



ENVIRONMENTAL PRODUCT DECLARATION

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

Rigips Glasroc X 12,5 mm



THE INTERNATIONAL EPD® SYSTEM

The International EPD®

Programme operator: EPD international AB

Registration number:

EPD-IES-0020317

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Scope of the EPD®: Europe



Programme information

PROGRAMME:	The International EPD® System
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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 1.3.2

PCR review was conducted by: The Technical Committee of the International EPD® System
See www.environdec.com for a list of members.

President: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat www.environdec.com/contact - Contact via info@environdec.com

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

☐ EPD process certification ☒ EPD verification

Third party verifier: Dr. Andrew Norton, a.norton@renuables.co.uk

Approved by: The International EPD® System

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

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same 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 equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

Product information

Company information

Manufacturer: Saint-Gobain Rigips GmbH Germany

Production plant(s): Scholven, Germany

Management system-related certification: Gypsum products are manufactured in production plant with an integrated management system certified according to DIN EN ISO 9001:2015 and DIN EN ISO 14001:2015 and DIN EN ISO 5001:2018

Program used: EN 15804:2012+A2:2019/AC:2021 Sustainability of construction works – Environmental product declaration - core rules for the product category of construction product and The International EPD® System

PCR identification PCR 2019:14 version 1.3.2 for Construction products

Prepared by: IVL Swedish Environmental Research Institute, EPD International Secretariat

UN CPC CODE: 37530 Articles of plaster or of composition based on plaster.

Owner of the declaration: Saint-Gobain Rigips GmbH Germany

Product name and manufacturer represented: Rigips Glasroc X 12,5 mm

EPD® prepared by: Heike Zehnter, heike.zehnter@saint-gobain.com

The intended use of this EPD is for B2B communication.

Geographical scope of the EPD®: Europe

EPD® registration number: EPD-IES-0020317

Declaration issued: 2025/03/14 **valid until:** 2030/03/13

Demonstration of verification: An independent verification of the declaration was made, according to ISO 14025:2010. This verification was external and conducted by the following third party based on the PCR mentioned above.

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

Product description

Product description and description of use

Rigips Glasroc X is reinforced board with a glass-mat on both surfaces and finished with a UV resistant coating, providing outstanding performance in humid environments. This non-paper faced board therefore has a strong inherent resistance to mould growth, which is perfect for wet areas and high-humidity environments including exterior applications. Glass-mat has a physical anchorage in with the gypsum core ensuring a strong bond with the gypsum core that creates a board of high strength, solidity, and exceptional integrity.

Rigips Glasroc X is an ideal substrate for ETICS (External Thermal Insulation Systems) or Direct render application (also known as Direct Apply Systems). This high-performance board can be used for areas requiring high protection against water and it has been designed especially for exterior applications. This board is a perfect solution for exterior ceilings, external walls systems and façade cladding systems.

This Environmental Product Declaration (EPD®) describes the environmental impacts of 1m² of installed Rigips Glasroc X 12,5 mm with a weight of 11,1 kg/m² with a useful life of 50 years.

Technical data

Parameter	Value	Unit	Assessment method
EN Classification	GM-FH1	-	acc. DIN EN 15283-1
Reaction to fire	A1	-	acc. DIN EN 13501-1
Density	≥ 800	kg/m ²	acc. DIN EN 15283-1
Water vapour resistance factor, μ	18,2	-	acc. EN ISO 12572
Thermal conductivity	0,1865	W/mK	acc. DIN EN ISO 10456

Declaration of the main product components and/or materials

Description of the main components and/or materials:

Product components	Weight [%]	Post-consumer recycled material weight [%]	Biogenic material [kg C/kg product]
Gypsum	80 – 95 %	10 - 30%	0,000
Glas veil	5 – 8 %	0 %	0,066
Additives	4 - 7 %	0 %	0,001
Sum	100%	10 – 30 %	0,067
Packaging materials	Weight [kg/kg of saleable product]	Weight [% of saleable product]	Weight biogenic carbon [kg C/kg product]
Wooden pallets (reusable)	0,17	1,5 %	0,068

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).

The verifier and the program operator do not make any claim nor have any responsibility of the legality of the product.

