ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

ElaProof Classic H
Build Care Oy

EPD HUB, HUB- 3793
Publishing date 10 August 2025, last updated on 10 August 2025, valid until 09 August 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	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	Sister EPD
Parent EPD number	HUB-3052
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: ☐ Internal verification ☑ External verification
EPD verifier	Magaly González Vázquez, 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 Classic H
Additional labels	ElaProof Classic H & ElaProof Indoor H
Product reference	1010, 1010W, 1010G, 1010R, 1050, 1050W, 1050G, 1050R, 1050RR11, 1050RR23, 1050RR32, 3050W, 3050G, 3150W, 3150G
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 (%)	4,9
GTIN (Global Trade Item Number)	6430068690006; 6430068690143; 6430068691218; 6430068690150; 6430068691225; 6430068691232; 6430068691249; 6430068690013; 6430068690181; 6430068691256; 6430068690198; 6430068690761; 6430068691119; 6430068690778; 6430068690310; 6430068690235; 6430068690327; 6430065690242;
NOBB (Norwegian Building Product Database)	-
A1-A3 Specific data (%)	3

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 kg
Declared unit mass	1 kg
GWP-fossil, A1-A3 ($kgCO_2e$)	1,55
GWP-total, A1-A3 ($kgCO_2e$)	1,49
Secondary material, inputs (%)	2,53
Secondary material, outputs (%)	58,4
Total energy use, A1-A3 (kWh)	5,96
Net freshwater use, A1-A3 (m^3)	0,22

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. Our product portfolio 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. Build Care Oy was established in 1990 in Turku, Finland, and we are based in Vantaa (Helsinki area), Finland. Our quality products are made in Finland.

PRODUCT DESCRIPTION

This EPD is an updated version of the ElaProof H EPD due the name changes and more accurate datapoints, and it covers ElaProof Classic H (here and later including also ElaProof Indoor H) range of coatings both outdoor and indoor use for professionals and DIY types. This EPD of multiple products, is based on a representative product; ElaProof Classic H, color: gray with packaging size of 15L. The center deviation between raw materials within different colors is below 5% of the total. The EPD of ElaProof Classic H is a sister EPD for ElaProof Pro S (formally known as ElaProof S). ElaProof Classic H is recommended to use as a sealant for cracks, corners and joints with specific tapes or fabric, but can be use as its own to seal minor separations. For the GWP value the service life is not included, because the service life depends on the surface product on which ElaProof Classic H is outspread. EPD of multiple products, based on a representative product.

ElaProof Classic H is water-based polyacrylic emulsion, an economical one-component product. It is iso-cyanate and solvent free, with viscosity level commonly more that 25t mPaS. ElaProof Classic H has pH around 8, so it is neutral with very low odor. ElaProof Classic H can be spread with hands using spatula or brush. The product can be diluted as well as tools cleaned only with water. Our product is listed in the Nordic Ecolabelling construction product database and can be used in Swan-labelled buildings.

The range of ElaProof Indoor H is ideal for a long-lasting and a waterproofing protective layer, sealing indoor air leaks and radon, and as an indoor shape it is M1 approved with an EMICODE EC 1+. ElaProof Classic H (Indoor and Outdoor) is also CE marked construction product based to EN 13813 and EN 1504-2. ElaProof Classic H has classified with reaction to fire as C-s1 d0, and as a roof coating Broof(t2) which makes it suitable for the most for the roofing's.
ElaProof Classic H (both indoor and outdoor use) 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). The reason the product has solid contain around 66 v/v%, density around 1,16 kg/L, 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/m2) to get at least 1,5 mm thick dry layer. The needed thickness can be spread with 2 layers. When using as a sealant (corners, folding's, bridging cracks), the use of support fabric ribbon between layers is recommended.

ElaProof Classic H comes with seven different colors (black, light gray, dark gray, white, red, green and brown) and ElaProof Indoor H with two different colors (light gray and white), both can be customized by color if needed. The calculations of this EPD have been made for the color dark gray. ElaProof Classic H comes with two different packaging size (sample size 1L and sale size 5L) and ElaProof Indoor H with two sale sizes 5L and 15L. The calculations have been made for the biggest packaging size.

