

## ENVIRONEMENTAL PRODUCT DECLARATION

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

### Vertex® Interior R52 A101

from: Saint-Gobain ADFORS CZ, s.r.o

Version 1

Version date: 2026-04-30

Validity: 5 years

Validity date: 2031-04-29

Scope of the EPD®: Europe

Type of EPD: EPD of a single product from a single manufacturer

Programme: The International EPD system,  
[www.environdec.com](http://www.environdec.com)

Programme operator: EPD International AB

Production plant: Saint-Gobain ADFORS CZ, s.r.o;  
Sokolovská 106; 570 01 Litomyšl; The Czech Republic

An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see [www.environdec.com](http://www.environdec.com)



**EPD registration number**  
**The International EPD system:**  
**EPD-IES-0029174:001**



## 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>         |
| <b>E-MAIL:</b>    | <a href="mailto:support@environdec.com">support@environdec.com</a> |

### 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.

**Chairs of the PCR review:** Rob Rouwette (chair), Noa Meron (co-chair). The review panel may be contacted via the Secretariat.

### 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:** Marcel Gómez Ferrer, Marcel Gómez Consultoria Ambiental, S.L.,  
[info@marcelgomez.com](mailto:info@marcelgomez.com)

Approved by: The International EPD System

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

### Ownership and limitations 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 programs, 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.

For further information about comparability, see EN 15804 and ISO 14025.

## INFORMATION ABOUT EPD OWNER

**Address and contact information of the EPD owner:** Saint-Gobain ADFORS CZ, s.r.o, Sokolovská 106; 570 01 Litomyšl; the Czech Republic. <https://eu.adfors.com/>

**Description of the organization of the EPD owner:** Glass Fiber and technical textile manufacturer

**Management system-related certification:** ISO 9001:2015, ISO 14001:2015, ISO 50001:2018

(Approval number(s): ISO 14001 – 0052352, ISO 9001 – 0052353, ISO 50001 – 00027605)

**LCA practitioner:** Lucie Waniausova (Saint-Gobain ADFORS CZ, s.r.o, ([lucie.waniausova@saint-gobain.com](mailto:lucie.waniausova@saint-gobain.com)) & Jirina Galetova (Saint-Gobain ADFORS central team, [jirina.galetova@saint-gobain.com](mailto:jirina.galetova@saint-gobain.com))

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

## PRODUCT INFORMATION

**Product name:** Vertex® Interior R52 A101

**UN CPC CODE:** 54790 Other building completion and finishing services

**Manufacturing site(s):** Saint-Gobain ADFORS CZ, s.r.o – Sokolovská 106; 570 01 Litomyšl; The Czech Republic.

**Visual representation of the product:**



## PRODUCT DESCRIPTION

ADFORS Vertex® Interior R52 A101 was designed for interior walls applications to improve durability of a nice finish of the walls.

It prevents cracking caused by:

- heavy stress that affects some wall parts (window areas and partitions)
- plaster drying that may cause the spider web cracks
- substrate imperfections when a thin plaster is used

Main features:

- made from E-glass
- alkali resistant coating
- dimensionally stable



The product is sold in rolls. The standard width of each roll is 100 cm ( $\pm 1\%$ ), the standard length is min 50 m, each roll is packed in a cardboard box and protected by a plastic film made of low-density polyethylene (LDPE).

For more information: <https://eu.adfors.com/>

## Technical data/physical characteristics:

| Basic parameters                                       | Unit             | Performance      | Technical specification |
|--------------------------------------------------------|------------------|------------------|-------------------------|
| Mass per unit area                                     | g/m <sup>2</sup> | 68 ± 5%          | ISO 3374                |
| Mesh opening warp/weft                                 | mm               | (4,8/5,1) ± 0,5  | EAD 040016-01-0404      |
| Thickness                                              | mm               | 0,4 ± 0,1        | ISO 4603                |
| Tensile strength and elongation                        | Unit             | Performance      | Technical specification |
| Tensile strength in the 'as-delivered' state warp/weft | N/50mm           | min 1000/min 850 | ISO 13934-1             |
| Elongation in the 'as-delivered' state                 | %                | max 5/max 5      |                         |

| Application                                                                                                | Value / Description                                                                                    |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Intended use and key functionalities</b>                                                                | Interior walls reinforcement                                                                           |
| <b>Expected influence on the operational aspects and impact of the building or other construction work</b> | Prevents cracking caused by heavy stress to a wall, during plaster drying and substrate imperfections. |
| <b>Restrictions to a type of construction or building</b>                                                  | none                                                                                                   |
| <b>Lifespan</b>                                                                                            | 50 years                                                                                               |

