

ENVIRONMENTAL PRODUCT DECLARATION

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

Gyproc® Moisture Resistant Board (Thickness-12.5mm)

Date of issue: 2024-02-01

Validity: 5 years

Valid until: 2029-01-31

Version: 1

Scope of the EPD®: India



The environmental impacts of this product have been assessed over its whole life cycle. Its Environmental Product Declaration has been verified by an independent third party.

Registration number
The International EPD® System:
S-P-09820

Manufacturers address:
Saint-Gobain India Pvt. Ltd., Plot No 10-17, KIADB Industrial Area,
Kanakapura, Harohalli Cross-562114, Karnataka, India



General information

Company information

Manufacturer: Saint-Gobain India Pvt. Ltd

Programme used: International EPD System <http://www.environdec.com/>

EPD registration number/declaration number: S-P-09820

PCR identification: EN 15804:2012+A2:2019 Sustainability of construction works – Environmental product declaration - core rules for the product category of construction product and PCR 2019:14 Construction products, version 1.3.2.

Site of manufacture: Saint-Gobain India Pvt. Ltd., Plot No 10-17, KIADB Industrial Area, Kanakapura, Harohalli Cross-562114, Karnataka, India

Owner of the declaration: Saint-Gobain India Pvt. Ltd., Plot No 10-17, KIADB Industrial Area, Kanakapura, Harohalli Cross-562114, Karnataka, India

Product name and manufacturer represented: Moisture Resistant Board 9,06 kg/m² – 12,5 mm produced by Saint-Gobain India Pvt. Ltd in Bengaluru

UN CPC code: 37530 Articles of plaster or of composition based on plaster

Declaration issued: 2024-02-01 **Valid until:** 2029-01-31

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.

EPD Prepared by: Mathangi Lakshmi Muralidharan, Saint-Gobain Research India.

Contact: Gujar, Niharika (Niharika.Gujar@saint-gobain.com), Mathangi Lakshmi Muralidharan (mathangilakshmi.muralidharan@saint-gobain.com).

Framework: The LCA is based on 2022 production data for one site in India.

The Declared Unit is: 1m² of installed* plasterboard 12,5 mm with a weight of 9,06 kg/m² with a useful life of 50 years

*Installed in interior drywall systems, suspended ceiling, partition wall, wall lining, and curtain wall applications

Declaration of Hazardous substances: (Candidate list of Substances of Very High Concern): none

Geographical scope of the EPD®: India

The intended use of this EPD is for B2B communication.

Programme information

PROGRAMME:	The International EPD® System, The International EPD® System India
ADDRESS:	EPD International AB - Box 210 60 - SE-100 31 Stockholm - Sweden
WEBSITE:	www.environdec.com , www.environdecindia.com
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Product Category Rules (PCR)

CEN standard EN 15804 serves as the core Product Category Rules (PCR)
Product category rules (PCR): PCR 2019:14 Construction products, version 1.3.2.
Prepared by: IVL Swedish Environmental Research Institute, EPD International Secretariat

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

Life cycle assessment (LCA)

LCA accountability: Mathangi Lakshmi Muralidharan, Saint-Gobain Research India

Third-party verification

Independent third-party verification of the declaration and data, according to ISO 14025:2006:
 EPD verification by individual verifier
Demonstration of verification: An independent verification of the declaration was made, according to EN ISO 14025:2010. This verification was external and conducted by a third party, based on the PCR mentioned above.
Third party verifier: Sunil Kumar, SIPL
Telephone: +91 9911921666
email: sunil@sipl-sustainability.com
Approved by: The International EPD® System

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

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

EPDs within the same product category but registered in different EPD programmes 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.

Product information

Product description and use:

This Environmental Product Declaration (EPD®) describes the environmental impacts of 1 m² of installed plasterboard 12.5 mm with a weight of 9,06 kg/m² in Bengaluru and an expected average service life of 50 years.

Moisture Resistant Board consists of an aerated gypsum core with special water repellent additives encased in and firmly bonded to, strong moisture-resistant paper liners that are green.