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	26	Europa
Fossil materials	34	Europa
Bio-based materials	0	-
Water	40	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	0,0191

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

The raw materials are delivered to the Build Care 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 Classic H 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 PP buckets (100% recycled of buckets, 100% virgin material of lids and handles) on a wooden EUR -pallet.

The use of green energy in manufacturing is demonstrated through contractual instruments (GOs, RECs, etc.), and its use is ensured throughout the validity period of this EPD.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

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 530 km from which 65% is placed under 100km, and it is assumed that all transportation is carried out by lorry. The transportation is handed by the customer when picking up the order (various vehicles, mostly vans) from the company's warehouse or it is sent from the warehouse with the customer's order (most commonly lorry). There is no loss in transportation as the products are properly packaged (A4).

ElaProof Classic H is always installed by hand on the original surface for prolonging its lifetime or as a sealer of joints. Before installation the coated area should be cleaned off from dust and external items, mainly only with water and/or dry brushing/vacuuming. 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 ElaProof Classic H product can be installed by professionals or DIY using spatula or brush for spreading 1-2 layers approximately 1,5 - 2,0 mm each to produce around 1,0 - 2,0 mm dry-film thickness (ds-% of the product is around 65). The product can be diluted, when needed, as well as equipment's can be cleaned only with water. After installation the product dries out via water evaporation losing its thickness around 50% depending on its water content. For using the product as a sealer or bridging cracks, corners, and fold, is recommended to use supporting fabric ribbon between layers.

The installation scenario consists of roofings and floorings on to bitumen, steal, and brick surfaces, as the product is made for both indoor and outdoor use.

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 bucket 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 may not 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, steel, or brick surfaces would take, and then for the product itself the impacts of demolition are assumed zero. The unused ElaProof Classic H can be, when dried out, disposed like buckets can as a household waste (C1).

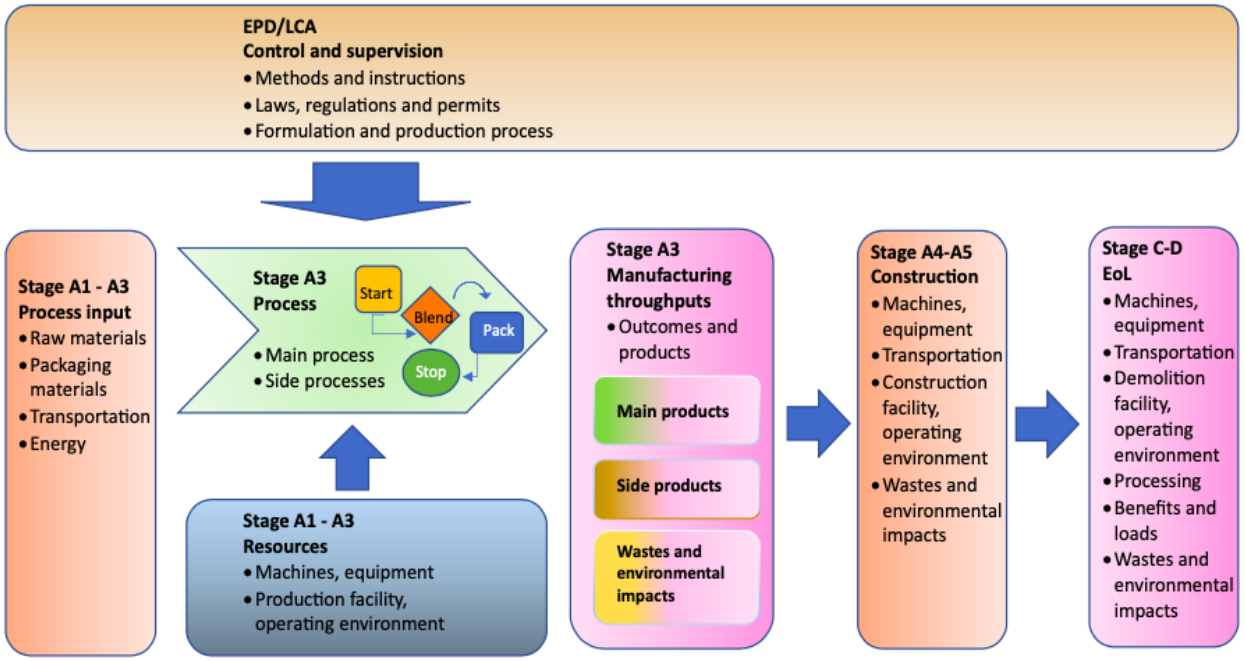
The average transportation distance has been calculated of the percentage of the surface waste material with the used datapoints waste treatment transportation distances. All end-of-life product is assumed to be sent to the closest facilities and is assumed to be in average of 96 km distance from the demolition site (C2).

