

## ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025:2006 and  
EN 15804:2012+A2:2019/AC:2021 for:



The International EPD® System  
Programme operator: EPD International AB  
Registration number: EPD-IES- 0030261:001



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conditions change. To find the latest version  
of the EPD and to confirm its validity, see:  
[www.environdec.com](http://www.environdec.com)

## Isover PROFI FASSADE PRIME

**Primer for decorative renders**  
EPD of multiple products, based on  
representative product

**Version 01**

**Version date: 2026/03/15**

**Validity: 5 years**

**Validity date: 2031/03/14**



ISOVER, Saint-Gobain Construction Products Romania

# GENERAL INFORMATION

## Programme information

|                   |                                                                    |
|-------------------|--------------------------------------------------------------------|
| <b>PROGRAMME:</b> | The International EPD® System                                      |
| <b>ADDRESS:</b>   | EPD International AB - Box 210 60 - SE-100 31 Stockholm – Sweden   |
| <b>WEBSITE:</b>   | <a href="http://www.environdec.com">www.environdec.com</a>         |
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## PCR information

### Product Category rules (PCR)

CEN standard EN 15804:2012+A2:2019/AC:2021 as the Core Product Category Rules (PCR)

**Product category rules (PCR):** PCR 2019:14 Construction Products, version 2.0.1

**PCR review was conducted by:** The Technical Committee of the International EPD® System

See [www.environdec.com](http://www.environdec.com) for a list of members.

**C-PCR :** 2019:14-c-PCR-017 Technical-chemical products (for construction sector) (c-PCR to PCR 2019:14) adopted from EPD Norway 2022-07-08

**Chairs of the PCR review:** Rob Rouwette (chair), Noa Meron (co-chair).

## Verification

External and independent ('third-party') verification of the declaration and data, according to ISO 14025:2006, via

EPD verification through:

- ☒ Individual EPD verification without a pre-verified LCA/EPD tool
- ☐ Individual EPD verification with a pre-verified LCA/EPD tool
- ☐ EPD process certification\* without a pre-verified LCA/EPD tool
- ☐ EPD process certification\* with a pre-verified LCA/EPD tool
- ☐ Fully pre-verified EPD tool

### Independent third-party verification of the declaration and data, according to ISO 14025:2006:

- ☒ EPD verification by individual verifier

**Third party verifier:** prof. Ing. Silvia Vilčeková, PhD., Silcert, s.r.o.

tel.:+421907993033, Company: Silcert, s.r.o.

**C-PCR :** 2019:14-c-PCR-017 Technical-chemical products (for construction sector) (c-PCR to PCR 2019:14) adopted from EPD Norway 2022-07-08

Approved by: The International EPD® System

**Procedure for follow-up of data during EPD validity involves third part verifier:** ☐ Yes ☒ No

## Ownership and limitation on use of EPD

The EPD owner has the sole ownership, liability and responsibility for the EPD.

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterization factors); and be valid at the time of comparison.

## Information about EPD Owner

**Address and contact information about the EPD owner:** Saint-Gobain Construction Products România, Calea Floreasca, no.165, One United Tower, Code 014459, București, România

**Description of the organization of the EPD owner:** Saint-Gobain designs, manufactures and distributes materials and services for the construction and industrial markets.

Its integrated solutions for the renovation of public and private buildings, light construction and the decarbonization of construction and industry are developed through a continuous innovation process and provide sustainability and performance.

**Management system-related certification:** ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

**LCA practitioner:** Ana-Maria Dumitru (ana-maria.dumitru@saint-gobain.com) Saint-Gobain România

**Communication:** The intended use of this EPD is for B2B communication.

## Product information

**Product name:** Isover PROFI FASSADE PRIME

**Visual representation of the product:**



**UN CPC CODE:** UN CPC CODE: 37510 Non-refractory mortars and concretes

**Manufacturing site(s):** DURAZIV, by Saint-Gobain Construction Products, Popești- Leordeni, Ilfov, România

## Product description

Isover PROFI FASSADE PRIME is a product based on silicone dispersions with the addition of special additives and quartz sand. It is used to for priming exterior and interior surfaces before applying decorative plasters in order to regulate the absorption of the substrate, increase the degree of adhesion and prevent the finishing product from drying too quickly, thus making it easier to apply. Also, it prevents the appearance of cracks and provides anti-algae and anti-fungal protection. Multiple color availability.

For more information: <https://www.isover.ro/products/isover-profi-fassade-prime#descriere>

All figures in this EPD refer to **Isover PROFI FASSADE PRIME**

| Description                | Value | Unit    |
|----------------------------|-------|---------|
| Isover PROFI FASSADE PRIME | 1     | Kg / DU |
| Lifespan                   | 50    | Years   |

## Technical data/physical characteristics:

| Parameter                       | Value / Description |                          |
|---------------------------------|---------------------|--------------------------|
| Density (g/ml)                  | 1,65±0,05           | SR EN ISO 2811- 1 : 2023 |
| Installation information (g/m²) | 250-300             | -                        |

## Content declaration

Description of the main components and/or materials:

| Product components        | Weight (kg) | Post-consumer recycled material weight (%) | Biogenic material, kg C/kg of DU or FU |
|---------------------------|-------------|--------------------------------------------|----------------------------------------|
| Binder                    | 0.00        | 0%                                         | 0                                      |
| Minerals                  | 0.59        | 0%                                         | 0                                      |
| Additives                 | 0.41        | 0%                                         | 0.0008                                 |
| <b>Sum</b>                | <b>100%</b> | <b>0</b>                                   |                                        |
| Packaging materials       | Weight (kg) | Weight versus the product (%)              | Biogenic material, kg C/kg of DU or FU |
| Cardboard                 | 0.0006      | 0.0006                                     | 2.58E-04                               |
| Polyethylene film (LDPE)  | 0.00016     | 0.00016                                    | 0                                      |
| Polyethylene parts (LDPE) | 0.0224      | 0.0224                                     | 0                                      |
| Wooden pallet             | 0.033333333 | 0.033333333                                | 1.37E-02                               |

## Hazardous substances

At the date of issue of this declaration, there is no “Substance of Very High Concern” (SVHC) in concentration above 0.1% by weight, and neither do their packaging, following the European REACH regulation (Registration, Evaluation, Authorization and Restriction of Chemicals).

