



# ENVIRONMENTAL PRODUCT DECLARATION

## IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

ElaProof Pro S  
Build Care Oy



### EPD HUB, HUB-3052

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.

## GENERAL INFORMATION

### MANUFACTURER

Manufacturer	Build Care Oy
Address	Kelatie 6, 01450 Vantaa, Finland
Contact details	info@buildcare.fi
Website	https://www.ElaProof.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	Virpi Rahikkala Build Care 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	ElaProof Pro S
Additional labels	ElaProof Pro S & ElaProof Indoor Pro S
Product reference	1150, 1150G, 1150W, 1150R, 1150RR11, 1150RR32, 1150RR32, 2160, 2160G, 2160W, 2160R, 2160RR11, 2160RR32, 2160RR32, 3100W, 3100G, 4160, 4160W, 4160G
Place(s) of raw material origin	Europa
Place of production	Lohja, Finland
Place(s) of installation and use	Europa
Period for data	Jan2024- Dec2024
Averaging in EPD	Multiple products
Variation in GWP-fossil for A1-A3 (%)	5,5
GTIN (Global Trade Item Number)	6430068690020; 6430068690204; 6430068691270; 6430068690211; 6430068690785; 6430068691126; 6430068690792; 6430068690068; 6430068690266; 6430068691164; 6430068690273; 6430068690709; 6430068691133; 6430068690693; 6430068691195; 6430068691201; 6430068690303; 6430068690297; 6430068690280
NOBB (Norwegian Building Product Database)	-
A1-A3 Specific data (%)	2,48

### ENVIRONMENTAL DATA SUMMARY

Declared unit	1 kg
Declared unit mass	1 kg
GWP-fossil, A1-A3 (kgCO <sub>2</sub> e)	1,54
GWP-total, A1-A3 (kgCO <sub>2</sub> e)	1,51
Secondary material, inputs (%)	2,23
Secondary material, outputs (%)	56
Total energy use, A1-A3 (kWh)	5,87
Net freshwater use, A1-A3 (m <sup>3</sup> )	0,03

# PRODUCT AND MANUFACTURER

## ABOUT THE MANUFACTURER

Build Care Ltd. manufactures patented ElaProof products from REACH-certified raw materials for professional and consumer use. Our highest quality environmentally friendly products are designed for protection and coating of structures and different building materials both indoor and outdoor. The product offering includes, among others, radon and indoor air leak protection, coating of roofs, terraces, balconies, concrete structures and protecting various materials e.g., bitumen, brick, concrete, metal, and wood.

## PRODUCT DESCRIPTION

This EPD is an updated version of the ElaProof S (HUB-3052) EPD due software update and more accurate datapoints, and it covers ElaProof Pro S range of roof coatings both outdoor and indoor use for professionals and DIY types. With the use as of an indoor (ElaProof Indoor Pro S, housing, DIY) product for a wall or a floor coating is recommended not to leave it as a top cover. ElaProof Pro S use on the roof is to extend the life of the existing roof coating instead of completely renewing the roof, which makes it both economically and environmentally highly recommended option.

ElaProof Pro S is water-based polyacrylic emulsion, an economical one-component product, which makes is easy to use with high-pressure sprayer. It is iso-cyanate- and solvent free, with viscosity level around 5t to 15t mPaS. ElaProof Pro S has pH around 8, so it is neutral with very low odor. Our product is listed in the Nordic Ecolabelling construction product database and can be used in Swan-labelled buildings.

The range of ElaProof Pro S is ideal for a long-lasting and a waterproofing protective layer, sealing indoor air leaks and radon, and as an indoor form it is M1 approved with an EMICODE EC 1+. ElaProof Pro S is also CE marked construction product based to EN 13813 and EN 1504-2. ElaProof Pro S has

classified with reaction to fire as C-s1 d0, and as a roof coating B<sub>roof</sub>(t2) which makes it suitable for the most of the roofings.