ElaProof Classic H end-of-life treatment was modeled based on the building material it would be applied to, considering brick, steel, and bitumen surfaces in Finland. The percentage of surfaces in the calculations has been made of the sales info and assumptions of the average coverage on the building roofs mainly in Finland. 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).

MANUFACTURING PROCESS

Description of the EPD process of the production:



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.

The water in raw materials is included and at the End of Life calculated as dry solids. The water content included as binders which evaporates at the End of Life (by drying); we do not add water, nor it is a material loss.

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, %	4,9

Covers all different colors of an indoor and an outdoor hand spreadable ElaProof Classic H (Indoor H) product with different packaging sizes. Calculations are made with the biggest packaging size as gray color (the most representative product).

Calculation has been made for the color gray, as in ElaProof Pro S (for the color gray, the parent EPD HUB-0614, formally ElaProof S calculation has been

made for the color black). 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.

Raw materials are the same as in ElaProof Pro S (Indoor Pro S), the only difference is the viscosity level; ElaProof Classic H (Indoor H) is higher in viscosity that ElaProof Pro S.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1 environmental data sources follow the methodology ‘allocation, Cut-off, EN 15804+A2‘.

ENVIRONMENTAL IMPACT DATA

The estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks.

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total[1)]	kg CO_2e	1,47E+00	1,79E-02	1,39E-03	1,49E+00	2,58E-02	1,43E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,24E-02	8,50E-03	3,37E-04	-1,71E-01
GWP – fossil	kg CO_2e	1,46E+00	1,79E-02	6,94E-02	1,55E+00	2,58E-02	6,09E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,24E-02	8,50E-03	3,37E-04	-1,70E-01
GWP – biogenic	kg CO_2e	2,54E-03	4,04E-06	-6,81E-02	-6,56E-02	5,85E-06	8,25E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,63E-06	-1,26E-05	-1,07E-07	-1,04E-03
GWP – LULUC	kg CO_2e	4,92E-04	7,99E-06	1,07E-04	6,08E-04	1,15E-05	9,82E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,15E-06	1,31E-05	1,93E-07	-8,64E-06
Ozone depletion pot.	kg $CFC\text{-}_{11}$e	1,97E-08	2,64E-10	1,85E-09	2,18E-08	3,81E-10	2,59E-10	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,95E-10	1,22E-10	9,76E-12	4,76E-11
Acidification potential	mol H^+e	1,31E-02	6,09E-05	2,67E-04	1,34E-02	8,80E-05	1,53E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,05E-05	7,66E-05	2,39E-06	-6,75E-04
EP-freshwater[2)]	kg Pe	2,77E-04	1,39E-06	1,10E-05	2,89E-04	2,01E-06	4,00E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	9,19E-07	3,77E-06	2,77E-08	-7,42E-05
EP-marine	kg Ne	1,37E-03	2,00E-05	5,15E-05	1,45E-03	2,89E-05	3,57E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,33E-05	2,19E-05	9,11E-07	-1,55E-04
EP-terrestrial	mol Ne	1,19E-02	2,18E-04	5,42E-04	1,27E-02	3,15E-04	2,04E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,45E-04	2,41E-04	9,95E-06	-1,72E-03
POCP ("smog")[3)]	kg NMVOCe	6,33E-03	8,98E-05	2,02E-04	6,62E-03	1,30E-04	8,95E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,86E-05	7,40E-05	3,56E-06	-5,34E-04
ADP-minerals & metals[4)]	kg Sbe	5,46E-06	4,98E-08	1,47E-07	5,66E-06	7,20E-08	7,10E-08	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,03E-08	2,69E-07	5,36E-10	-1,70E-06
ADP-fossil resources	MJ	2,48E+01	2,59E-01	1,23E+00	2,63E+01	3,74E-01	3,02E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,74E-01	1,19E-01	8,27E-03	-1,20E+00
Water use[5)]	m^3e depr.	9,46E-01	1,28E-03	2,12E-02	9,68E-01	1,85E-03	1,15E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	8,23E-04	1,36E-03	2,39E-05	-3,17E-02