## LCA information

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TYPE OF EPD</b>                           | Cradle to gate with options, module C1-C4, module D and optional modules (A4–A5 + B1–B7).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>DECLARED UNIT</b>                         | 1 kg of product                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>SYSTEM BOUNDARIES</b>                     | Cradle to gate with options, module C1-C4, module D and optional modules (A4–A5 + B1–B7).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>REFERENCE SERVICE LIFE (RSL)</b>          | The Reference Service Life (RSL) of the mortar product is 50 years. This 50-year value is the amount of time that we recommend our products last for without refurbishment and corresponds to standard building design life.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>CUT-OFF RULES</b>                         | <p>In the case that there is not enough information, the process energy and materials representing less than 1% of the whole energy and mass used can be excluded (if they do not cause significant impacts). The addition of all the inputs and outputs excluded cannot be bigger than 5% of the whole mass and energy used, as well of the emissions to environment occurred.</p> <p>Flows related to human activities such as employee transport are excluded.</p> <p>The construction of plants, production of machines and transportation systems are excluded since the related flows are supposed to be negligible compared to the production of the building product when compared at these systems lifetime level.</p> |
| <b>ALLOCATIONS</b>                           | <p>Allocation has been avoided when possible and when not possible a mass allocation has been applied.</p> <p>The polluter pays and the modularity principles as well have been followed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>DATA QUALITY ASSESSMENT</b>               | <p>Data quality of primary and secondary data had been judged by its precision (measured, calculated, or estimated), completeness (e.g., unreported emissions), consistency (degree of uniformity of the methodology applied), and representativeness (geographical, technological, and temporal).</p>                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>GEOGRAPHICAL COVERAGE AND TIME PERIOD</b> | <p>Scope: Europe</p> <p>Data is collected from one production site DURAZIV located in România, Popești- Leordeni, Ilfov county</p> <p>Data collected for the year 2025</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>BACKGROUND DATA SOURCE</b>                | The databases Sphera CUP2024.2 and ecoinvent v.3.10 EF Package 3.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>SOFTWARE</b>                              | Sphera LCA for experts (GaBi) 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Data quality declaration

|                                                              |                                                                                      |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Data Collection</b>                                       | 01/01/2025 to 31/12/2025                                                             |
| <b>Sites used</b>                                            | <b>DURAZIV, by Saint-Gobain România</b> , Popești- Leordeni,                         |
| <b>Geography</b>                                             | Produce in România<br>Sold in România<br>Use and disposal in România                 |
| <b>Technology</b>                                            | Ready-to-use products are obtained by mixing minerals and some additives with water. |
| <b>Averaging</b>                                             | Production weighted average covering 100 % of production by the company              |
| <b>LCI/LCA database</b>                                      | Sphera CUP2024.2 and ecoinvent v.3.10                                                |
| <b>EPD used</b>                                              | None                                                                                 |
| <b>Data Quality Scheme</b>                                   | EN 15804:2012+A2:2019, Annex E, Table E.2                                            |
| <b>Use of Fair data with more than 30 % of a core impact</b> | None                                                                                 |
| <b>Use of Poor relevant data</b>                             | None                                                                                 |
| <b>Use of Very Poor relevant data</b>                        | None                                                                                 |

| Process                                                | Source type | Source                        | Reference year | Data category                | A1-A3 GWP-GHG [kg CO2 eq.] |
|--------------------------------------------------------|-------------|-------------------------------|----------------|------------------------------|----------------------------|
| <b>Manufacturing process</b>                           |             |                               |                |                              |                            |
| Energy Primary                                         | Database    | Sphera 2024.2                 | <5 years old   | Primary data                 | 1.5 %                      |
| <b>Transportation (only if Primary data collected)</b> |             |                               |                |                              |                            |
| A2_Transport_Primary                                   | Database    | Sphera 2024.2 /ecoinvent 3.10 | <5 years old   | Primary data, secondary data | 2.41%                      |
| <b>Background datasets in A1-A3</b>                    |             |                               |                |                              |                            |
| Other processes                                        | Database    | Sphera 2024.2 /ecoinvent 3.10 | <5 years old   | Secondary data               | 96%                        |
| <b>Total share of primary data</b>                     |             |                               |                |                              | <b>3.9%</b>                |