Technical data/physical characteristics:

EN classification	A 12,5 mm
Ignitability classification	P (BS-476 -Part-5)
Surface spread of flame	Class 1 (BS-476 -Part-7)
Thermal conductivity	0,19 W/(m.K) (EN 15283-1)

Description of the main product components and/or materials:

Product components	Weight (%)	Post-consumer material weight (%)	Bio C KgC
Standard product	100%	0%	0.0204 KgC/Kg
Gypsum (Natural)	85%-95%	0%	0
Foaming agent (Stable)	0%-0,1%	0%	0
Starch	0%-0,5%	0%	0.02
Dispersing agent PNS	0%-0,5%	0%	0
Retarder	0%-0,1%	0%	0.0004
Sugar	0%-0,1%	0%	0.00001
Boric acid	0%-0,1%	0%	0
Silicon Oil	0%-0,5%	0%	0
Facing	Weight (%)	Post Consumer material	Bio C KgC/Kg
Ink	0% – 0,1%	0%	0
Paper (Top/Bottom)	0% – 5%	0%	0.0088
Edge glue	0% – 0,1%	0%	0
Edge Tape	0% – 0,1%	0%	0
Packaging materials	Weight (%) (versus the product)	Post Consumer material	BioC KgC/Kg
Paper label	0% – 0,5%	0%	3.32E-06
Cardboard	0 % – 5%	0%	0.0013
Polypropylene strapping	0% – 0,5%	0%	0

During the life cycle of the product any hazardous substance listed in the “Candidate List of Substances of Very High Concern (SVHC) for authorization” has not been used in a percentage higher than 0,1% of the weight of the product.

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

LCA calculation information

EPD TYPE DECLARED	Cradle-to-gate with modules C1-C4, module D and optional modules A4-A5 and B1-B7 Product-specific (one product, one manufacturing site)
FUNCTIONAL UNIT	1 m ² of installed board with a weight of 9,06 kg/m ² and an expected average service life of 50 years
SYSTEM BOUNDARIES	Mandatory Stages= A1-A3, C1-C4 and D; Optional stages= A4-A5 and B1-B7
REFERENCE SERVICE LIFE (RSL)	The Reference Service Life (RSL) of the Gypsum product is considered to be 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. For the energy, the auxiliaries used and wastes generated during manufacturing a physical allocation based on mass was applied. Allocation criteria are based on mass. The polluter pays as well the modularity principles have been followed.
GEOGRAPHICAL COVERAGE AND TIME PERIOD	Scope includes: India Data is collected from one production site in Bengaluru India, Saint-Gobain India Pvt. Ltd Data collected for the year 2021. Cradle to gate + A4-A5 + C +D Background data: Ecoinvent 3.6 and GaBi ts 9.2
PRODUCT UN CPC CODE	37530 Articles of plaster or of composition based on plaster

According to EN 15804:2012+A2:2019, EPDs of construction products may not be comparable if they do not comply with this standard. According to ISO 21930, EPDs might not be comparable if they are from different programmes.

Life cycle stages



Product stage, A1-A3

Description of the 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 material supply.

This includes the extraction and processing of all raw materials and energy which occur upstream from the manufacturing process.