LCA calculation information

TYPE OF EPD	Cradle to gate with options and optional modules (A+B+C+D)
DECLARED UNIT	1 m ² of installed board with a weight of 11,1 kg/m ²
SYSTEM BOUNDARIES	Mandatory stages = A1-A3; C1-C4 and D; Optional stages = A4-A5; B1-B7
REFERENCE SERVICE LIFE (RSL)	The Reference Service Life (RSL) of the Gypsum 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.
CUT-OFF RULES	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 the 5% of the whole mass and energy used, as well of the emissions to environment occurred. Flows related to human activities such as employee transport are excluded. 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.
ALLOCATIONS	Allocation has been avoided when possible and when not possible a mass allocation has been applied. The polluter pays and the modularity principles as well have been followed.
GEOGRAPHICAL COVERAGE AND TIME PERIOD	Scope: Europe Data is collected from one production site Scholven located in Germany Data collected for the year 2023
BACKGROUND DATA SOURCE	The databases Sphera 2023.2 and ecoinvent v.3.9.1
SOFTWARE	Sphera LCA for experts (GaBi) 10

LCA scope

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	EU	DE	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU
Specific data used	97% GWP-GHG																
Variation products	One site one product																
Variation sites	One site one product																

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

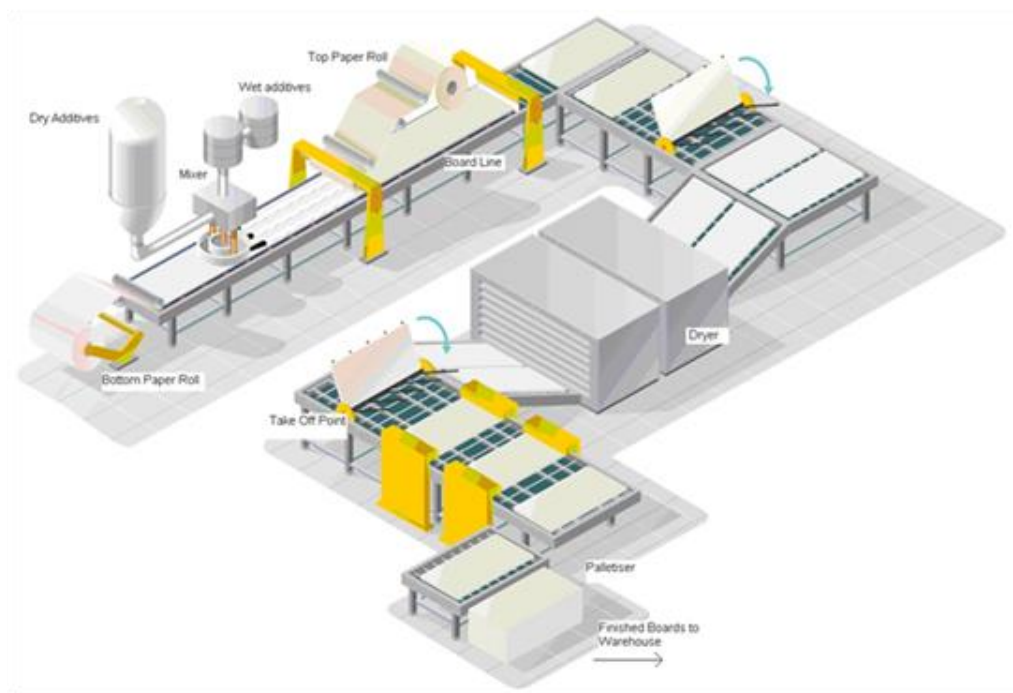
This module includes the transportation of raw materials and packaging to the manufacturing site. The modelling includes road, boat and/or train transportations.

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

System diagram:



Manufacturing in detail:

The initial materials are homogenously mixed to form a gypsum slurry that is spread via multiple hose outlets onto a glass veil on a moving conveyor belt. A second glass veil is fed onto the production line from above to form the plasterboard. The plasterboard continues along the production line where it is finished, dried, and cut to size.

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, maximum load weight of 27 t, real load is 24 t and consumption of 0.38 liters per km
Distance	100 km
Capacity utilisation (including empty returns)	85% (30% empty returns)
Bulk density of transported products*	736 kg/m ³
Volume capacity utilisation factor	< 1

To adjust the effects of transport for further distances, you will find the corresponding multiplication factors in the table 'Influence of transportation to other countries' by additional information.

A5. Installation in the building:

This module includes the parameters for installing the product at the building site. All installation materials and their waste processing are included.

PARAMETER	VALUE
Scrap rate at installation	5 % plasterboard 100 % packaging
Wastage of materials on the building site before waste processing, generated by the product's installation (specified by type)	Plasterboard: 0,56 kg / m ² board Wooden pallet (reusable): 0,002 kg / m ² saleable product
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)	Plasterboard: 0,56 kg / m ² Paper labels: 0,0002 kg /kg saleable board Wooden pallet (reusable): 0,015 kg / kg saleable board
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. In our case, the energy is considered is 0.05 MJ/m².