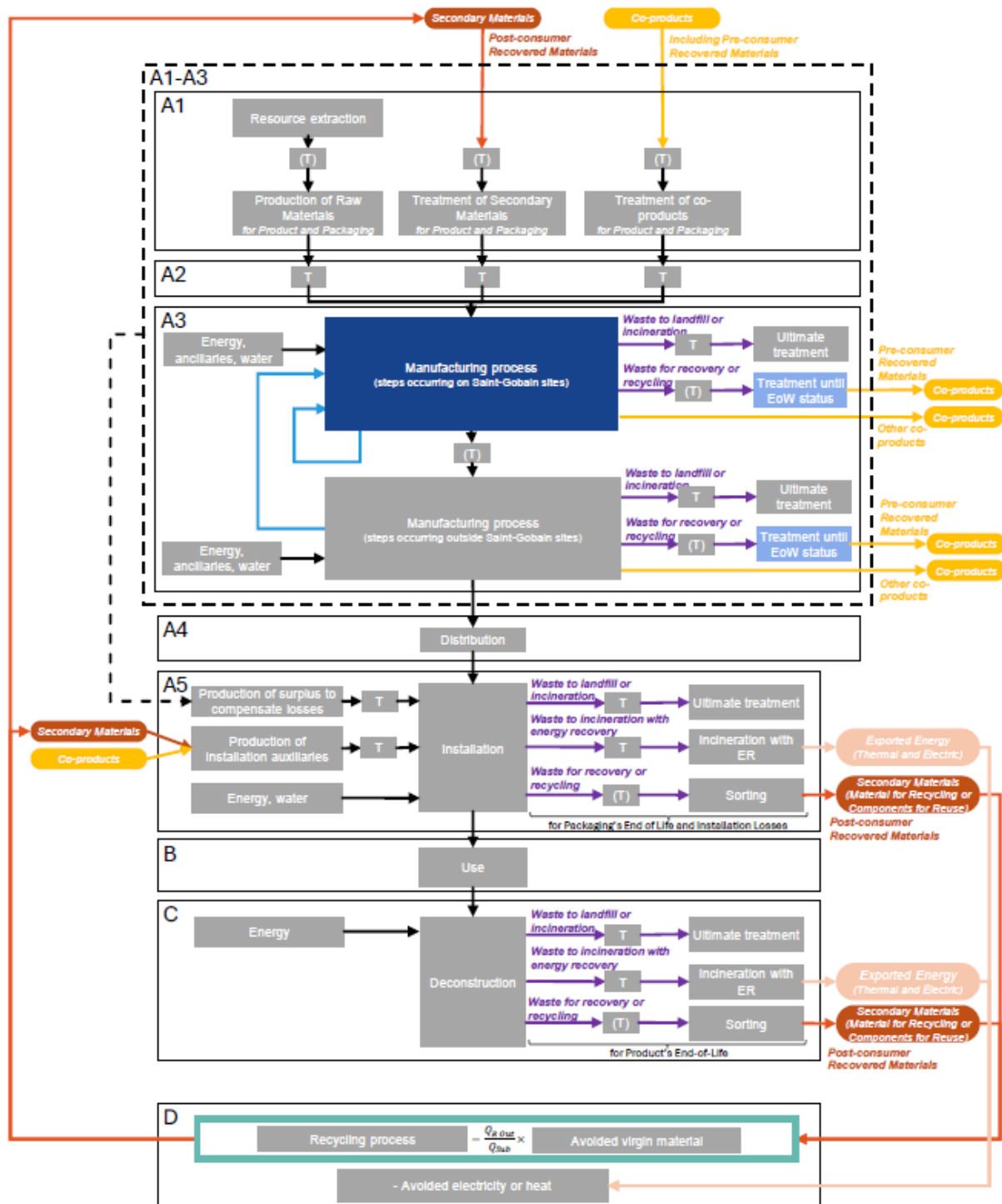
|                      |          |
|----------------------|----------|
| <b>A1-A3 GWP-GHG</b> | 1.23E+00 |
|----------------------|----------|

## Description of system boundaries

System boundaries (X=included. MND=module not declared)

|                  | PRODUCT STAGE       |           |               | CONSTRUCTION STAGE |                                   | USE STAGE |             |        |             |               |                        |                       | END OF LIFE STAGE          |           |                  |          | BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARY |
|------------------|---------------------|-----------|---------------|--------------------|-----------------------------------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|----------|-----------------------------------------------|
|                  | Raw material supply | Transport | Manufacturing | Transport          | Construction-Installation process | Use       | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-construction demolition | Transport | Waste processing | Disposal | Reuse-recovery                                |
| Module           | A1                  | A2        | A3            | A4                 | A5                                | B1        | B2          | B3     | B4          | B5            | B6                     | B7                    | C1                         | C2        | C3               | C4       | D                                             |
| Modules declared | X                   | X         | X             | X                  | X                                 | X         | X           | X      | X           | X             | X                      | X                     | X                          | X         | X                | X        | X                                             |
| Geography        | EU/CN               | EU/CN     | RO            | RO                 | RO                                | RO        | -           | -      | -           | -             | -                      | -                     | RO                         | RO        | RO               | RO       | RO                                            |

System boundaries when the end-of-waste state is reached:



## Life cycle stages

### A1-A3. Product stage

The product stage of plaster products is subdivided into 3 modules A1, A2 and A3 respectively “raw material supply”, “transport to manufacturer” and “manufacturing”.

#### A1. Raw materials supply

This module includes the extraction and transformation of raw materials.

