,35E-03	-5,27E-01						
Ecotoxicity (freshwater)	CTUe	6,26E+01	1,09E+00	1,04E+01	7,41E+01	1,20E+01	5,32E+00	MND	0,00E+00	1,45E-01	0,00E+00	8,12E+01	-9,58E+00						
Human toxicity, cancer	CTUh	7,95E-09	8,79E-11	1,07E-09	9,11E-09	9,61E-10	6,03E-10	MND	0,00E+00	1,30E-11	0,00E+00	2,56E-10	-2,38E-09						
Human tox. non-cancer	CTUh	8,67E-08	5,00E-09	2,16E-08	1,13E-07	5,47E-08	1,12E-08	MND	0,00E+00	6,89E-10	0,00E+00	3,86E-08	-2,49E-08						
SQP <sup>7)</sup>	-	2,82E+01	7,78E+00	6,54E+01	1,01E+02	8,51E+01	9,70E+00	MND	0,00E+00	6,58E-01	0,00E+00	4,88E+00	-2,65E+01						

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 <sup>8)</sup>	MJ	8,21E+00	1,06E-01	7,68E+00	1,60E+01	1,16E+00	-9,21E+00	MND	0,00E+00	1,91E-02	0,00E+00	-7,48E+01	-7,60E+00						
Renew. PER as material	MJ	0,00E+00	0,00E+00	5,29E+00	5,29E+00	0,00E+00	-5,29E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,05E+00						
Total use of renew. PER	MJ	8,21E+00	1,06E-01	1,30E+01	2,13E+01	1,16E+00	-1,45E+01	MND	0,00E+00	1,91E-02	0,00E+00	-7,48E+01	-5,55E+00						
Non-re. PER as energy	MJ	1,18E+02	7,73E+00	3,33E+01	1,59E+02	8,45E+01	9,67E+00	MND	0,00E+00	1,09E+00	0,00E+00	-4,64E+01	-8,19E+01						
Non-re. PER as material	MJ	0,00E+00	0,00E+00	3,52E-01	3,52E-01	0,00E+00	-3,52E-01	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,08E+01						
Total use of non-re. PER	MJ	1,18E+02	7,73E+00	3,37E+01	1,59E+02	8,45E+01	9,32E+00	MND	0,00E+00	1,09E+00	0,00E+00	-4,64E+01	-4,11E+01						
Secondary materials	kg	5,46E-02	3,29E-03	5,94E-02	1,17E-01	3,60E-02	8,01E-03	MND	0,00E+00	5,05E-04	0,00E+00	8,59E-04	1,10E+00						
Renew. secondary fuels	MJ	4,38E-03	4,18E-05	4,64E-02	5,08E-02	4,57E-04	2,57E-03	MND	0,00E+00	6,39E-06	0,00E+00	1,49E-05	-9,53E-05						
Non-ren. secondary fuels	MJ	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						
Use of net fresh water	m <sup>3</sup>	7,27E-02	1,14E-03	1,31E-02	8,69E-02	1,25E-02	4,64E-03	MND	0,00E+00	1,48E-04	0,00E+00	-3,07E-02	-2,29E-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	6,41E-01	1,31E-02	4,42E-01	1,10E+00	1,43E-01	7,99E-02	MND	0,00E+00	1,58E-03	0,00E+00	7,14E-03	-1,35E-01						
Non-hazardous waste	kg	8,63E+01	2,42E-01	3,77E+00	9,03E+01	2,65E+00	6,32E+00	MND	0,00E+00	3,34E-02	0,00E+00	4,17E+01	-5,05E+01						
Radioactive waste	kg	1,30E-04	1,65E-06	2,18E-05	1,53E-04	1,80E-05	8,78E-06	MND	0,00E+00	3,49E-07	0,00E+00	1,55E-06	-1,36E-04						