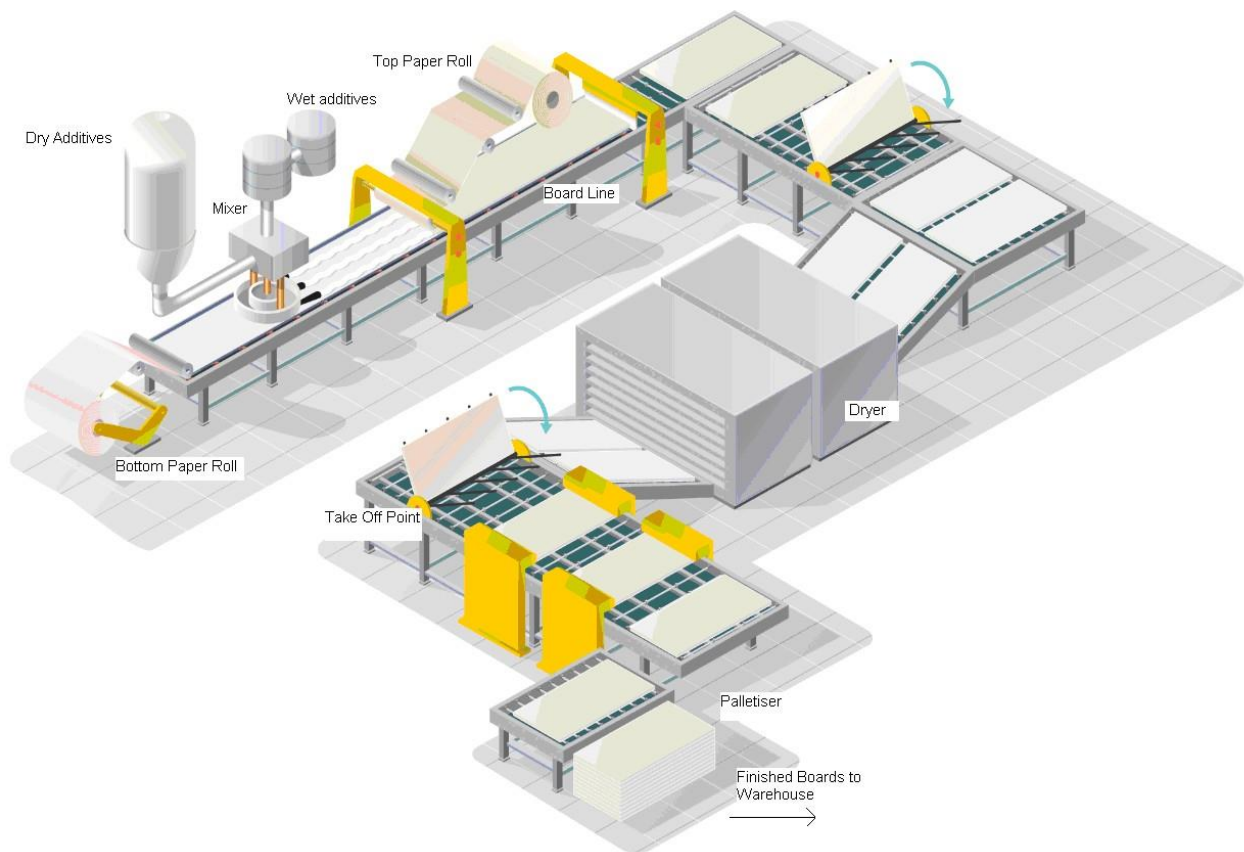
A2, transport to the manufacturer.

The raw materials are transported to the manufacturing site. The modelling includes road, boat and/or train transportations of each raw material.

A3, manufacturing.

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

Manufacturing process flow diagram



Manufacturing in detail:

The initial materials are homogeneously mixed to form a gypsum slurry that is spread via multiple hose outlets onto a paper liner on a moving conveyor belt. A second paper liner 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.

Construction process stage, A4-A5

Description of the 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 on the basis of a scenario with the parameters described in the following table.

PARAMETER	VALUE (expressed per functional unit)
Fuel type and consumption of vehicle or vehicle type used for transport e.g. long-distance truck, boat, etc.	Long distance truck, maximum load weight of 27 t and consumption of 0.38 liters per km
Distance	350 km
Capacity utilisation (including empty returns)	85% (30% empty returns): default values in Gabi
Bulk density of transported products	680 kg/m ³
Volume capacity utilisation factor	95%

A5, installation into the building.

The accompanying table quantifies the parameters for installing the product at the building site. All installation materials and their waste processing are included.

PARAMETER	VALUE (expressed per functional unit)
Ancillary materials for installation (specified by materials)	Jointing compound 0.33 kg/m ² board, jointing tape 1.23 m/m ² board, screws 8 units /m ² board
Water use	0.165 liters/m ²
Other resource use	None
Quantitative description of energy type (regional mix) and consumption during the installation process	None
Wastage of materials on the building site before waste processing, generated by the product's installation (specified by type)	Plasterboard: 0.50 kg (5%) Jointing Compound: 0.17 kg Jointing Tape: 0.0002 kg Gypsum culls: 0.01 kg
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: 0,50 kg (5%) to landfill Screws: 0.001 kg to landfill Jointing Compound: 0.017 kg to landfill Jointing Tape: 0.0002 kg to landfill Paper label: 0.000007kg to landfill Cardboard: 0.003 kg to Landfill Polypropylene strapping: 0.0001 kg
Direct emissions to ambient air, soil and water	None

Use stage (excluding potential savings), B1-B7

Description of the stage:

The use stage, related to the building fabric includes:

- B1**, use or application of the installed product;
- B2**, maintenance;
- B3**, repair;
- B4**, replacement;
- B5**, refurbishment;
- B6**, operational energy use
- B7**, operational water use

Description of scenarios and additional technical information:

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.