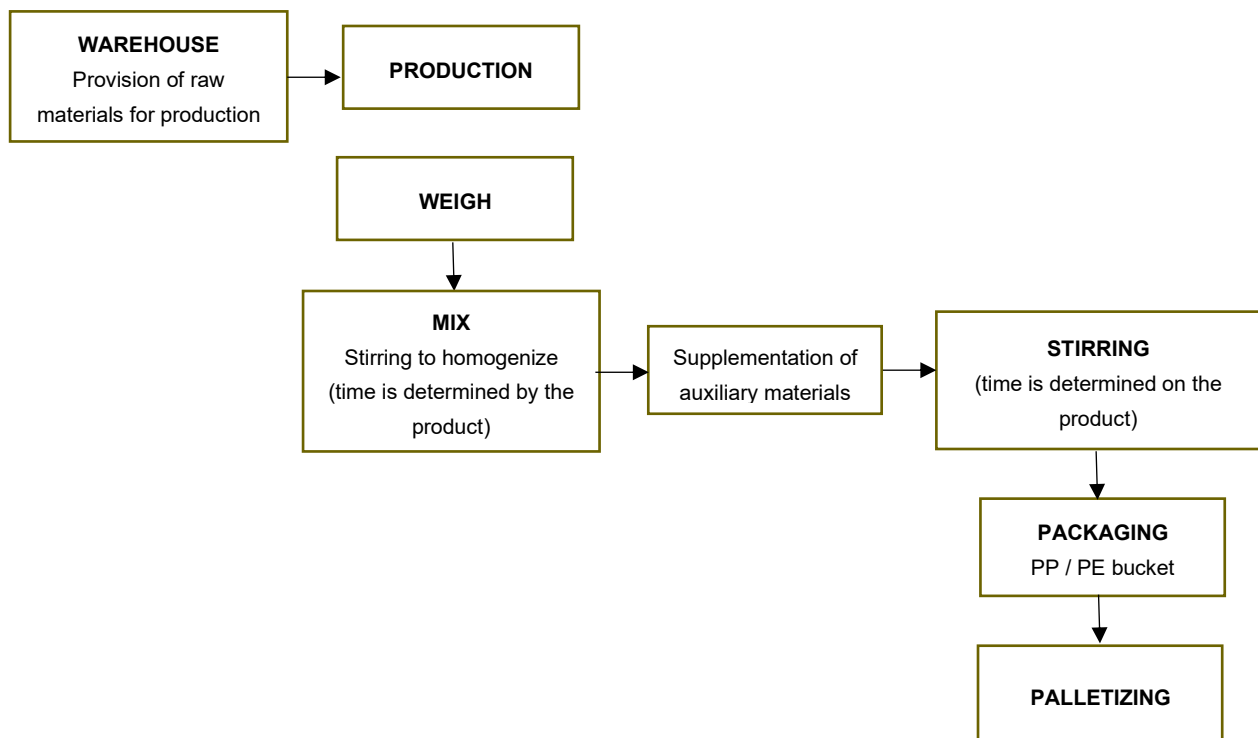
#### A2. Transport to the manufacturer

This module includes the transportation of raw materials and packaging to the manufacturing site. The modelling includes road, boat and/or train transportations.

#### A3. Manufacturing

This module includes the manufacture of products and the manufacture of packaging. The production of packaging material is considered at this stage. The processing of any waste arising from this stage is also included.

### Manufacturing process flow diagram



The manufacturing activities include grinding, drying, storing, mixing, packing and internal transportation. Packaging-related flows in the production process and all up-stream packaging are included in the manufacturing module, i.e., wooden pallets, bags, and LDPE film.

### A4-A5. Construction process stage

The construction process is divided into 2 modules: A4, Transport to the building site and A5, Installation in the building.

#### A4. Transport to the building site

This module includes transport from the production gate to the building site. Transport is calculated based on a scenario with the parameters described in the following table.

| PARAMETER                                                                                                    | VALUE                                                                         |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Fuel type and consumption of vehicle or vehicle type used for transport e.g. long-distance truck, boat, etc. | Freight truck trailer 19.2 t payload, diesel consumption 38 liters for 100 km |
| Distance                                                                                                     | 371 km                                                                        |
| Capacity utilisation (including empty returns)                                                               | 59.3% of the capacity in mass<br>30% of empty returns                         |
| Bulk density of transported products*                                                                        | 1139.2 kg / m <sup>3</sup>                                                    |
| Volume capacity utilisation factor                                                                           | 1 (by default)                                                                |

#### A5. Installation in the building

This module includes: the installation of the product, the surplus of raw materials and packaging (cradle to gate) to compensate for the loss of product during the installation, the transport and management of packaging and product waste.

In this module was taken into consideration:

- Energy used in the equipment to prepare the product.

Not taken into consideration:

- Additional accessories for installation
- Energy used to install the product (manual tools are used instead).

| PARAMETER                                                                                                                                                  | VALUE / DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ancillary materials for installation (specified by materials)                                                                                              | none                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Water use                                                                                                                                                  | 0 l / kg of product                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Other resource use                                                                                                                                         | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Quantitative description of energy type (regional mix) and consumption during the installation process                                                     | 0.00396 MJ/kg of product                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Wastage of materials on the building site before waste processing, generated by the product's installation (specified by type)                             | 2% losses during installation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Output materials (specified by type) as results of waste processing at the building site e.g. of collection for recycling, for energy recovering, disposal | Product waste:<br>1 kg (landfill)<br>Packaging waste:<br>Cardboard: 1.13E-02 kg/ kg of product (75% recycling), 4.50E-04 kg/ kg of product (3% energy recovery), 3.30E-03 kg/kg of product (22% landfill)<br>LDPE: 12.56E-03 kg/ kg of product (64% recycling), 4.40E-04 kg/ kg of product (11% energy recovery), 1.00E-03 kg/kg of product (25% landfill)<br>PP: 3.58E-01 kg/ kg of product (64% recycling), 6.16E-02 kg/ kg of product (11% energy recovery), 1.40E-01 kg/kg of product (25% landfill)<br>Wooden pallet: 5.17E-01 kg/ kg of product (62% recycling), 8.33E-03 kg/ kg of product (1% energy recovery), 3.08E-01 kg/kg of product (37% landfill) |
| Direct emissions to ambient air, soil, and water                                                                                                           | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

#### B1-B7. Use stage (excluding potential savings)

The use stage is divided into the following modules:

- B1: Use

- **B2:** Maintenance
- **B3:** Repair
- **B4:** Replacement
- **B5:** Refurbishment
- **B6:** Operational energy use
- **B7:** Operational water use

The product has a reference service life of 50 years. This assumes that the product will last in situ with no requirements for maintenance, repair, replacement, or refurbishment throughout this period. Therefore, it has no impact at this stage.