ElaProof Pro S is very elastic and therefore withstands structure movements, both moisture and temperature, with crack bridging ability of outstanding values 10,1 - 13,9 mm (EN 1062-7). For the very large cracks is recommended to use together with ElaProof Classic/Indoor H and ribbons. The reason the product has solid contain around 65 v/v% added the fact it is air drying with water evaporation, is then recommended to spread wet layer as 2 to 3 mm thickness (around 2,5 L/m<sup>2</sup>) to get at least 1,0 mm thick dry layer. The needed thickness can be spread with 2 layers with the product density around 1,17g/cm<sup>3</sup>.

ElaProof Pro S comes with seven different colors and ElaProof Indoor Pro S with three different colors; both can be customized by color when needed.

Further information can be found at: <https://www.elaproof.com>

## PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	0	-
Minerals	24	Europa
Fossil materials	35	Europa
Bio-based materials	0	-
Water	41	Europa

## 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	0,011

#### FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 kg
Mass per declared unit	1 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.

The raw materials are delivered to the Build Care production factory in Finland. Depending on the binder, content of water varies 56-44%. The raw materials are then mixed for roughly 3 hours at room temperature. Subsequently, ElaProof Pro S is batched and packaged. After manufacturing and packaging the equipment's are cleaned by washing with water and after treated as municipal wastewater waste. The packaging materials used consist of HDPE barrels (made of 50% recycled PE) on a wooden EUR -pallet.

### 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 determined according to the EPD Hub PCR. The average transportation distance from the plant to the construction site is calculated as 395 km from which 77% is placed under 100km, and it is assumed that all transportation is carried out by lorry. There is no loss in transportation as the products are properly packaged (A4).

The ElaProof Pro S product is recommended to be installed by professionals using high-pressure spray-gun for spraying 1-2 layers approximately 1,5 - 2,0 mm each to produce around 1,0 - 1,5 mm thick dry-film thickness (ds-% of the product is around 66). Before installation the coated area should be cleaned off from dust and external items, mainly only with water and/or dry brushing. Depending on the surface, it is recommended to open the surface with light grinding and especially when there are problems with the old surface attachments (floors) those loose parts should be removed or fixed first.

The installation mainly consists of roofings on to bitumen, steel and brick roofs from which steel is major.

After installation the equipment's are recommended to clean by washing only with water and after treated as municipal wastewater waste. The installation

material loss is calculated of the amount which is left on a spray-gun or on other installation equipment, from installation itself the material loss is negligible.

### **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 from which the product itself cannot be separated manually. The consumption of energy and natural resources varies depending on the demolition type; for this it is assumed to be the same as what the bitumen, metal or brick roofings would take and then for the product itself the impacts of demolition are assumed zero. The product itself as an unused product, when it is dried out first, can be treated as a household waste (C1). This part of the product waste has in these calculations been included as part of installation lost.