### 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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,72E-01	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	4,08E-01	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	8,33E-02	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	3,43E-02	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	0,00E+00	0,00E+00	0,00E+00	4,90E-02	MND	0,00E+00	0,00E+00	0,00E+00	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 <sub>2</sub> e	9,23E+00	5,29E-01	3,55E+00	1,33E+01	5,79E+00	1,22E+00	MND	0,00E+00	7,69E-02	0,00E+00	4,58E+00	-2,59E+00						
Ozone depletion Pot.	kg CFC <sub>-11</sub> e	1,68E-06	6,27E-09	9,12E-09	1,69E-06	6,86E-08	8,85E-08	MND	0,00E+00	1,23E-09	0,00E+00	2,23E-09	-5,23E-07						
Acidification	kg SO <sub>2</sub> e	3,11E-02	1,39E-03	1,49E-02	4,74E-02	1,52E-02	3,28E-03	MND	0,00E+00	1,29E-04	0,00E+00	1,05E-03	-8,93E-03						
Eutrophication	kg PO <sub>4</sub> <sup>3</sup> e	9,27E-02	3,38E-04	6,63E-03	9,96E-02	3,70E-03	5,25E-03	MND	0,00E+00	3,27E-05	0,00E+00	7,06E-03	-2,81E-03						
POCP (“smog”)	kg C <sub>2</sub> H <sub>4</sub> e	3,48E-03	1,24E-04	9,24E-04	4,53E-03	1,35E-03	3,12E-04	MND	0,00E+00	1,37E-05	0,00E+00	1,00E-03	-8,55E-04						
ADP-elements	kg Sbe	7,86E-05	1,45E-06	4,08E-06	8,41E-05	1,58E-05	5,10E-06	MND	0,00E+00	2,52E-07	0,00E+00	2,85E-07	-2,38E-05						
ADP-fossil	MJ	1,88E+02	7,62E+00	3,23E+01	2,28E+02	8,34E+01	1,60E+01	MND	0,00E+00	1,06E+00	0,00E+00	2,51E+00	-6,00E+01						

### 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 <sup>9)</sup>	kg CO <sub>2</sub> e	9,30E+00	5,33E-01	3,58E+00	1,34E+01	5,83E+00	1,20E+00	MND	0,00E+00	7,74E-02	0,00E+00	4,12E-01	-2,66E+00						

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 – CH<sub>4</sub> fossil, CH<sub>4</sub> 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 CO<sub>2</sub> is set to zero.

## SCENARIO DOCUMENTATION

### Manufacturing energy scenario documentation

Scenario parameter	Value
Electricity data source and quality	Market for electricity, medium voltage (Reference product: electricity, medium voltage), Electricity production, photovoltaic, 3kWp slanted-roof installation, multi-Si, panel, mounted (Reference product: electricity, low voltage)
Electricity CO2e / kWh	1,2868
District heating data source and quality	-
District heating CO2e / kWh	-

### Transport scenario documentation A4

Scenario parameter	Value
Fuel and vehicle type. Eg, electric truck, diesel powered truck	Transport, freight, lorry >32 metric ton, EURO5 - World
Average transport distance, km	987,65
Capacity utilization (including empty return) %	50
Bulk density of transported products	8,53978
Volume capacity utilization factor	<1

### Installation scenario documentation A5

Scenario information	Value
Ancillary materials for installation (specified by material) / kg or other units as appropriate	0,00007
Water use / m <sup>3</sup>	0,000288
Other resource use / kg	-
Quantitative description of energy type (regional mix) and consumption during the installation process / kWh or MJ	-
Waste materials on the building site before waste processing, generated by the product's installation (specified by type) / kg	0,79609
Output materials (specified by type) as result of waste processing at the building site e.g. collection for recycling, for energy recovery, disposal (specified by route) / kg	-
Direct emissions to ambient air, soil and water / kg	0,0000633

### End of life scenario documentation

Scenario information	Value
Collection process – kg collected separately	-
Collection process – kg collected with mixed waste	-
Recovery process – kg for re-use	-
Recovery process – kg for recycling	-
Recovery process – kg for energy recovery	-
Disposal (total) – kg for final deposition	8,15127
Scenario assumptions e.g. transportation	Transported 50 km by lorry

## 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 15802+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

Sarah Curpen, as an authorized verifier acting for EPD Hub Limited  
05.09.2025