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	8,72E-08	1,79E-09	8,50E-09	9,75E-08	2,58E-09	1,25E-09	MND	MND	MND	MND	MND	MND	MND	0,00E+00	9,90E-10	3,99E-09	5,44E-11	-1,20E-08
Ionizing radiation[6)]	kBq U235e	5,23E-02	2,26E-04	1,55E-02	6,80E-02	3,26E-04	8,22E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,66E-04	5,94E-04	5,20E-06	9,59E-03
Ecotoxicity (freshwater)	CTUe	6,86E+00	3,67E-02	5,88E-01	7,49E+00	5,30E-02	1,15E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,60E-02	5,25E-02	6,94E-04	-4,23E-01
Human toxicity, cancer	CTUh	3,43E-10	2,95E-12	9,96E-11	4,46E-10	4,26E-12	7,57E-12	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,10E-12	4,29E-12	6,22E-14	-2,69E-11
Human tox. non-cancer	CTUh	1,29E-07	1,68E-10	6,14E-10	1,29E-07	2,42E-10	1,44E-09	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,09E-10	2,64E-10	1,43E-12	-1,34E-09
SQP[7)]	-	3,21E+00	2,61E-01	5,60E+00	9,07E+00	3,77E-01	1,37E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,07E-01	1,49E-01	1,63E-02	-5,10E-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[8)]	MJ	9,23E-01	3,55E-03	5,00E-01	1,43E+00	5,13E-03	-5,27E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,57E-03	1,17E-02	7,99E-05	-1,10E-01
Renew. PER as material	MJ	0,00E+00	0,00E+00	5,97E-01	5,97E-01	0,00E+00	-5,97E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-5,02E-03
Total use of renew. PER	MJ	9,23E-01	3,55E-03	1,10E+00	2,02E+00	5,13E-03	-1,12E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,57E-03	1,17E-02	7,99E-05	-1,15E-01
Non-re. PER as energy	MJ	1,89E+01	2,59E-01	8,14E-01	2,00E+01	3,74E-01	-1,27E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,74E-01	1,19E-01	8,27E-03	-1,20E+00
Non-re. PER as material	MJ	5,92E+00	0,00E+00	-7,66E-02	5,84E+00	0,00E+00	-3,94E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	-5,70E+00	-1,04E-01	-2,42E-01
Total use of non-re. PER	MJ	2,48E+01	2,59E-01	7,38E-01	2,58E+01	3,74E-01	-1,31E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,74E-01	-5,58E+00	-9,62E-02	-1,44E+00
Secondary materials	kg	2,53E-02	1,10E-04	2,38E-03	2,78E-02	1,59E-04	3,46E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,84E-05	8,66E-05	2,08E-06	9,63E-02
Renew. secondary fuels	MJ	1,29E-04	1,40E-06	2,02E-02	2,03E-02	2,02E-06	2,04E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	9,95E-07	3,00E-06	4,31E-08	-1,52E-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	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	2,89E-02	3,83E-05	1,94E-01	2,23E-01	5,54E-05	1,83E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,33E-05	-1,31E-04	8,60E-06	-3,83E-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	1,53E-01	4,39E-04	3,93E-03	1,57E-01	6,34E-04	2,18E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,87E-04	4,97E-04	9,14E-06	-6,08E-02
Non-hazardous waste	kg	4,58E+00	8,13E-03	2,32E-01	4,82E+00	1,17E-02	5,31E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,55E-03	2,42E-01	2,09E-04	-3,44E-01
Radioactive waste	kg	4,26E-04	5,53E-08	4,09E-06	4,30E-04	7,98E-08	4,33E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,08E-08	1,50E-07	1,27E-09	2,49E-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	5,70E-03	5,70E-03	0,00E+00	1,57E-04	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	0,00E+00	0,00E+00	0,00E+00	2,60E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	5,84E-01	0,00E+00	0,00E+00
Materials for energy rec	kg	0,00E+00	0,00E+00	2,00E-02	2,00E-02	0,00E+00	1,00E-02	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	2,70E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy – Electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,15E-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 – Heat	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,55E-01	MND	MND	MND	MND	MND	MND	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_2e	1,45E+00	1,78E-02	6,85E-02	1,54E+00	2,57E-02	6,15E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,23E-02	8,47E-03	3,34E-04	-1,69E-01
Ozone depletion Pot.	kg CFC_{-11}e	1,63E-08	2,10E-10	1,59E-09	1,81E-08	3,04E-10	2,15E-10	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,56E-10	9,91E-11	7,75E-12	-1,42E-10
Acidification	kg SO_2e	1,15E-02	4,65E-05	2,20E-04	1,18E-02	6,72E-05	1,31E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,09E-05	5,97E-05	1,77E-06	-5,39E-04
Eutrophication	kg PO_4^3e	3,76E-03	1,13E-05	7,93E-04	4,57E-03	1,64E-05	5,43E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,63E-06	1,09E-05	5,62E-07	-8,89E-05
POCP (“smog”)	kg C_2H_4e	9,52E-04	4,14E-06	2,22E-05	9,78E-04	5,99E-06	1,12E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,82E-06	3,87E-06	1,67E-07	-8,77E-05
ADP-elements	kg Sbe	5,26E-06	4,86E-08	1,45E-07	5,45E-06	7,02E-08	6,85E-08	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,94E-08	2,68E-07	5,25E-10	-1,70E-06
ADP-fossil	MJ	2,33E+01	2,56E-01	1,36E+00	2,50E+01	3,69E-01	2,86E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,71E-01	1,09E-01	8,19E-03	-1,38E+00