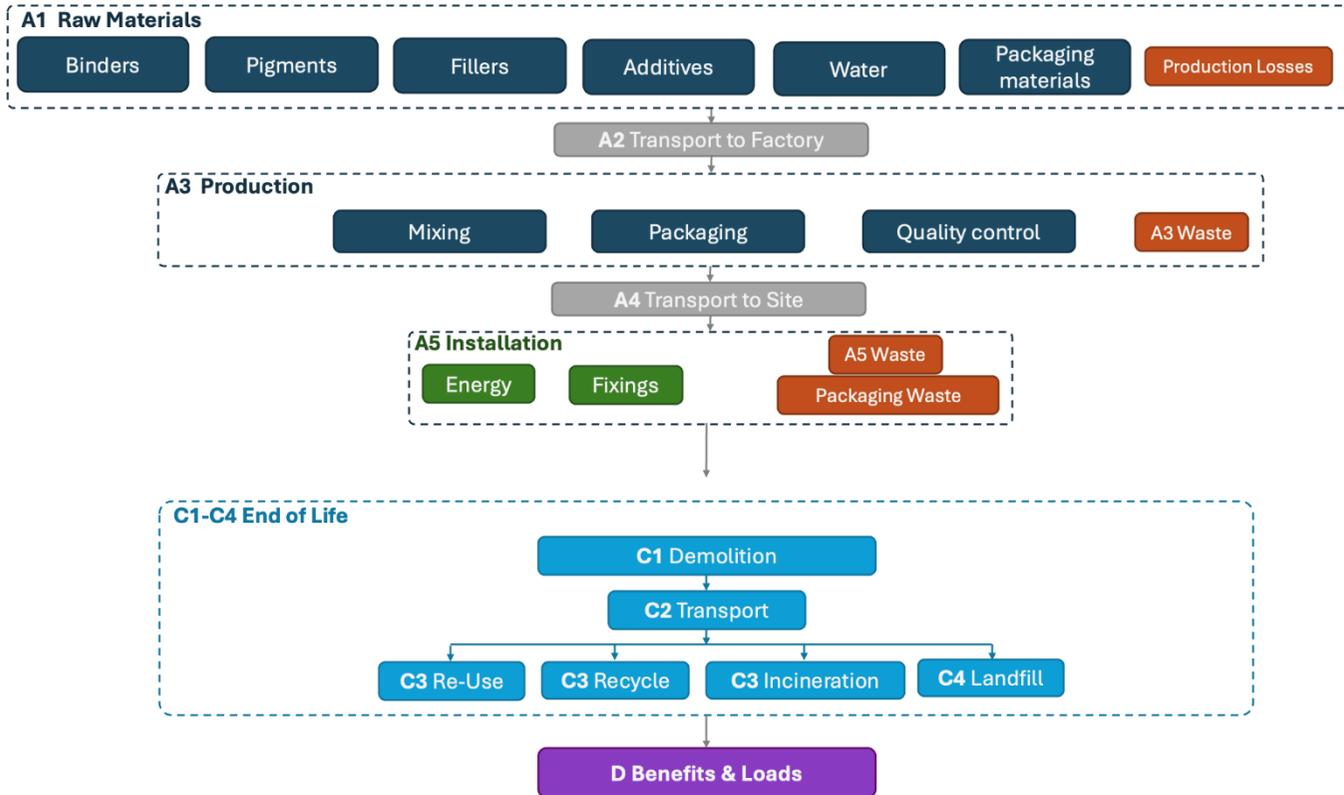
The average transportation distance has been calculated of the percentage of the surface waste material with the used datapoints waste treatment transportation distances. All end-of-life product is assumed to be sent to the closest facilities and is assumed to be in average of 130km distance from the demolition site (C2).

ElaProof Pro S end-of-life treatment was modeled based on the roofing material it would be applied to, considering brick, metal and bitumen roofs in Finland. The breakdown per steel, brick and bitumen are based on the sales data for the product and what kind of material is has been applied to. Then, per material the relevant scenarios have been taken (references in the comments section of the LCA). This considered a mix of recycling, re-use, incineration and landfill, for example bitumen after treatment consists of as from 100% bitumen is crushed to recycling for the asphalt production (C3-C4).

Benefits and load for the system is calculated as EU scenarios for plastic and wood packaging as well as surface treatments. The energy generated by burning packaging materials replaces fossil fuel, which is assumed to be oil. Packaging materials are re-used and recycled as many times as possible. The buckets and other plastic packaging materials are re-used or collected for recycling separately as plastic waste. Return rate of the pallets from the customer is around 50%. The calculation assumes that the waste incineration plant has co-generation of electricity and heat (Finland)(D).

# LIFE CYCLE DIAGRAM

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.

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	Partly allocated by mass or volume
Packaging material	Allocated by mass or volume
Ancillary materials	No allocation
Manufacturing energy and waste	Allocated by mass or volume

### PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	Multiple products
Grouping method	Based on a representative product
Variation in GWP-fossil for A1-A3, %	5,5

Covers all different colors of an indoor and an outdoor spray ElaProof Pro S and ElaProof Indoor Pro S products. Calculations are made with the biggest packaging size as gray color (the most representative product).

EPD HUB-0614, formally ElaProof S calculation, has been made for the color black and this updated version is calculated for the color gray. Slight differences between colors are negligible included the fact that changes

in regulations the recipe undergoes variations on for example biocides and additives. The standard deviation between raw materials within different colors is slightly above 5% of the total.