## CONTENT DECLARATION

Description of the main components and/or materials for 1 m<sup>2</sup> of Vertex® Interior R52 A101:

| Product components               | Weight (%)                  | Post-consumer recycled material (Weight %) | Biogenic Material (Weight % and kgC/kg) |
|----------------------------------|-----------------------------|--------------------------------------------|-----------------------------------------|
| Glass Fiber                      | 75 - 85                     | 0                                          | 0 resp. 0                               |
| Coating                          | 15 - 25                     | 0                                          | 8,53% resp. 0,46                        |
| Product                          | Weight (kg/m <sup>2</sup> ) |                                            |                                         |
| <b>Vertex® Interior R52 A101</b> | <b>0,068</b>                | <b>0</b>                                   | <b>2,0% resp. 0,46</b>                  |
| Packaging materials              | Weight (kg/m <sup>2</sup> ) | Weight%                                    | Weight Biogenic carbon (kg C/kg)        |
| Low-density polyethylene (LDPE)  | 5,19E-04                    | 0,76%                                      | 0                                       |
| Polyethylene tape (PE)           | 1,30E-05                    | 0,02%                                      | 0                                       |
| Cardboard                        | 1,30E-03                    | 1,91%                                      | 0,45                                    |
| Paper                            | 2,60E-06                    | 0,00%                                      | 0,43                                    |
| Wooden Pallet                    | 6,49E-03                    | 9,55%                                      | 0,41                                    |

## 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 and module D and optional modules A4-A5 and B1-B7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>DECLARED UNIT</b>                         | 1 m <sup>2</sup> of Vertex® Interior R52 A101 (0,068 kg/m <sup>2</sup> ) installed and with an estimated useful life of 50 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>CONVERSION FACTOR</b>                     | Surface density = 0,068 kg/m <sup>2</sup><br>Thickness = 0,4 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>SYSTEM BOUNDARIES</b>                     | Cradle to gate with options module C1-C4 and module D and optional modules A4-A5 and B1-B7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>REFERENCE SERVICE LIFE (RSL)</b>          | The Reference Service Life (RSL) of the mesh product is 50 years. This value is the one commonly used in the industry. However, the service life of the product may be less than this design life if, for the example, the user chooses to renovate the wall.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>CUT-OFF RULES</b>                         | <p>The cut-off criterion used in Saint-Gobain EPD will be the mass criterion with the following details:</p> <ul style="list-style-type: none"> <li>➤ Taking into account all input and output flows in a unit process i.e. and the corresponding LCI whenever available</li> <li>➤ The use of cut-off criterion on mass inputs and primary energy at the unit process level (1%) and at the information module level (5%)</li> <li>➤ No simplification of the LCI by additional exclusions of material flows</li> <li>➤ Polluter pays principle and modularity principle</li> </ul> <p>All inputs and outputs to the manufacturing plants have been included and made transparent. All assumptions regarding the materials and water balances have also been included</p> <p>All hazardous and toxic materials and substances are included in the inventory and the cut-off rules do not apply</p> <p>Care has been taken to include material and energy flows known to have the potential to cause significant emissions into air and water or soil. The long-term emissions haven't been considered</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>               | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>GEOGRAPHICAL COVERAGE AND TIME PERIOD</b> | <p>Scope: Europe</p> <p>Data is collected from one production site Saint-Gobain ADFORS CZ, s.r.o – Sokolovská 106; 570 01 Litomyšl, located in the Czech Republic</p> <p>Data collected for the year 2024</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**BACKGROUND DATA  
SOURCE**

Databases from Sphera CUP2024.2 and ecoinvent v.3.10  
EF Package 3.1

**SOFTWARE**

Sphera LCA for experts 10.9.0.31

Data quality declaration

| EPD specific                | Share of primary data | Process               | Source type | Source                        | Reference year | Data category | A1-A3 GWP-GHG [%] |
|-----------------------------|-----------------------|-----------------------|-------------|-------------------------------|----------------|---------------|-------------------|
|                             |                       | Manufacturing process |             |                               |                |               |                   |
|                             |                       | Thermal energy        | Database    | Sphera 2024.2                 | <5 years old   | Primary data  | 20,1%             |
|                             |                       | Electricity           | Database    | Sphera 2024.2 /ecoinvent 3.10 | <5 years old   | Primary data  | 0,3%              |
|                             |                       | RMs from EPD          |             |                               |                |               |                   |
| EPD specific                | 85%                   | Fiberglass yarn       | EPD         | EPD-IES-0011792:002           | 2023           | Primary data  | 42,5%             |
| Total share of primary data |                       |                       |             |                               |                |               | 62,9%             |

A1-A3 GWP-GHG [kg CO2 eq.] 1,14E-01



## Data quality assessment

Data quality of primary data is judged by its precision, geographical and temporal representativity. For the other criteria:

Completeness (Geographical rating): no flow has been excluded else than those specified in the cut-off section.

Consistency (Temporal rating): thanks to Saint-Gobain internal reporting tools, consistency is considered very good among this project and other projects of the company.

Technological (Technological rating): Data is specific to the company, processes and materials studied. An average was calculated per category. The final scores per category are as follows:

| Geographical rating | Technological Rating | Temporal rating |
|---------------------|----------------------|-----------------|
| 3,2<br>Fair         | 3,0<br>Fair          | 2,0<br>Good     |

Quality level can range from Very good, Good, Fair, Poor to Very Poor with a best score of 1 (Very good) possible for each category. Fair geographical representativeness means that the process included in the data set is sufficiently representative of the geography stated in the location indicated in the data collection of the LCA/EPD. Fair technology rating means that technological aspects are like what is described in the data collection of the LCA/EPD but merits improvements. Some of the relevant processes are not modelled with specific data but using proxies. Good temporal rating means that data used are not older than 3 years as with respect to the date of data collection of the LCA/EPD.