## C1-C4. End of Life Stage

This stage includes the next modules:

- **C1: Deconstruction, demolition.** The de-construction and/or dismantling of the product take part of the demolition of the entire building. The energy considered for demolition is 0.045 MJ/m<sup>2</sup>.
- **C2: Transport to waste processing**
- **C3: Waste processing for reuse, recovery and/or recycling**
- **C4: Waste disposal**, including physical pre-treatment and site management.
- 

### Description of the scenarios and additional technical information for the end of life:

| PARAMETER                                                  | VALUE/DESCRIPTION                                                                                              |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Collection process specified by type                       | 1 kg/m <sup>2</sup> of product collected with mixed construction waste.                                        |
| Recovery system specified by type                          | 0% of Waste. There is no recovery, recycling or reuse of the product once it was reached its end of life phase |
| Disposal specified by type                                 | 100 % to municipal landfill                                                                                    |
| Assumptions for scenario development (e.g. transportation) | Average truck trailer with 27t payload, diesel consumption 38L/100km ; 80km distance to landfill               |

## **D. Reuse/recovery/recycling potential**

In the module D are declared the environmental benefits and loads from reusable products, recyclable materials, or energy recovery. Module D considers:

- Inputs of secondary materials: recycled raw materials for product and packaging (pre- and post-consumer),
- Outputs of secondary materials: product and/or packaging sent to recycling,
- Exported energy (electric or thermal): product and/or packaging sent to incineration with energy recovery.

## Environmental performance

As specified in EN 15804:2012+A2:2019/AC:2021 and the Product-Category Rules, the environmental impacts are declared and reported using the baseline characterization factors based on EF 3.1. Raw materials and energy consumption, as well as transport distances have been taken directly from the manufacturing plant.

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.

The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3)

**Disclaimer 1:** The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the following indicators:

- Resource use, mineral and metals [kg Sb eq.]
- Resource use, energy carriers [MJ]
- Water deprivation potential [m<sup>3</sup> world equiv.]
- Land use [Pt]
- Human toxicity (cancer) [CTUh]
- Human toxicity(noncancer) [CTUh]
- Ecotoxicity (freshwater [CTUe]

**Disclaimer 2:** The impact category Ionizing radiation, human health [kBq U235 eq.] 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 material is also not measured by this indicator.

**Disclaimer 3:** The assumptions for the modules are in accordance with the project report (LCA study).

The following non-mandatory additional environmental indicators are not declared:

- Ecotoxicity freshwater [CTUe]
- Particulate Matter emissions [Disease incidence]
- Cancer human health effects [CTUh]
- Ionizing radiation - human health [kBq U235 eq.]
- Non-cancer human health effects [CTUh]
- Land Use [Pt].

Results refer to a declared unit of 1kg of product

The following results correspond to a single product manufactured in a single plant.