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	100 % collected with mixed deconstruction and demolition waste sent to landfill (including board, screws and jointing tape/compound)
Recovery system specified by type	0 kg recycled
Disposal specified by type	11,1 kg of Glasroc X to landfill (+ additional construction material e.g. screws)
Assumptions for scenario development (e.g. transportation)	Gypsum waste is transported 50 km by truck from deconstruction/demolition sites to landfill

D. Reuse/recovery/recycling potential

Building wastes are landfilled. Pallets are incinerated with energy recovery. Internal waste is reused in the board.

LCA results

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 are from the ILCD. Raw materials and energy consumption, as well as transport distances have been taken directly from the manufacturing plant. Characterisation factors EN15804 based on EF 3.1.

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.

All emissions to air, water, and soil, and all materials and energy used have been included.

The results of the impact categories abiotic depletion of minerals and metals, land use, human toxicity (cancer), human toxicity, noncancer and ecotoxicity (freshwater) may be highly uncertain in LCAs that include capital goods/infrastructure in generic datasets in case infrastructure/capital goods contribute greatly to the total results. This is because the LCI data of infrastructure/capital goods used to quantify these indicators in currently available generic datasets sometimes lack temporal, technological, and geographical representativeness. Caution should be exercised when using the results of these indicators for decision-making purposes.

This EPD including module C, we strongly advise against using the results of modules A1-A3 without considering the results of module C.

Results refer to a declared unit of 1m² of installed gypsum board 12,5 mm with a weight of 11,1kg/m². The following results refer 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.]	3,09E+00	7,94E-02	4,52E-01	0	0	0	0	0	0	0	0,00E+00	3,99E-02	0,00E+00	4,64E-01	-3,17E-02
	Climate Change (fossil) [kg CO2 eq.]	3,60E+00	7,85E-02	1,87E-01	0	0	0	0	0	0	0	0,00E+00	3,94E-02	0,00E+00	7,12E-02	-3,17E-02
	Climate Change (biogenic) [kg CO2 eq.]	-5,14E-01	2,04E-04	2,65E-01	0	0	0	0	0	0	0	0,00E+00	1,03E-04	0,00E+00	3,93E-01	-2,67E-05
	Climate Change (land use change) [kg CO2 eq.]	2,49E-03	7,26E-04	1,52E-04	0	0	0	0	0	0	0	0,00E+00	3,64E-04	0,00E+00	5,99E-05	-2,03E-05
	Ozone depletion [kg CFC-11 eq.]	5,98E-05	6,86E-15	2,99E-06	0	0	0	0	0	0	0	0,00E+00	3,44E-15	0,00E+00	1,87E-09	-3,73E-10
	Acidification terrestrial and freshwater [Mole of H+ eq.]	9,79E-03	8,86E-05	5,29E-04	0	0	0	0	0	0	0	0,00E+00	4,53E-05	0,00E+00	5,30E-04	-1,17E-04
	Eutrophication freshwater [kg P eq.]	2,99E-04	2,86E-07	1,53E-05	0	0	0	0	0	0	0	0,00E+00	1,43E-07	0,00E+00	6,52E-06	-5,52E-06
	Eutrophication marine [kg N eq.]	2,34E-03	3,03E-05	1,36E-04	0	0	0	0	0	0	0	0,00E+00	1,56E-05	0,00E+00	1,98E-04	-2,55E-05
	Eutrophication terrestrial [Mole of N eq.]	2,56E-02	3,57E-04	1,44E-03	0	0	0	0	0	0	0	0,00E+00	1,84E-04	0,00E+00	2,13E-03	-2,59E-04
	Photochemical ozone formation - human health [kg NMVOC eq.]	7,31E-03	7,69E-05	4,21E-04	0	0	0	0	0	0	0	0,00E+00	3,94E-05	0,00E+00	8,80E-04	-8,55E-05
	Resource use, mineral and metals [kg Sb eq.] ¹	9,77E-06	5,09E-09	4,93E-07	0	0	0	0	0	0	0	0,00E+00	2,55E-09	0,00E+00	8,80E-08	-1,54E-08
	Resource use, energy carriers [MJ] ¹	6,03E+01	1,07E+00	3,14E+00	0	0	0	0	0	0	0	0,00E+00	5,35E-01	0,00E+00	1,70E+00	-4,97E-01
	Water deprivation potential [m³ world equiv.] ¹	1,14E+00	9,03E-04	6,49E-02	0	0	0	0	0	0	0	0,00E+00	4,53E-04	0,00E+00	7,41E-02	-5,31E-03

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 indicators.