## Data quality declaration

|                                                             |                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data Collection</b>                                      | 1.1.2024-31.12.2024                                                                                                                                                                                                                                                    |
| <b>Sites used</b>                                           | Saint-Gobain ADFORS CZ – Litomyšl, Czech Republic                                                                                                                                                                                                                      |
| <b>Geography</b>                                            | Produced in Czech Republic<br>Sold in Europe<br>Use and disposal in Europe                                                                                                                                                                                             |
| <b>Technology</b>                                           | Glass fiber is woven into a greige. Then, it is coated by a formulation of chemicals (binder and additives) and goes through an oven to cure the binder and evaporate water. Hereafter, mesh is formatted and wrapped in accordance with the customer's specification. |
| <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>                                             | EPD-IES-0011792:002                                                                                                                                                                                                                                                    |
| <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> | Glass Fiber yarn and SBR Binder (electricity and natural gas data for the manufacturing)                                                                                                                                                                               |
| <b>Use of Poor relevant data</b>                            | None                                                                                                                                                                                                                                                                   |
| <b>Use of Very Poor relevant data</b>                       | None                                                                                                                                                                                                                                                                   |



## DESCRIPTION OF SYSTEM BOUNDARIES

| System boundaries (X = included ND = 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                                             |
| Geography                                          | EU27                |           | CZ            | EU27               | EU27                              | EU27      | EU27        | EU27   | EU27        | EU27          | EU27                   | EU27                  | EU27                       | EU27      | EU27             | EU27     | EU27                                          |
| Share of primary data                              | 62,9%               |           |               |                    |                                   |           |             |        |             |               |                        |                       |                            |           |                  |          |                                               |
| Variation products                                 | 0%                  |           |               |                    |                                   |           |             |        |             |               |                        |                       |                            |           |                  |          |                                               |
| Variation sites                                    | 0%                  |           |               |                    |                                   |           |             |        |             |               |                        |                       |                            |           |                  |          |                                               |

## LIFE CYCLE STAGES

### A1-A3. Product stage

The product stage of the Vertex® Interior R52 A101 mesh product is subdivided into 3 modules A1, A2 and A3 respectively “Raw material supply”, “Transport to the manufacturer” and “Manufacturing”.

#### A1. Raw materials supply

This module considers the extraction and processing of all raw materials and energy which occur upstream to the studied manufacturing process. Specifically, the raw material supply covers production of glass fiber and coating components, and the packaging.

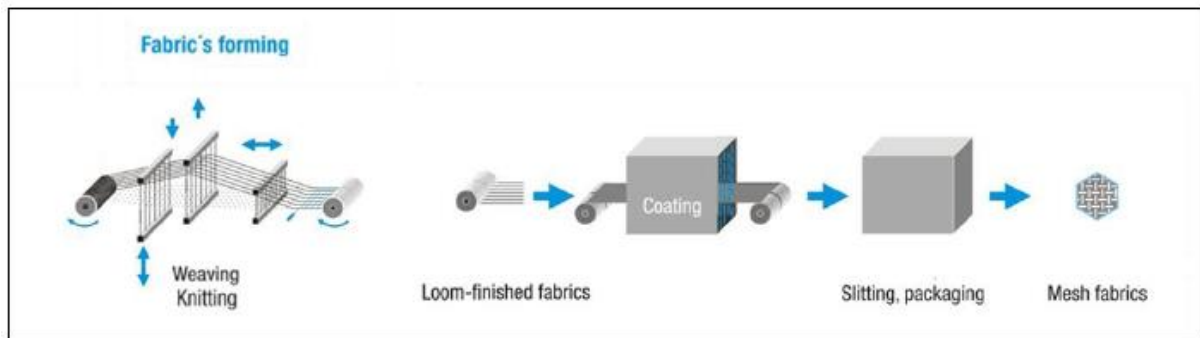
#### A2. Transport to the manufacturer

The raw materials are transported to the manufacturing site. In our case, modeling includes road transportation (average values from all suppliers) of each raw material.

#### A3. Manufacturing

This module includes the manufacturing of the product. Specifically, it covers the manufacturing of mesh Vertex® Interior R52 A101.

To produce meshes, glass yarns are woven or knitted then the fabric can be winded on a tube to be coated later or passed under a binder applicator where liquid resin formulation will be applied. After application of the binder, the mesh then passes through an oven to be dried. The final product is then winded and packaged.