### 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	1,48E+00	1,41E-02	1,58E-02	1,51E+00	2,86E-02	7,04E-02	MND	0,00E+00	2,11E-02	7,39E-03	3,43E-04	-3,38E-01						
GWP – fossil	kg CO <sub>2</sub> e	1,47E+00	1,41E-02	5,40E-02	1,54E+00	2,86E-02	3,16E-02	MND	0,00E+00	2,11E-02	7,39E-03	3,43E-04	-3,37E-01						
GWP – biogenic	kg CO <sub>2</sub> e	2,55E-03	3,19E-06	-3,84E-02	-3,59E-02	6,47E-06	3,88E-02	MND	0,00E+00	4,65E-06	-1,46E-05	-1,09E-07	-1,43E-03						
GWP – LULUC	kg CO <sub>2</sub> e	4,93E-04	6,31E-06	2,34E-04	7,33E-04	1,28E-05	1,51E-05	MND	0,00E+00	9,33E-06	9,64E-06	1,96E-07	-2,68E-05						
Ozone depletion pot.	kg CFC <sub>-11</sub> e	2,05E-08	2,08E-10	1,91E-09	2,26E-08	4,22E-10	4,65E-10	MND	0,00E+00	3,04E-10	1,01E-10	9,95E-12	-5,02E-10						
Acidification potential	mol H <sup>+</sup> e	1,29E-02	4,81E-05	1,96E-04	1,32E-02	9,75E-05	2,67E-04	MND	0,00E+00	7,07E-05	8,37E-05	2,43E-06	-1,33E-03						
EP-freshwater <sup>2)</sup>	kg Pe	2,63E-04	1,10E-06	1,50E-05	2,79E-04	2,23E-06	6,09E-06	MND	0,00E+00	1,64E-06	4,50E-06	2,82E-08	-1,46E-04						
EP-marine	kg Ne	1,36E-03	1,58E-05	4,38E-05	1,42E-03	3,20E-05	3,57E-05	MND	0,00E+00	2,30E-05	1,93E-05	9,28E-07	-3,01E-04						
EP-terrestrial	mol Ne	1,18E-02	1,72E-04	4,46E-04	1,24E-02	3,48E-04	2,60E-04	MND	0,00E+00	2,51E-04	2,17E-04	1,01E-05	-3,31E-03						
POCP (“smog”) <sup>3)</sup>	kg NMVOCe	6,32E-03	7,08E-05	2,69E-04	6,66E-03	1,44E-04	1,38E-04	MND	0,00E+00	1,00E-04	6,47E-05	3,63E-06	-1,08E-03						
ADP-minerals & metals <sup>4)</sup>	kg Sbe	5,76E-06	3,93E-08	4,17E-07	6,22E-06	7,97E-08	1,27E-07	MND	0,00E+00	6,65E-08	4,67E-07	5,45E-10	-3,33E-06						
ADP-fossil resources	MJ	2,52E+01	2,05E-01	1,64E+00	2,70E+01	4,15E-01	5,53E-01	MND	0,00E+00	2,99E-01	1,00E-01	8,43E-03	-2,72E+00						
Water use <sup>5)</sup>	m <sup>3</sup> e depr.	9,49E-01	1,01E-03	3,39E-02	9,84E-01	2,05E-03	1,98E-02	MND	0,00E+00	1,42E-03	1,69E-03	2,43E-05	-5,77E-02						