End-of-life stage C1-C4

Description of the stage: This stage includes the next modules:

- C1**, de-construction, demolition;
- C2**, transport to waste processing;
- C3**, waste processing for reuse, recovery and/or recycling;
- C4**, disposal, including provision and all transport, provision of all materials, products and related energy and water use.

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

PARAMETER	VALUE (expressed per functional unit)
Collection process specified by type	100% collected with mixed deconstruction and demolition waste to landfill (including paper liner, board, screws and jointing tape) 9.51 kg (board weight + ancillary)
Recovery system specified by type	0 kg recycled 100 % is sent municipal landfill
Disposal specified by type	9.51 kg to landfill
Assumptions for scenario development (e.g. transportation)	Gypsum board waste is transported 100 km by truck from deconstruction/demolition sites to landfill

Reuse/recovery/recycling potential, D

100% of wastes are landfilled. There is no reuse nor recovery nor recycling of this product. Hence, no recycling benefits are reported on stage D.

LCA results

As specified in EN 15804:2012+A2:2019 and also the Product-Category Rules, the environmental impacts are declared and reported using the baseline characterization factors are from the ILCD. Specific data has been supplied by the plant, and generic data come from GABI and Ecoinvent databases. All emissions to air, water, and soil, and all materials and energy used have been included.

All figures refer to a declared unit of 1 m² of installed plasterboard 12,5 mm with a weight of 9,06 kg/m² and an expected average service life of 50 years.

The following results corresponds to a single product manufactured in a single plant:

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	X
Geography	IN	IN	IN	IN	IN	-	-	-	-	-	-	-	IN	IN	IN	IN	IN	
Specific data used	<90% GWP- GHG																	
Variation products	0%																	
Variation sites	0%																	

Notice: 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

Environmental Impacts

	Product stage	Construction stage		Use stage							End of life stage			D Reuse, recovery, recycling		
	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	
Environmental impacts	Climate Change - total [kg CO2 eq.]	2.10E+00	5.48E-01	2.63E-01	0	0	0	0	0	0	0	4.18E-02	5.67E-02	0.00E+00	5.30E-01	0.00E+00
	Climate Change, fossil [kg CO2 eq.]	2.47E+00	5.42E-01	2.26E-01	0	0	0	0	0	0	0	4.18E-02	5.60E-02	0.00E+00	1.41E-01	0.00E+00
	Climate Change, biogenic [kg CO2 eq.]	-3.72E-01	1.27E-03	3.62E-02	0	0	0	0	0	0	0	3.97E-05	1.29E-04	0.00E+00	3.89E-01	0.00E+00
	Climate Change, land use and land use change [kg CO2 eq.]	1.76E-03	5.13E-03	6.33E-04	0	0	0	0	0	0	0	7.44E-07	5.28E-04	0.00E+00	4.11E-04	0.00E+00
	Ozone depletion [kg CFC-11 eq.]	5.20E-05	4.85E-14	2.60E-06	0	0	0	0	0	0	0	3.15E-15	7.42E-15	0.00E+00	5.29E-16	0.00E+00
	Acidification [Mole of H+ eq.]	1.36E-02	3.27E-03	1.18E-03	0	0	0	0	0	0	0	1.22E-04	3.42E-04	0.00E+00	1.02E-03	0.00E+00
	Eutrophication, freshwater [kg P eq.]	2.45E-04	2.02E-06	1.43E-05	0	0	0	0	0	0	0	9.29E-09	2.08E-07	0.00E+00	2.45E-07	0.00E+00
	Eutrophication, marine [kg N eq.]	2.76E-03	1.60E-03	3.47E-04	0	0	0	0	0	0	0	2.32E-05	1.67E-04	0.00E+00	2.63E-04	0.00E+00
	Eutrophication, terrestrial [Mole of N eq.]	2.98E-02	1.77E-02	3.72E-03	0	0	0	0	0	0	0	2.54E-04	1.85E-03	0.00E+00	2.89E-03	0.00E+00
	Photochemical ozone formation, human health [kg NMVOC eq.]	7.60E-03	3.01E-03	8.15E-04	0	0	0	0	0	0	0	7.29E-05	3.15E-04	0.00E+00	7.98E-04	0.00E+00
	Resource use, mineral and metals [kg Sb eq.]	1.02E-05	3.60E-08	1.16E-06	0	0	0	0	0	0	0	3.94E-10	3.78E-09	0.00E+00	1.28E-08	0.00E+00
	Resource use, fossils [MJ]	3.78E+01	7.53E+00	3.26E+00	0	0	0	0	0	0	0	5.16E-01	7.77E-01	0.00E+00	1.87E+00	0.00E+00
	Water use [m³ world equiv.]	5.68E-01	6.38E-03	5.69E-02	0	0	0	0	0	0	0	7.17E-05	6.89E-04	0.00E+00	1.50E-02	0.00E+00