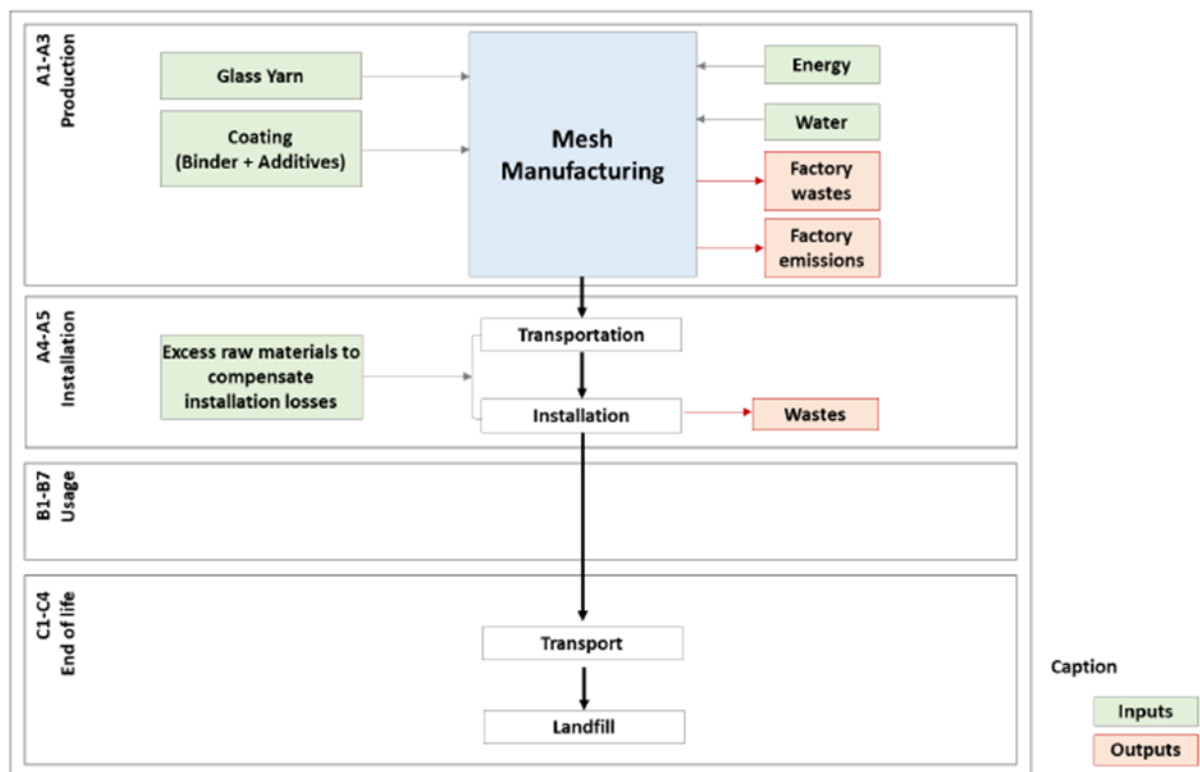


Due to the high similarity between the different mesh products in terms of materials, manufacturing processes, and physical characteristics, a uniform allocation approach was applied. The total environmental burden of manufacturing was equally distributed among the mesh products.

This module also includes the emissions and waste generated during manufacturing. Waste produced during manufacturing represents around 10,6% of total production in 2024.

Part of the waste leaving the plant is sent to landfill and is transported over 75 km. Part of the waste is sent to be recycled and is transported over 89 km on average.

### Manufacturing process flow diagram



### A4-A5. Construction process stage

The construction process is divided into 2 modules: A4, transport to the customer site and A5, installation. Since there is a product loss during installation (estimated at 5 %). The quantification of raw material compensation (A5) and its transport to the customer site (A4) are considered.

## 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 / Description                                                                                   |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Fuel type and consumption of vehicle or vehicle type used for transport e.g., long-distance truck, boat, etc.</b> | Freight truck, maximum load weight of 27 t, real load is 24 t and consumption of 38 liters per 100 km |
| <b>Distance</b>                                                                                                      | Average distance between production site and customer facilities is 1004 km by truck                  |
| <b>Capacity utilisation (including empty returns)</b>                                                                | 70% (30% empty returns)                                                                               |
| <b>Bulk density of transported products*</b>                                                                         | 170 kg/m <sup>3</sup>                                                                                 |
| <b>Volume capacity utilisation factor</b>                                                                            | <1                                                                                                    |

## A5. Installation in the building

Since the application of the reported product is done manually, no additional accessory or energy was considered for the installation phase of the product.

| Parameter                                                                                                                                                                               | Value / Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Auxiliary inputs for the installation</b>                                                                                                                                            | No auxiliary inputs for the installation (manual installation).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Wastage of materials on the building site before waste processing, generated by the product's installation (specified by type)</b>                                                   | 5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Distance</b>                                                                                                                                                                         | 80 km to landfill by truck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Output materials (specified by type) as results of waste processing at the building site e.g., of collection for recycling, for energy recovering, disposal (specified by route)</b> | <p>Recycled and reused outputs:</p> <ul style="list-style-type: none"> <li>- According to the European website "eurostat" pallets are: 36,6% recycled</li> </ul> <p>Wooden pallet: 2,4E-03 kg/m<sup>2</sup></p> <p>And it has been considered that EUR pallets are reused up to 7 times</p> <ul style="list-style-type: none"> <li>- According to the European website "eurostat" cardboard and paper is: 86,6% recycled</li> </ul> <p>Cardboard 1,1E-03 kg/m<sup>2</sup></p> <p>Paper 2,3E-06 kg/m<sup>2</sup></p> <p>Landfilled waste:</p> <p>The rest of the waste (packaging and product) is sent to landfill:</p> <p>5% waste of mesh during installation equivalent to 0,0034 kg/m<sup>2</sup></p> <p>Wooden Pallet 4,09E-03 kg/m<sup>2</sup></p> <p>Cardboard 1,99E-04 kg/m<sup>2</sup></p> <p>Paper 2,97E-07 kg/m<sup>2</sup></p> <p>Low density polyethylene film (LDPE) 5,2E-04 kg/m<sup>2</sup></p> <p>Polyethylene (PET) 1,3E-05 kg/m<sup>2</sup></p> <p>The distances used for the landfill and recycling center are 80 km</p> |
| <b>Direct emissions to ambient air, soil, and water</b>                                                                                                                                 | 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 place with no requirements for maintenance, repair, replacement, or refurbishment throughout this period. Therefore, it has no impact on this stage.