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterization method and data are in kg P-eq. Multiply by 3,07 to get PO<sub>4</sub>e; 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	8,36E-08	1,41E-09	1,93E-09	8,69E-08	2,86E-09	1,82E-09	MND	0,00E+00	1,80E-09	1,61E-09	5,54E-11	-2,30E-08						
Ionizing radiation <sup>6)</sup>	kBq 11235e	5,33E-02	1,78E-04	2,82E-02	8,17E-02	3,61E-04	1,67E-03	MND	0,00E+00	2,51E-04	8,07E-04	5,30E-06	1,61E-02						
Ecotoxicity (freshwater)	CTUe	6,78E+00	2,89E-02	1,60E-01	6,97E+00	5,87E-02	1,57E-01	MND	0,00E+00	4,57E-02	5,53E-02	7,07E-04	-8,31E-01						
Human toxicity, cancer	CTUh	3,28E-10	2,33E-12	4,98E-11	3,80E-10	4,72E-12	7,86E-12	MND	0,00E+00	3,56E-12	6,04E-12	6,33E-14	-5,35E-11						
Human tox. non-cancer	CTUh	1,29E-07	1,32E-10	5,18E-10	1,30E-07	2,69E-10	2,62E-09	MND	0,00E+00	1,89E-10	4,06E-10	1,45E-12	-2,65E-09						
SQP <sup>7)</sup>	-	3,20E+00	2,06E-01	3,42E+00	6,83E+00	4,18E-01	1,51E-01	MND	0,00E+00	2,14E-01	1,80E-01	1,66E-02	-9,80E-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	9,33E-01	2,80E-03	4,34E-01	1,37E+00	5,68E-03	2,78E-02	MND	0,00E+00	4,13E-03	1,71E-02	8,13E-05	-2,26E-01						
Renew. PER as material	MJ	0,00E+00	0,00E+00	3,40E-01	3,40E-01	0,00E+00	-3,40E-01	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-9,03E-03						
Total use of renew. PER	MJ	9,33E-01	2,80E-03	7,73E-01	1,71E+00	5,68E-03	-3,12E-01	MND	0,00E+00	4,13E-03	1,71E-02	8,13E-05	-2,35E-01						
Non-re. PER as energy	MJ	1,92E+01	2,05E-01	3,07E-01	1,97E+01	4,15E-01	2,49E-01	MND	0,00E+00	2,99E-01	1,00E-01	8,43E-03	-2,72E+00						
Non-re. PER as material	MJ	5,93E+00	0,00E+00	1,18E+00	7,10E+00	0,00E+00	-1,18E+00	MND	0,00E+00	0,00E+00	-5,82E+00	-1,07E-01	-2,43E-01						
Total use of non-re. PER	MJ	2,52E+01	2,05E-01	1,48E+00	2,68E+01	4,15E-01	-9,27E-01	MND	0,00E+00	2,99E-01	-5,72E+00	-9,82E-02	-2,96E+00						
Secondary materials	kg	2,23E-02	8,71E-05	1,60E-02	3,84E-02	1,77E-04	7,74E-04	MND	0,00E+00	1,32E-04	1,12E-04	2,12E-06	1,89E-01						
Renew. secondary fuels	MJ	1,29E-04	1,11E-06	1,18E-02	1,19E-02	2,24E-06	2,39E-04	MND	0,00E+00	1,69E-06	5,03E-06	4,39E-08	-2,89E-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>	2,89E-02	3,02E-05	9,12E-04	2,98E-02	6,13E-05	2,62E-04	MND	0,00E+00	4,10E-05	2,25E-05	8,76E-06	-7,01E-04						

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	1,32E-01	3,47E-04	2,56E-03	1,35E-01	7,03E-04	2,73E-03	MND	0,00E+00	5,15E-04	6,07E-04	9,31E-06	-1,16E-01						
Non-hazardous waste	kg	4,56E+00	6,41E-03	3,65E-01	4,93E+00	1,30E-02	4,51E-01	MND	0,00E+00	9,65E-03	5,81E-02	2,13E-04	-7,76E-01						
Radioactive waste	kg	4,26E-04	4,36E-08	6,31E-06	4,32E-04	8,84E-08	8,65E-06	MND	0,00E+00	6,16E-08	2,06E-07	1,29E-09	4,19E-06						

### 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	1,70E-02	1,70E-02	0,00E+00	1,03E-02	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	0,00E+00	MND	0,00E+00	0,00E+00	5,66E-01	0,00E+00	0,00E+00						
Materials for energy rec	kg	0,00E+00	0,00E+00	1,98E-02	1,98E-02	0,00E+00	1,98E-02	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00						
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	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	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	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						