Resources Use

Resources Use indicators	Product stage	Construction stage		Use stage							End of life stage				D Reuse, recovery, recycling
	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]	2.05E+01	5.33E-01	1.36E+00	0	0	0	0	0	0	0	2.38E-03	5.65E-02	0.00E+00	2.45E-01	0.00E+00
Primary energy resources used as raw materials (PERM) [MJ]	4.70E+00	0.00E+00	2.35E-01	0	0	0	0	0	0	0	0.00E+00	0.00E+00	0.00E+00	0	0
Total use of renewable primary energy resources (PERT) [MJ]	2.52E+01	5.33E-01	1.60E+00	0	0	0	0	0	0	0	2.38E-03	5.65E-02	0.00E+00	2.45E-01	0.00E+00
Use of non-renewable primary energy (PENRE) [MJ]	3.74E+01	7.55E+00	3.24E+00	0	0	0	0	0	0	0	5.17E-01	7.80E-01	0.00E+00	1.87E+00	0.00E+00
Non-renewable primary energy resources used as raw materials (PENRM) [MJ]	3.37E-01	0.00E+00	1.69E-02	0	0	0	0	0	0	0	0	0	0	0	0
Total use of non-renewable primary energy resources (PENRT) [MJ]	3.78E+01	7.55E+00	3.26E+00	0	0	0	0	0	0	0	5.17E-01	7.80E-01	0.00E+00	1.87E+00	0.00E+00
Input of secondary material (SM) [kg]	1.96E-01	0	1.13E-02	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]	1.49E-02	5.87E-04	1.50E-03	0	0	0	0	0	0	0	3.09E-06	6.19E-05	0.00E+00	4.72E-04	0.00E+00

Carbon footprint	Product stage	Construction stage		Use stage							End of life stage				D Reuse, recovery, recycling
	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	2.47E+00	5.42E-01	2.26E-01	0	0	0	0	0	0	0	4.18E-02	5.60E-02	0.00E+00	1.41E-01	0.00E+00

Waste Category & Output flows

Output Flows and waste category	Product stage	Construction stage		Use stage							End of life stage				D Reuse, recovery, recycling
	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]	7.68E-07	2.79E-11	4.92E-08	0	0	0	0	0	0	0	1.91E-12	2.41E-12	0.00E+00	2.85E-08	0.00E+00
Non-hazardous waste disposed (NHWD) [kg]	2.11E-02	1.09E-03	4.74E-01	0	0	0	0	0	0	0	1.22E-04	1.19E-04	0.00E+00	9.41E+00	0.00E+00
Radioactive waste disposed (RWD) [kg]	5.79E-05	9.76E-06	1.46E-05	0	0	0	0	0	0	0	6.20E-07	1.46E-06	0.00E+00	2.13E-05	0.00E+00
Components for re-use (CRU) [kg]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials for Recycling (MFR) [kg]	2.55E-02	0	2.84E-02	0	0	0	0	0	0	0	0	0	0.00E+00	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	0.00E+00	0	0	0	0	0	0	0	0	0	0	0	0
Exported thermal energy (EET) [MJ]	0	0	0.00E+00	0	0	0	0	0	0	0	0	0	0	0	0

Information on biogenic carbon content

		Product stage
	Biogenic Carbon Content	A1 / A2 / A3
Biogenic carbon content	Biogenic carbon content in product [kg]	1.06E-01
	Biogenic carbon content in packaging [kg]	1.21E-02

Note: 1 kg biogenic carbon is equivalent to 44/12 (approx. 3,67) kg CO₂.