## C1-C4. End of Life Stage

This stage includes the next modules:

- **C1: Deconstruction, demolition.** As the Vertex® Mesh products are dismantled together with the wall during demolition, the environmental impact related to their deconstruction is assumed to be equivalent to demolition of masonry, based on an energy consumption of 5 kWh/ton.
- **C2: Transport to waste processing.** The model used for the transportation (80 km distance to the landfill) is applied.
- **C3: Waste processing for reuse, recovery and/or recycling.** The product is landfilled without reuse, recovery, or recycling.
- **C4: Waste disposal,** including physical pre-treatment and site management. The Vertex Mesh is assumed to be 100% landfilled. Compaction factor for depositing waste to the landfill was considered (1,6 kWh/ton).

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

| Parameter                                                         | Value / Description                                                                                                                                                        |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Collection process specified by type</b>                       | The entire product (0,068 kg of R52 Mesh) is collected alongside any mixed construction waste                                                                              |
| <b>Recovery system specified by type</b>                          | There is no recovery, recycling or reuse of the product once it has reached its end-of-life phase.                                                                         |
| <b>Disposal specified by type</b>                                 | The product alongside the mixed construction waste from demolishing will go to landfill                                                                                    |
| <b>Assumptions for scenario development (e.g. transportation)</b> | The waste going to landfill will be transported by truck with 27 t payload, using diesel as a fuel consuming 38 liters per 100 km<br>Transport distance to landfill: 80 km |

## D. Reuse/recovery/recycling potential

In module D it is 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.

According to the last data available on the Eurostat website from 2023, when the study was conducted, the figures for Czech Republic are: 86,6% of cardboard packaging is recycled and the remaining 13,4% are sent to landfill. 36,6% of pallets are recycled and 63,4% are sent to landfill. The rest of the waste produced is landfilled. Hence, only recycling benefits for packaging are reported on stage D.

## 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.

An EPD (EPD-IES-0011792:002) based on EF 3.0 was used as a primary data source. This was assessed to yield identical, conservative results compared to fully using the current EF 3.1 version.

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 about these results are high or as there is limited experience 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.]
- Human toxicity (cancer) [CTUh]
- Human toxicity(noncancer) [CTUh]

**Disclaimer 2:** 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 1m<sup>2</sup> of installed Vertex® Interior R52 A101 with a weight of 0,068 kg/m<sup>2</sup>. The following results refer to a single product manufactured in a single plant.