## Environmental Impacts

|                                                                                     |                                                             | PRODUCT STAGE | CONSTRUCTION STAGE | USE STAGE       |        |                |           |                |                  |                           |                          | END OF LIFE STAGE              |              |                     |             | BENEFITS AND LOADS BEYOND THE LIFE CYCLE |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------|--------------------|-----------------|--------|----------------|-----------|----------------|------------------|---------------------------|--------------------------|--------------------------------|--------------|---------------------|-------------|------------------------------------------|
| Environmental indicators                                                            |                                                             | A1 / A2 / A3  | A4 Transport       | A5 Installation | B1 Use | B2 Maintenance | B3 Repair | B4 Replacement | B5 Refurbishment | B6 Operational energy use | B7 Operational water use | C1 Deconstruction / demolition | C2 Transport | C3 Waste processing | C4 Disposal | D Reuse, recovery, recycling             |
|    | Climate Change [kg CO2 eq.]                                 | 1.18E+00      | 3.14E-02           | 7.86E-02        | 0      | 0              | 0         | 0              | 0                | 0                         | 0                        | 1.66E-03                       | 6.30E-03     | 0.00E+00            | 1.79E-02    | -3.56E-04                                |
|                                                                                     | Climate Change (fossil) [kg CO2 eq.]                        | 1.23E+00      | 3.08E-02           | 2.66E-02        | 0      | 0              | 0         | 0              | 0                | 0                         | 0                        | 1.66E-03                       | 6.18E-03     | 0.00E+00            | 1.50E-02    | -3.69E-04                                |
|                                                                                     | Climate Change (biogenic) [kg CO2 eq.]                      | -4.69E-02     | 8.50E-05           | 5.20E-02        | 0      | 0              | 0         | 0              | 0                | 0                         | 0                        | 1.43E-06                       | 1.76E-05     | 0.00E+00            | 2.89E-03    | 1.22E-05                                 |
|                                                                                     | Climate Change (land use change) [kg CO2 eq.]               | 1.34E-03      | 5.10E-04           | 4.47E-05        | 0      | 0              | 0         | 0              | 0                | 0                         | 0                        | 6.05E-08                       | 1.03E-04     | 0.00E+00            | 8.98E-05    | 9.53E-07                                 |
|    | Ozone depletion [kg CFC-11 eq.]                             | 2.33E-05      | 3.06E-15           | 4.67E-07        | 0      | 0              | 0         | 0              | 0                | 0                         | 0                        | 1.41E-16                       | 9.01E-16     | 0.00E+00            | 4.04E-14    | -1.22E-11                                |
|    | Acidification terrestrial and freshwater [Mole of H+ eq.]   | 1.14E-02      | 3.48E-05           | 2.36E-04        | 0      | 0              | 0         | 0              | 0                | 0                         | 0                        | 3.80E-06                       | 8.21E-06     | 0.00E+00            | 1.06E-04    | -2.09E-06                                |
|   | Eutrophication freshwater [kg P eq.]                        | 3.28E-05      | 1.30E-07           | 7.01E-07        | 0      | 0              | 0         | 0              | 0                | 0                         | 0                        | 3.17E-10                       | 2.61E-08     | 0.00E+00            | 3.40E-08    | -1.35E-09                                |
|                                                                                     | Eutrophication marine [kg N eq.]                            | 1.22E-03      | 1.16E-05           | 2.72E-05        | 0      | 0              | 0         | 0              | 0                | 0                         | 0                        | 1.53E-06                       | 2.96E-06     | 0.00E+00            | 2.74E-05    | -9.36E-08                                |
|                                                                                     | Eutrophication terrestrial [Mole of N eq.]                  | 1.20E-02      | 1.41E-04           | 2.61E-04        | 0      | 0              | 0         | 0              | 0                | 0                         | 0                        | 1.68E-05                       | 3.52E-05     | 0.00E+00            | 3.01E-04    | -3.37E-06                                |
|  | Photochemical ozone formation - human health [kg NMVOC eq.] | 4.47E-03      | 3.25E-05           | 9.61E-05        | 0      | 0              | 0         | 0              | 0                | 0                         | 0                        | 4.51E-06                       | 8.14E-06     | 0.00E+00            | 8.37E-05    | -2.49E-06                                |
|  | Resource use, mineral and metals [kg Sb eq.] <sup>1</sup>   | 5.37E-06      | 2.58E-09           | 1.08E-07        | 0      | 0              | 0         | 0              | 0                | 0                         | 0                        | 4.00E-11                       | 5.33E-10     | 0.00E+00            | 9.70E-10    | -1.74E-09                                |
|                                                                                     | Resource use, energy carriers [MJ] <sup>1</sup>             | 2.43E+01      | 3.96E-01           | 5.15E-01        | 0      | 0              | 0         | 0              | 0                | 0                         | 0                        | 2.15E-02                       | 8.06E-02     | 0.00E+00            | 1.97E-01    | -1.08E-02                                |
|  | Water deprivation potential [m³ world equiv.] <sup>1</sup>  | 6.46E-01      | 4.52E-04           | 2.42E-02        | 0      | 0              | 0         | 0              | 0                | 0                         | 0                        | 4.51E-06                       | 9.47E-05     | 0.00E+00            | 1.71E-03    | -9.24E-06                                |

<sup>1</sup> The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

## Resources Use

|                                                                                                                                                                          | PRODUCT<br>STAGE | CONSTRUCTION<br>STAGE |                 | USE STAGE |                |           |                |                  |                           |                          | END OF LIFE STAGE              |              |                     |             | BENEFITS<br>AND LOADS<br>BEYOND<br>THE LIFE<br>CYCLE |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------|-----------------|-----------|----------------|-----------|----------------|------------------|---------------------------|--------------------------|--------------------------------|--------------|---------------------|-------------|------------------------------------------------------|
| Resources Use indicators <sup>2</sup>                                                                                                                                    | A1 / A2 / A3     | A4 Transport          | A5 Installation | B1 Use    | B2 Maintenance | B3 Repair | B4 Replacement | B5 Refurbishment | B6 Operational energy use | B7 Operational water use | C1 Deconstruction / demolition | C2 Transport | C3 Waste processing | C4 Disposal | D Reuse, recovery, recycling                         |
|  Use of renewable primary energy (PERE) [MJ] <sup>3</sup>                               | 2.50E+00         | 3.35E-02              | 6.03E-02        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 1.07E-04                       | 6.94E-03     | 0.00E+00            | 3.45E-02    | -1.17E-02                                            |
|  Primary energy resources used as raw materials (PERM) [MJ] <sup>2</sup>                | 5.67E-01         | 0.00E+00              | -3.14E-01       | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 0.00E+00                       | 0.00E+00     | 0.00E+00            | 0.00E+00    | 0.00E+00                                             |
|  Total use of renewable primary energy resources (PERT) [MJ] <sup>2</sup>               | 3.07E+00         | 3.35E-02              | -2.54E-01       | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 1.07E-04                       | 6.94E-03     | 0.00E+00            | 3.45E-02    | -1.17E-02                                            |
|  Use of non-renewable primary energy (PENRE) [MJ] <sup>2</sup>                          | 1.97E+01         | 3.96E-01              | 4.24E-01        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 2.15E-02                       | 8.06E-02     | 0.00E+00            | 1.97E-01    | -1.08E-02                                            |
|  Non-renewable primary energy resources used as raw materials (PENRM) [MJ] <sup>2</sup> | 4.59E+00         | 0.00E+00              | 8.69E-02        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 0.00E+00                       | 0.00E+00     | 0.00E+00            | 0.00E+00    | 0.00E+00                                             |
|  Total use of non-renewable primary energy resources (PENRT) [MJ] <sup>2</sup>         | 2.43E+01         | 3.96E-01              | 5.11E-01        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 2.15E-02                       | 8.06E-02     | 0.00E+00            | 1.97E-01    | -1.08E-02                                            |
|  Use of secondary material (SM) [kg]                                                  | 0.00E+00         | 0.00E+00              | 0.00E+00        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 0.00E+00                       | 0.00E+00     | 0.00E+00            | 0.00E+00    | 0.00E+00                                             |
|  Use of renewable secondary fuels (RSF) [MJ]                                          | 0.00E+00         | 0.00E+00              | 0.00E+00        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 0.00E+00                       | 0.00E+00     | 0.00E+00            | 0.00E+00    | 0.00E+00                                             |
|  Use of non-renewable secondary fuels (NRSF) [MJ]                                     | 0.00E+00         | 0.00E+00              | 0.00E+00        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 0.00E+00                       | 0.00E+00     | 0.00E+00            | 0.00E+00    | 0.00E+00                                             |
|  Use of net fresh water (FW) [m3]                                                     | 1.59E-02         | 3.76E-05              | 5.90E-04        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 1.61E-07                       | 7.73E-06     | 0.00E+00            | 5.23E-05    | -2.39E-06                                            |