### 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	1,46E+00	1,40E-02	5,40E-02	1,53E+00	2,84E-02	3,14E-02	MND	0,00E+00	2,10E-02	7,37E-03	3,40E-04	-3,35E-01						
Ozone depletion Pot.	kg CFC <sub>11</sub> e	1,69E-08	1,66E-10	1,57E-09	1,86E-08	3,37E-10	3,83E-10	MND	0,00E+00	2,42E-10	8,27E-11	7,90E-12	-7,51E-10						
Acidification	kg SO <sub>2</sub> e	1,13E-02	3,67E-05	1,59E-04	1,15E-02	7,44E-05	2,33E-04	MND	0,00E+00	5,41E-05	6,70E-05	1,80E-06	-1,07E-03						
Eutrophication	kg PO <sub>4</sub> <sup>3</sup> e	3,78E-03	8,94E-06	3,58E-04	4,14E-03	1,81E-05	8,78E-05	MND	0,00E+00	1,32E-05	1,01E-05	5,73E-07	-1,87E-04						
POCP (“smog”)	kg C <sub>2</sub> H <sub>4</sub> e	9,50E-04	3,27E-06	2,05E-05	9,73E-04	6,63E-06	1,97E-05	MND	0,00E+00	4,85E-06	4,02E-06	1,70E-07	-1,72E-04						
ADP-elements	kg Sbe	5,57E-06	3,84E-08	4,12E-07	6,02E-06	7,78E-08	1,23E-07	MND	0,00E+00	6,49E-08	4,65E-07	5,35E-10	-3,33E-06						
ADP-fossil	MJ	2,36E+01	2,02E-01	1,23E+00	2,50E+01	4,09E-01	5,13E-01	MND	0,00E+00	2,95E-01	8,65E-02	8,34E-03	-3,01E+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 <sup>9)</sup>	kg CO <sub>2</sub> e	1,47E+00	1,41E-02	5,42E-02	1,54E+00	2,86E-02	3,16E-02	MND	0,00E+00	2,11E-02	7,40E-03	3,44E-04	-3,37E-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 characterization 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 characterization 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	Electricity, medium voltage, residual mix (Reference product: electricity, medium voltage)
Electricity CO2e / kWh	0,66
District heating data source and quality	Electricity, medium voltage, residual mix (Reference product: electricity, medium voltage)
District heating CO2e / kWh	0,66

### Transport scenario documentation A4

Scenario parameter	Value
Fuel and vehicle type. Eg, electric truck, diesel powered truck	Market for transport, freight, lorry >32 metric ton, EURO5
Average transport distance, km	395
Capacity utilization (including empty return) %	50
Bulk density of transported products	-
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	0,1 (water)
Water use / m <sup>3</sup>	0,00010
Other resource use / kg	0
Quantitative description of energy type (regional mix) and consumption during the installation process / kWh or MJ	0
Waste materials on the building site before waste processing, generated by the product's installation (specified by type) / kg	0,0488 (pallet and barrel) 0,0216 (pallet, 50% is recycled of original pallet -> 32% is recycled as waste) 0,0272 (barrel; 50% is recycled of original barrel -> 40% is recycled as waste)
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	0,623 (dry coating on surface) 0,343 (55% steel surface; 85% recycling, 15% landfill) 0,062 (10% brick surface; 93,6% recycling, 6,4% landfill) 0,218 (35% bitumen surface; 100% recycled)
Direct emissions to ambient air, soil and water / kg	0

**End of life scenario documentation**

Scenario information	Value
Collection process – kg collected separately	0,0488
Collection process – kg collected with mixed waste	0,623
Recovery process – kg for re-use	0,0108
Recovery process – kg for recycling	0,590
Recovery process – kg for energy recovery	0,0136
Disposal (total) – kg for final deposition	0,055
Scenario assumptions e.g. transportation	130 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 is filed at EPD Hub. EPD Hub PCR and ECO Platform verification checklist are used.

EPD Hub cannot 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