## ENVIRONMENTAL IMPACTS

|                                                                                     |                                                             | PRODUCT<br>STAGE | CONSTRUCTION<br>STAGE |                 | USE STAGE |                |           |                |                  |                              |                             | END OF LIFE STAGE                 |              |                     |             | BENEFITS<br>AND LOADS<br>BEYOND<br>THE LIFE<br>CYCLE |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------|------------------|-----------------------|-----------------|-----------|----------------|-----------|----------------|------------------|------------------------------|-----------------------------|-----------------------------------|--------------|---------------------|-------------|------------------------------------------------------|
| Environmental indicators                                                            |                                                             | A1 / A2 / A3     | A4 Transport          | A5 Installation | B1 Use    | B2 Maintenance | B3 Repair | B4 Replacement | B5 Refurbishment | B6 Operational<br>energy use | B7 Operational water<br>use | C1 Deconstruction /<br>demolition | C2 Transport | C3 Waste processing | C4 Disposal | D Reuse, recovery,<br>recycling                      |
|    | Climate Change [kg CO2 eq.]                                 | 9,70E-02         | 5,08E-03              | 1,37E-02        | 0         | 0              | 0         | 0              | 0                | 0                            | 0                           | 1,23E-04                          | 4,09E-04     | 0                   | 6,96E-03    | -6,22E-04                                            |
|                                                                                     | Climate Change (fossil) [kg CO2 eq.]                        | 1,14E-01         | 5,00E-03              | 6,84E-04        | 0         | 0              | 0         | 0              | 0                | 0                            | 0                           | 1,23E-04                          | 4,02E-04     | 0                   | 1,00E-03    | -6,20E-04                                            |
|                                                                                     | Climate Change (biogenic) [kg CO2 eq.]                      | -1,74E-02        | 0                     | 1,31E-02        | 0         | 0              | 0         | 0              | 0                | 0                            | 0                           | 0                                 | 0            | 0                   | 5,95E-03    | 0                                                    |
|                                                                                     | Climate Change (land use change) [kg CO2 eq.]               | 1,03E-04         | 7,76E-05              | 2,01E-06        | 0         | 0              | 0         | 0              | 0                | 0                            | 0                           | 1,07E-08                          | 6,76E-06     | 0                   | 6,40E-06    | -2,59E-06                                            |
|    | Ozone depletion [kg CFC-11 eq.]                             | 4,44E-09         | 4,67E-16              | 1,88E-11        | 0         | 0              | 0         | 0              | 0                | 0                            | 0                           | 1,88E-12                          | 4,05E-17     | 0                   | 6,04E-13    | -2,43E-11                                            |
|    | Acidification terrestrial and freshwater [Mole of H+ eq.]   | 2,79E-04         | 6,21E-06              | 2,24E-06        | 0         | 0              | 0         | 0              | 0                | 0                            | 0                           | 1,11E-06                          | 4,66E-07     | 0                   | 8,67E-06    | -2,38E-06                                            |
|   | Eutrophication freshwater [kg P eq.]                        | 5,45E-06         | 1,97E-08              | 4,40E-08        | 0         | 0              | 0         | 0              | 0                | 0                            | 0                           | 3,58E-09                          | 1,72E-09     | 0                   | 2,67E-07    | -5,28E-07                                            |
|                                                                                     | Eutrophication marine [kg N eq.]                            | 1,18E-04         | 2,03E-06              | 1,57E-06        | 0         | 0              | 0         | 0              | 0                | 0                            | 0                           | 5,14E-07                          | 1,62E-07     | 0                   | 2,19E-06    | -1,47E-06                                            |
|                                                                                     | Eutrophication terrestrial [Mole of N eq.]                  | 1,22E-03         | 2,38E-05              | 9,20E-06        | 0         | 0              | 0         | 0              | 0                | 0                            | 0                           | 5,62E-06                          | 1,91E-06     | 0                   | 2,41E-05    | -6,41E-06                                            |
|  | Photochemical ozone formation - human health [kg NMVOC eq.] | 3,07E-04         | 5,67E-06              | 2,45E-06        | 0         | 0              | 0         | 0              | 0                | 0                            | 0                           | 1,68E-06                          | 4,46E-07     | 0                   | 6,82E-06    | -2,04E-06                                            |
|  | Resource use, mineral and metals [kg Sb eq.] <sup>1</sup>   | 1,07E-07         | 3,94E-10              | 7,32E-10        | 0         | 0              | 0         | 0              | 0                | 0                            | 0                           | 4,38E-11                          | 3,42E-11     | 0                   | 9,53E-11    | -3,58E-09                                            |
|                                                                                     | Resource use, energy carriers [MJ] <sup>1</sup>             | 3,50E+00         | 6,10E-02              | 1,50E-02        | 0         | 0              | 0         | 0              | 0                | 0                            | 0                           | 2,00E-03                          | 5,00E-03     | 0                   | 1,90E-02    | -9,00E-03                                            |
|  | Water deprivation potential [m³ world equiv.] <sup>1</sup>  | 5,40E-02         | 6,88E-05              | 1,19E-04        | 0         | 0              | 0         | 0              | 0                | 0                            | 0                           | 4,93E-06                          | 5,99E-06     | 0                   | 1,51E-04    | -6,88E-04                                            |

<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

## RESOURCE USE

| Resources Use indicators                                                                                                                                                 | PRODUCT STAGE | CONSTRUCTION STAGE |                 | USE STAGE |                |           |                |                  |                           |                          | END OF LIFE STAGE              |              |                     |             | BENEFITS AND LOADS BEYOND THE LIFE CYCLE |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|-----------------|-----------|----------------|-----------|----------------|------------------|---------------------------|--------------------------|--------------------------------|--------------|---------------------|-------------|------------------------------------------|
|                                                                                                                                                                          | 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>2</sup>                               | 9,63E-02      | 5,00E-03           | 6,03E-04        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 9,86E-06                       | 4,44E-04     | 0                   | 3,00E-03    | -1,00E-02                                |
|  Primary energy resources used as raw materials (PERM) [MJ] <sup>2</sup>                | 1,93E-01      | 0                  | -1,12E-01       | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 0                              | 0            | 0                   | 0           | 0                                        |
|  Total use of renewable primary energy resources (PERT) [MJ] <sup>2</sup>               | 2,89E-01      | 5,00E-03           | -1,12E-01       | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 9,86E-06                       | 4,44E-04     | 0                   | 3,00E-03    | -1,00E-02                                |
|  Use of non-renewable primary energy (PENRE) [MJ] <sup>2</sup>                          | 3,48E+00      | 6,10E-02           | 1,50E-02        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 2,00E-03                       | 5,00E-03     | 0                   | 1,90E-02    | -9,00E-03                                |
|  Non-renewable primary energy resources used as raw materials (PENRM) [MJ] <sup>2</sup> | 2,63E-02      | 0                  | 1,31E-03        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 0                              | 0            | 0                   | 0           | 0                                        |
|  Total use of non-renewable primary energy resources (PENRT) [MJ] <sup>2</sup>         | 3,51E+00      | 6,10E-02           | 1,63E-02        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 2,00E-03                       | 5,00E-03     | 0                   | 1,90E-02    | -9,00E-03                                |
|  Use of secondary material (SM) [kg]                                                  | 2,84E-03      | 0                  | 1,42E-04        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 0                              | 0            | 0                   | 0           | 0                                        |
|  Use of renewable secondary fuels (RSF) [MJ]                                          | 0             | 0                  | 0               | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 0                              | 0            | 0                   | 0           | 0                                        |
|  Use of non-renewable secondary fuels (NRSF) [MJ]                                     | 0             | 0                  | 0               | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 0                              | 0            | 0                   | 0           | 0                                        |
|  Use of net fresh water (FW) [m3]                                                     | 1,31E-03      | 5,72E-06           | 3,22E-06        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 1,15E-07                       | 4,99E-07     | 0                   | 4,55E-06    | -1,52E-05                                |

<sup>2</sup> From EPD International Construction Product PCR 2.0 (Annex 3). The option B was retained to calculate the primary energy use indicators.