ADDITIONAL INDICATOR – GWP-GHG

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG[9)]	kg CO_2e	1,47E+00	1,79E-02	6,95E-02	1,55E+00	2,58E-02	6,09E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,24E-02	8,51E-03	3,37E-04	-1,70E-01

9) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. In addition, the characterisation factors for the flows – CH4 fossil, CH4 biogenic and Dinitrogen monoxide – were updated. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterisation factor for biogenic CO2 is set to zero.

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	530
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	0,0001
Water use / m^3	0,0000001
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	0,0765 (pallet and bucket) 0,038 (pallet, 50% is recycled of original pallet -> 32% is recycled as waste) 0,0385 (bucket; 50% is recycled of original bucket -> 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	0,641 (dry coating on surface) 0,192 (30% steel surface; 85% recycling, 15% landfill) 0,384 (60% brick surface; 93,6% recycling, 6,4% landfill) 0,064 (10% 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	0,0765
Collection process – kg collected with mixed waste	0,641
Recovery process – kg for re-use	0,019
Recovery process – kg for recycling	0,613
Recovery process – kg for energy recovery	0,013
Disposal (total) – kg for final deposition	0,0622
Scenario assumptions e.g. transportation	96 km by lorry

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

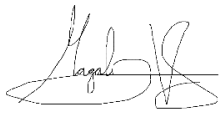
I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Environmental Product Declaration (EPD), its LCA and project report, in terms of the data collected and used in the LCA calculations, the way the LCA-based calculations have been carried 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
10.08.2025



VERIFIED ISO 14025