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] ²	6,58E+00	7,54E-02	2,64E+00	0	0	0	0	0	0	0	0,00E+00	3,78E-02	0,00E+00	3,06E-02	-5,64E-02
 Primary energy resources used as raw materials (PERM) [MJ] ²	2,51E+00	0,00E+00	-2,32E+00	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] ²	9,09E+00	7,54E-02	3,22E-01	0	0	0	0	0	0	0	0,00E+00	3,78E-02	0,00E+00	3,06E-02	-5,64E-02
 Use of non-renewable primary energy (PENRE) [MJ] ²	6,00E+01	1,07E+00	3,13E+00	0	0	0	0	0	0	0	0,00E+00	5,36E-01	0,00E+00	1,70E+00	-4,97E-01
 Non-renewable primary energy resources used as raw materials (PENRM) [MJ] ²	2,91E+00	0,00E+00	1,46E-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 non-renewable primary energy resources (PENRT) [MJ] ²	6,29E+01	1,07E+00	3,28E+00	0	0	0	0	0	0	0	0,00E+00	5,36E-01	0,00E+00	1,70E+00	-4,97E-01
 Input of secondary material (SM) [kg]	2,04E+00	0,00E+00	1,02E-01	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]	1,33E-24	0,00E+00	6,65E-26	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]	1,56E-23	0,00E+00	7,81E-25	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]	2,74E-02	8,31E-05	1,55E-03	0	0	0	0	0	0	0	0,00E+00	4,17E-05	0,00E+00	1,73E-03	-1,54E-04

² 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 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
 Hazardous waste disposed (HWD) [kg]	1,78E-04	3,95E-12	9,34E-06	0	0	0	0	0	0	0	0,00E+00	1,98E-12	0,00E+00	8,42E-06	-7,54E-07
 Non-hazardous waste disposed (NHWD) [kg]	1,71E+00	1,54E-04	6,42E-01	0	0	0	0	0	0	0	0,00E+00	7,73E-05	0,00E+00	1,11E+01	-9,97E-03
 Radioactive waste disposed (RWD) [kg]	7,68E-04	1,38E-06	3,90E-05	0	0	0	0	0	0	0	0,00E+00	6,93E-07	0,00E+00	1,36E-06	-2,50E-05
 Components for re-use (CRU) [kg]	0,00E+00	0,00E+00	1,53E-01	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]	1,11E-01	0,00E+00	5,55E-03	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	4,96E-02	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	8,94E-02	0	0	0	0	0	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Additional voluntary indicators from EN 15804

		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.] ³	3,58E+00	7,92E-02	1,86E-01	0	0	0	0	0	0	0	0,00E+00	3,92E-02	0,00E+00	7,12E-02	-3,17E-01

³ 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]	6,68E-02
	Biogenic carbon content in packaging [kg]	6,94E-02

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

The product contains biogenic carbon due to the additives and veil used. Regarding packaging, biogenic carbon is quantified due to wooden pallets production.

Additional information:

Influence of transportation to other countries

The result of stage A4 (transportation of product) in the table of this EPD refers to transportation of 100 km. This product might also be delivered to the countries in the table below. To adapt the impact of transportation in the A4 column, the results expressed in this EPD must be multiplied by a corresponding multiplication factor below.

Location	Average Distance [km]	Multiplication Factor
Europe (EPD reference value)	100	1
Germany	350	3,5
Austria	816	8,2
Belgium	450	4,5
Czech Republic	484	4,8
Denmark	631	6,3
England	1013	10,1
Finland	1973	19,7
France	726	7,3
Hungary	1148	11,5
Ireland	1495	14,9
Italy	1654	16,6
Netherlands	360	3,6
Norway	1039	10,4
Poland	948	9,5
Romania	1484	14,8
Slovakia	854	8,5
Slovenia	1000	10,0
Spain	2031	20,3
Switzerland	688	6,9
Turkey	2803	28,0

Electricity information

Saint-Gobain Rigips GmbH Germany based in 100 % uses electricity with Guarantee of Origin certificate (GO's).

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.

Type of information	Description
Location	Electricity 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: 100% energy from hydropower plants
Type of dataset	Cradle to gate from GaBi and ecoinvent databases
Source	Cradle to gate from Gabi and ecoinvent databases Guarantee of Origin certificate: Ökostrom Zertifikat Pfalzwerke
CO₂ emission kg CO₂ eq. / kWh	0,00614 kg of CO ₂ eq/kWh Climate Change - fossil indicator

Data quality

Inventory data quality is judged by geographical, temporal, and technological representativeness. To cover these requirements and to ensure reliable results, first-hand industry data crossed with LCA background datasets were used. The data was collected from internal records and reporting documents from 2023. After evaluating the inventory, according to the defined ranking in the LCA report, the assessment reflects 2023 inventory data quality.

Differences with previous versions of the EPD

References

1. EN 15804:2012+A1:2013 - Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products
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