## WASTE CATEGORY & OUTPUT FLOWS

| Waste Category &<br>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 energy use | B7 Operational water use | C1 Deconstruction / demolition | C2 Transport | C3 Waste processing | C4 Disposal | D Reuse, recovery, recycling                            |
|    | Hazardous waste disposed (HWD) [kg]      | 4,44E-03         | 1,96E-12              | 1,70E-05        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 1,39E-06                       | 1,70E-13     | 0                   | 4,45E-07    | -3,95E-05                                               |
|    | Non-hazardous waste disposed (NHWD) [kg] | 2,40E-02         | 9,40E-06              | 5,00E-03        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 1,07E-05                       | 8,17E-07     | 0                   | 6,80E-02    | -3,96E-04                                               |
|    | Radioactive waste disposed (RWD) [kg]    | 4,90E-04         | 7,83E-08              | 1,68E-06        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 1,76E-10                       | 6,79E-09     | 0                   | 2,18E-07    | 1,37E-07                                                |
|   | Components for re-use (CRU) [kg]         | 0                | 0                     | 6,00E-03        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 0                              | 0            | 0                   | 0           | 0                                                       |
|  | Materials for Recycling (MFR) [kg]       | 0                | 0                     | 3,51E-03        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 0                              | 0            | 0                   | 0           | 0                                                       |
|  | Material for Energy Recovery (MER) [kg]  | 0                | 0                     | 0               | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 0                              | 0            | 0                   | 0           | 0                                                       |
|  | Exported electrical energy (EEE) [MJ]    | 0                | 0                     | 0               | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 0                              | 0            | 0                   | 0           | 0                                                       |
|  | Exported thermal energy (EET) [MJ]       | 0                | 0                     | 0               | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 0                              | 0            | 0                   | 0           | 0                                                       |

## ADDITIONAL VOLUNTARY INDICATORS FROM EN 15804 + A2

|                                                                                   |                                   | PRODUCT STAGE | CONSTRUCTION STAGE |                 | USE STAGE |                |           |                |                  |                           |                          | END OF LIFE STAGE              |              |                     |             | REUSE, RECOVERY RECYCLING    |
|-----------------------------------------------------------------------------------|-----------------------------------|---------------|--------------------|-----------------|-----------|----------------|-----------|----------------|------------------|---------------------------|--------------------------|--------------------------------|--------------|---------------------|-------------|------------------------------|
| 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>3</sup> | 1,14E-01      | 5,00E-03           | 8,11E-04        | 0         | 0              | 0         | 0              | 0                | 0                         | 0                        | 1,23E-04                       | 4,10E-04     | 0                   | 1,00E-03    | -6,58E-04                    |

<sup>3</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                                                           |                                           | A1 / A2 / A3  |
|  | Biogenic carbon content in product [kg]   | 1,48E-03      |
|  | Biogenic carbon content in packaging [kg] | 3,25E-03      |

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO2. The biogenic carbon content in the product comes from the coating. For packaging biogenic carbon content is quantified for the cardboard, the pallet, and the paper.

DECLARATION OF VARIATION

Variation between sites

This EPD covers one product manufactured at one site. Hence the variation in the GWP-GHG indicator between sites was not calculated.

Variations between products

According to PCR 2.0.1, since this EPD is for one product only, the variation of impact between products is irrelevant.

ADDITIONAL ENVIRONMENTAL INFORMATION:

Electricity information

The factory based in Litomyšl, Czech Republic, uses the following 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's covers 100% of the electricity consumption on the manufacturing site.

| Parameter                                   | Information                                                                                      |
|---------------------------------------------|--------------------------------------------------------------------------------------------------|
| Location                                    | Nuclear electricity purchased by Saint-Gobain ADFORS CZ, s.r.o                                   |
| Reference year                              | 2024                                                                                             |
| Geographical & technical representativeness | Share of energy sources<br>Nuclear 100%<br>2% transmission losses                                |
| Dataset version                             | Cradle to gate from Sphera database<br>Dataset: Electricity from nuclear powerplant (01/04/2024) |
| Source of electricity mix                   | Sphera database 2024: dataset valid until 2026                                                   |
| GHG-GWP CO2 eq.                             | 0,005 kg of CO2 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.