<sup>3</sup> From EPD International Construction Product PCR 1.3.2 (Annex 3). The option B was retained to calculate the primary energy use indicators.

## Waste Category & Output flows

| Waste Category & Output Flows                                                                                               | PRODUCT<br>STAGE | CONSTRUCTION<br>STAGE |                 | USE STAGE |                |           |                |                  |                |                      | END OF LIFE STAGE                 |              |                     |             | BENEFITS<br>AND<br>LOADS<br>BEYOND<br>THE LIFE<br>CYCLE |
|-----------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------|-----------------|-----------|----------------|-----------|----------------|------------------|----------------|----------------------|-----------------------------------|--------------|---------------------|-------------|---------------------------------------------------------|
|                                                                                                                             | A1 / A2 / A3     | A4 Transport          | A5 Installation | B1 Use    | B2 Maintenance | B3 Repair | B4 Replacement | B5 Refurbishment | B6 Operational | B7 Operational water | C1 Deconstruction /<br>demolition | C2 Transport | C3 Waste processing | C4 Disposal | D Reuse, recovery,<br>recycling                         |
|  Hazardous waste disposed (HWD) [kg]       | 2.21E-01         | 1.28E-11              | 4.43E-03        | 0         | 0              | 0         | 0              | 0                | 0              | 0                    | 6.63E-13                          | 3.09E-12     | 0.00E+00            | 4.92E-11    | -4.72E-06                                               |
|  Non-hazardous waste disposed (NHWD) [kg]  | 1.14E+00         | 6.16E-05              | 5.75E-02        | 0         | 0              | 0         | 0              | 0                | 0              | 0                    | 4.52E-06                          | 1.32E-05     | 0.00E+00            | 1.00E+00    | -8.36E-05                                               |
|  Radioactive waste disposed (RWD) [kg]     | 1.30E-04         | 5.12E-07              | 3.75E-06        | 0         | 0              | 0         | 0              | 0                | 0              | 0                    | 2.43E-08                          | 1.47E-07     | 0.00E+00            | 2.07E-06    | -2.58E-07                                               |
|  Components for re-use (CRU) [kg]          | 0.00E+00         | 0.00E+00              | 0.00E+00        | 0         | 0              | 0         | 0              | 0                | 0              | 0                    | 0.00E+00                          | 0.00E+00     | 0.00E+00            | 0.00E+00    | 0.00E+00                                                |
|  Materials for Recycling (MFR) [kg]      | 0.00E+00         | 0.00E+00              | 2.16E-02        | 0         | 0              | 0         | 0              | 0                | 0              | 0                    | 0.00E+00                          | 0.00E+00     | 0.00E+00            | 0.00E+00    | 0.00E+00                                                |
|  Material for Energy Recovery (MER) [kg] | 0.00E+00         | 0.00E+00              | 0.00E+00        | 0         | 0              | 0         | 0              | 0                | 0              | 0                    | 0.00E+00                          | 0.00E+00     | 0.00E+00            | 0.00E+00    | 0.00E+00                                                |
|  Exported electrical energy (EEE) [MJ]   | 0.00E+00         | 0.00E+00              | 9.29E-04        | 0         | 0              | 0         | 0              | 0                | 0              | 0                    | 0.00E+00                          | 0.00E+00     | 0.00E+00            | 0.00E+00    | 0.00E+00                                                |
|  Exported thermal energy (EET) [MJ]      | 0.00E+00         | 0.00E+00              | 1.67E-03        | 0         | 0              | 0         | 0              | 0                | 0              | 0                    | 0.00E+00                          | 0.00E+00     | 0.00E+00            | 0.00E+00    | 0.00E+00                                                |