There is biogenic carbon content due to the production of paper liners (on board facing). There is Cardboard and paper (for labeling) used in packaging.

LCA results interpretation

Global Warming Potential (Climate Change) (GWP)

For GWP, the majority of contribution to this environmental impact is from the production modules (A1 – A3). This is primarily because the sources of greenhouse gas emissions are predominant in this part of the life cycle. CO₂ is generated upstream from the production of electricity and is also released on site by the combustion of coke, diesel and natural gas. We can see that other sections of the life cycle also contribute to the GWP. However, the production modules contribute to over 70% of the contribution. Emissions from A4 (transport to clients), waste disposal transportation in A5 (disposal after installation) and C (transport and disposal at the end of life) generate the second highest percentage of greenhouse gas emissions.

Non-renewable resources consumptions

The consumption of non-renewable resources mainly comes from the production stage. The main contributors are fossil fuels such as natural gas, diesel and coke that is consumed directly on-site or used to produce the electricity consumed on-site.

Energy Consumptions

Modules A1 – A3 have the highest contribution to total energy consumption. Energy is consumed in the form of electricity, heavy fuel oil and natural gas during the manufacture of the studied product.

Water Consumption

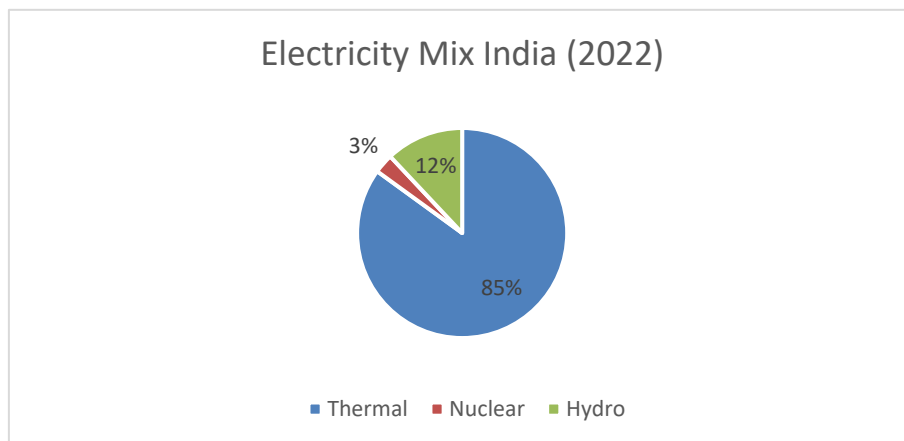
Water is used within the manufacturing facility and therefore we see the highest contribution in the production phase. The second highest contribution occurs in the installation site due to the water used on the joint components.

Waste Production

The largest contributor is the end of life module. This is because the 100% of the product is assumed to be sent to landfill once it reaches the end of life state.

Additional information

Electricity description



Type of information	Description
Location	Representative of Electricity purchased by Saint-Gobain India Pvt. Ltd India
Geographical representativeness description	Split of energy sources in India - Coal 85% - Nuclear 3% - Hydro 12%
Reference year	2022
Type of data set	Cradle to gate from Eco-invent database
Source	Gabi database from Central Electricity Authority of India (CEA)
CO ₂ emissions	0.271 kg CO ₂ eq. / kWh (Based on 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 Saint-Gobain India Pvt. Ltd. After evaluating the inventory, according to the defined ranking in the LCA report, the assessment reflects good inventory data quality.

References

1. EPD International (2021) General Programme Instructions for the International EPD® System. Version 4.0, dated 2021-03-29. www.environdec.com.
2. The International EPD System PCR 2012:01 Construction products and Construction services, Version 1.3.2
3. EN 15804:2012+A2:2019 Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products
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