## VERSION HISTORY

Original Version of the EPD, 2026-04-30

## ABBREVIATIONS

| Abbreviation                               | Definition                                                                                                      |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| General Abbreviations                      |                                                                                                                 |
| EN                                         | European Norm (Standard)                                                                                        |
| EPD                                        | Environmental Product Declaration                                                                               |
| EF                                         | Environmental Footprint                                                                                         |
| GPI                                        | General Programme Instructions                                                                                  |
| ISO                                        | International Organization for Standardization                                                                  |
| LCA                                        | Life Cycle Assessment                                                                                           |
| PCR                                        | Product Category Rules                                                                                          |
| CEN                                        | European Committee for Standardization                                                                          |
| CPC                                        | Central product classification                                                                                  |
| Environmental Impact Indicators (EN 15804) |                                                                                                                 |
| GHG                                        | Greenhouse gas                                                                                                  |
| GWP                                        | Global Warming Potential (kg CO <sub>2</sub> eq.)                                                               |
| GWP-fossil                                 | Global Warming Potential from fossil sources (kg CO <sub>2</sub> eq.)                                           |
| GWP-biogenic                               | Global Warming Potential from biogenic sources (kg CO <sub>2</sub> eq.)                                         |
| GWP-luluc                                  | Global Warming Potential from land use and land use change (kg CO <sub>2</sub> eq.)                             |
| GWP-total                                  | Total Global Warming Potential (kg CO <sub>2</sub> eq.)                                                         |
| GWP-GHG                                    | Global Warming Potential for greenhouse gases (kg CO <sub>2</sub> eq.)                                          |
| ODP                                        | Ozone Depletion Potential (kg CFC-11 eq.)                                                                       |
| AP                                         | Acidification Potential (mol H <sup>+</sup> eq.)                                                                |
| EP                                         | Eutrophication Potential                                                                                        |
| EP-freshwater                              | Freshwater eutrophication potential (kg P eq.)                                                                  |
| EP-marine                                  | Marine eutrophication potential (kg N eq.)                                                                      |
| EP-terrestrial                             | Terrestrial eutrophication potential (mol N eq.)                                                                |
| POCP                                       | Photochemical Ozone Creation Potential (kg NMVOC eq.)                                                           |
| ADP                                        | Abiotic Depletion Potential                                                                                     |
| ADP-minerals&metals                        | Abiotic depletion potential for non-fossil resources (kg Sb eq.)                                                |
| ADP-fossil                                 | Abiotic depletion potential for fossil resources (MJ)                                                           |
| WDP                                        | Water Deprivation Potential (m <sup>3</sup> )                                                                   |
| Resource Use Indicators                    |                                                                                                                 |
| PERE                                       | Use of renewable primary energy excluding renewable primary energy resources used as raw materials (MJ)         |
| PERM                                       | Use of renewable primary energy resources used as raw materials (MJ)                                            |
| PERT                                       | Total use of renewable primary energy resources (MJ)                                                            |
| PENRE                                      | Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials (MJ) |
| PENRM                                      | Use of non-renewable primary energy resources used as raw materials (MJ)                                        |
| PENRT                                      | Total use of non-renewable primary energy resources (MJ)                                                        |
| SM                                         | Use of secondary material (kg)                                                                                  |
| RSF                                        | Use of renewable secondary fuels (MJ)                                                                           |
| NRSF                                       | Use of non-renewable secondary fuels (MJ)                                                                       |
| FW                                         | Use of net fresh water (m <sup>3</sup> )                                                                        |

|                             |                                        |
|-----------------------------|----------------------------------------|
| Waste Indicators            |                                        |
| HWD                         | Hazardous Waste (disposed) (kg)        |
| NHWD                        | Non-Hazardous Waste (disposed) (kg)    |
| RWD                         | Radioactive Waste (disposed) (kg)      |
| Output Flow Indicators      |                                        |
| CRU                         | Components for Reuse (kg)              |
| MFR                         | Material for Recycling (kg)            |
| MER                         | Materials for Energy Recovery (kg)     |
| EEE                         | Exported Energy, Electricity (MJ)      |
| EET                         | Exported Energy, Thermal (MJ)          |
| Life cycle Stages / Modules |                                        |
| A1                          | Raw material supply                    |
| A2                          | Transport                              |
| A3                          | Manufacturing                          |
| A4                          | Transport to site                      |
| A5                          | Construction/Installation              |
| B1                          | Use                                    |
| B2                          | Maintenance                            |
| B3                          | Repair                                 |
| B4                          | Replacement                            |
| B5                          | Refurbishment                          |
| B6                          | Operational energy use                 |
| B7                          | Operational water use                  |
| C1                          | Deconstruction/Demolition              |
| C2                          | Transport to waste processing          |
| C3                          | Waste processing                       |
| C4                          | Disposal                               |
| D                           | Reuse-Recovery-Recycling potential     |
| Other Relevant Terms        |                                        |
| SVHC                        | Substances of Very High Concern        |
| EC No.                      | European Community Number              |
| CAS No.                     | Chemical Abstracts Service Number      |
| MJ                          | Megajoule                              |
| kg                          | Kilogram                               |
| m <sup>3</sup>              | Cubic Meter                            |
| NMVOC                       | Non-Methane Volatile Organic Compounds |
| Sb eq.                      | Antimony Equivalents                   |
| P eq.                       | Phosphorus Equivalents                 |
| N eq.                       | Nitrogen Equivalents                   |
| CFC-11 eq.                  | Chlorofluorocarbon-11 Equivalents      |
| CO <sub>2</sub> eq.         | Carbon Dioxide Equivalents             |
| kg C                        | Kilograms of Carbon                    |
| kg CO <sub>2</sub> eq.      | Kilograms of Carbon Dioxide Equivalent |

## REFERENCES

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