## Additional indicators from EN 15804

|                                                                                   |                                   | PRODUCT STAGE | CONSTRUCTION STAGE | USE STAGE       |        |                |           |                |                  |                           |                          | END OF LIFE STAGE              |              |                     |             | BENEFITS AND LOADS BEYOND THE LIFE CYCLE |
|-----------------------------------------------------------------------------------|-----------------------------------|---------------|--------------------|-----------------|--------|----------------|-----------|----------------|------------------|---------------------------|--------------------------|--------------------------------|--------------|---------------------|-------------|------------------------------------------|
| Environmental indicators                                                          |                                   | A1 / A2 / A3  | A4 Transport       | A5 Installation | B1 Use | B2 Maintenance | B3 Repair | B4 Replacement | B5 Refurbishment | B6 Operational energy use | B7 Operational water use | C1 Deconstruction / demolition | C2 Transport | C3 Waste processing | C4 Disposal | D Reuse, recovery, recycling             |
|  | GWP-GHG [kg CO2 eq.] <sup>4</sup> | 1.23E+00      | 3.12E-02           | 2.75E-02        | 0      | 0              | 0         | 0              | 0                | 0                         | 0                        | 1.65E-03                       | 6.26E-03     | 0.00E+00            | 1.50E-02    | -3.50E-04                                |

<sup>4</sup> The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus almost equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

Information on biogenic carbon content

|                                                                                   |                                           | PRODUCT STAGE |
|-----------------------------------------------------------------------------------|-------------------------------------------|---------------|
| Biogenic Carbon Content in kg C                                                   |                                           | A1 / A2 / A3  |
|  | Biogenic carbon content in product [kg]   | 7.65E-04      |
|  | Biogenic carbon content in packaging [kg] | 1.39E-02      |

*Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO2.*

## Declaration of variation

### Variation between products

According to PCR 2.0, since this EPD is multi-product, the variation of impact between products shall be declared.

The following table provides this variation of impact between

- reference and the minimum (transparent base) on A1-A3

| DEVIATION                                    | BETWEEN<br>REFERENCE<br>AND MINIMUM |
|----------------------------------------------|-------------------------------------|
| <b>GWP-GHG</b>                               | -12%                                |
| Climate Change                               | -12%                                |
| Climate Change (fossil)                      | -12%                                |
| Climate Change (biogenic)                    | 2%                                  |
| Climate Change (land use change)             | -18%                                |
| Ozone depletion                              | 2%                                  |
| Acidification terrestrial and freshwater     | -128%                               |
| Eutrophication freshwater                    | -50%                                |
| Eutrophication marine                        | -16%                                |
| Eutrophication terrestrial                   | -12%                                |
| Photochemical ozone formation - human health | -21%                                |
| Resource use, mineral and metals             | -22%                                |
| Resource use, energy carriers                | -1%                                 |
| Water deprivation potential                  | -110%                               |

## Additional environmental information:

### Electricity information

The DURAZIV, by Saint-Gobain Construction Products Romania factory based in Popești-Leoredeni uses electricity with Guarantee of Origin certificate (GO).

Hence, the electricity mix considered for the manufacturing of the studied product is modelled according to the electricity mix described in the Guarantee of Origin certificate. The amount of electricity purchased with GO covers 100% of the electricity consumption on the manufacturing site.

| Parameter                                           | VALUE / DESCRIPTION                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location                                            | Representative of the Guarantee of Origin purchased by Saint-Gobain                                                                                                                                                                                                                                                           |
| Share of electricity covered by Guarantee of Origin | 100% of the energy consumption is covered by the GO                                                                                                                                                                                                                                                                           |
| Energy sources for electricity                      | Share of energy sources<br>Hydro 71.4%<br>Photovoltaic 10.1%<br>Wind 18.5%<br>2% transmission losses                                                                                                                                                                                                                          |
| Dataset version                                     | Sphera CUP2024.2<br>ecoinvent 3.10                                                                                                                                                                                                                                                                                            |
| Source                                              | Guarantee of Origin certificate:<br><a href="https://www.omvpetrom.com/services/downloads/00/omvpetrom.com/1522269272573/eticheta-furnizorului-omv-petrom-2024-en-regenerabila.pdf">https://www.omvpetrom.com/services/downloads/00/omvpetrom.com/1522269272573/eticheta-furnizorului-omv-petrom-2024-en-regenerabila.pdf</a> |
| GWP-GHG CO <sub>2</sub> eq.                         | 0.009751 kg of CO <sub>2</sub> eq./kWh                                                                                                                                                                                                                                                                                        |

An EPD is valid for 5 years. Therefore, the GO will be prolonged continuously to be valid for the whole validity of the EPD. If not prolonged, the EPD will be updated.

### Other additional environmental

No additional information displayed.

## Additional social and economic information

No additional information displayed.

### Version history

Original version of the EPD.

### Abbreviations

|     |                                      |
|-----|--------------------------------------|
| DU  | Declared unit                        |
| EPD | Environmental Product Declaration    |
| eq. | equivalents                          |
| FU  | Functional unit                      |
| g   | gram                                 |
| GJ  | Giga Joules (as Net Calorific Value) |
| GO  | Guaranties of origin                 |
| GWP | Global warming potential             |
| kg  | kilogram                             |
| kWh | kilowatt-hour                        |

|      |                                      |
|------|--------------------------------------|
| L    | liter                                |
| LCA  | Life Cycle Assessment                |
| LCI  | Life Cycle Inventory Analysis        |
| LCIA | Life Cycle Impact Assessment         |
| MJ   | Mega Joules (as Net Calorific Value) |
| PCR  | Product Category Rules               |
| RSL  | Reference Service Life (in years)    |
| ton  | metric ton                           |

## References

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6. The International EPD System PCR 2019:14 Construction products and Construction services. Version 1.3.2
7. European Chemical Agency, Candidate List of substances of very high concern for Authorization. <https://echa.europa.eu/candidate-list-table>
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