



ENVIRONMENTAL PRODUCT DECLARATION

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

Gyproc DuraLine® Plus/MR 19mm

Version: 1

Date of publication: 2023/08/29

Validity: 5 years

Valid until: 2028/08/30

Scope of the EPD®: Malaysia and
Singapore



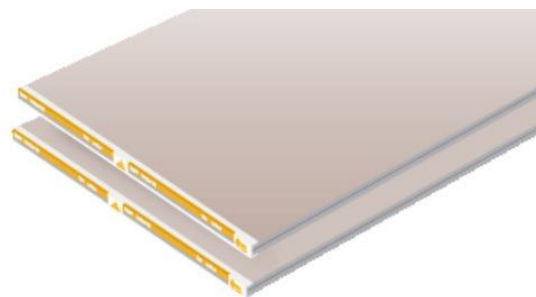
THE INTERNATIONAL EPD® SYSTEM

The International EPD®

Programme operator: EPD international AB

System Registration number:

S-P: 06679



Manufacturer address: No.1, Jalan Sultan Mohamad
4, Kawasan Perindustrian Bandar Sultan
Suleiman, 42000 Port Klang, Selangor Malaysia.

General information

Company & EPD information

Manufacturer: Saint-Gobain Malaysia Sdn Bhd, No.1, Jalan Sultan Mohamad 4, Kawasan Perindustrian Bandar Sultan Suleiman, 42000 Port Klang, Selangor Malaysia

Programme used: The International EPD® System

PCR identification: 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 2019:14 version 1.2.5 for Construction products and Construction services

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 Malaysia Sdn Bhd,

Product name and manufacturer represented: Gyproc DuraLine® Plus/MR 19mm – 16.9kg/m² (nominal density of 889kg/m³) produced by Saint-Gobain Malaysia Sdn Bhd in Port Klang plant

EPD® prepared by: LCA Central Team, Saint-Gobain

Contact: Ivan Tay (ivan.tay@saint-gobain.com), June Chow (june.chow@saint-gobain.com), Patricia Jimenez (Patricia.JimenezDiaz@saint-gobain.com).

Geographical scope of the EPD®: Malaysia and Singapore

EPD® registration number: S-P-06679

Declaration issued: 2023/08/29 valid until: 2028/08/30

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

Programme information

PROGRAMME: The International EPD® System

ADDRESS: EPD International AB - Box 210 60 - SE-100 31 Stockholm - Sweden

WEBSITE: www.environdec.com

E-MAIL: info@environdec.com

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

Product category rules (PCR): PCR 2019:14 Construction Products, version 1.2.5

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: Andrew Norton, Renuables <http://renuables.co.uk>

Approved by: The International EPD® System

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

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

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

Product description and description of use

This Environmental Product Declaration (EPD®) describes the environmental impacts of 1m² of installed gypsum board 19 mm with a weight of 16.9kg/m² (nominal density of 889kg/m³) with a useful life of 50 years.

Gyproc DuraLine® Plus/MR is a high-density plasterboard and classified as Type R and H gypsum plasterboard in accordance to BS EN 520 which consists of an aerated gypsum core with glass fibres and other additives encased in and firmly bonded to strong paper liners. Gyproc DuraLine® Plus/MR is a plasterboard that is suitable for dry lining internal surfaces providing fire, sound, thermal, moisture and impact resistance to create modern internal environments that offer comfort and safety for occupants.

Technical data/physical characteristics:

Gyproc DuraLine® Plus/MR conforms to BS EN 520:2004 Gypsum Plasterboard – Definitions, requirements, and test methods.

Type R: Gypsum Plasterboard with Enhanced Strength

These boards for special applications where higher strength is required have both increased longitudinal and transverse breaking loads. They have a face to which suitable gypsum plasters or decoration may be applied.

Type H: Gypsum Plasterboard with Reduced Water Absorption Rate (Applicable for MR version only)

These types of boards have additives to reduce the water absorption rate. They may be suitable for special applications in which reduced water absorption properties are required to improve the performance of the board.

BS EN classification	Type R and H
Reaction to Fire	Non-combustible (BS 476-Part 4)
Surface spread of flame	Class 1 (BS-476 -Part-7)
Fire Propagation Index	2.4 (BS-476 – Part 6)
Thermal conductivity	0.16 W/(m.K) (ISO 8302)

Declaration of the main product components and/or materials

All raw materials contributing more than 5% to any environmental impact are listed in the following table.

Product components	Weight (%)	Post-consumer material weight (%)	Biogenic material weight in (%)
Gypsum (Natural)	80% – 95%	0%	0%
Paper liner	2% – 4%	100%	100%
Additives	0% – 0,5%	0%	0%

Sum	100%	100%	100%
Packaging materials	Weight (kg/m ²)	Weight (%) - versus the product	Biogenic material weight in (%)
Pallet	0.25	1.5 %	100%
LDPE film	0.0008	0.005 %	0%

During the life cycle of the product, no hazardous substance listed in the “Candidate List of Substances of Very High Concern (SVHC) for authorization” has 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

TYPE OF EPD	Cradle to gate with options and module D
DECLARED UNIT	1 m ² of installed board with a weight of 16.9kg/m ² (nominal density of 889kg/m ³) and an expected average service life of 50 years
SYSTEM BOUNDARIES	Cradle to gate + additional modules + Module D = A + B + C +D
REFERENCE SERVICE LIFE (RSL)	The Reference Service Life (RSL) of the Gypsum product is 50 years. This value of 50 years is the expected lifespan of the product without refurbishment and corresponds to the 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 criteria are based on mass. The polluter pays principle as well as the modularity principle have been followed.
GEOGRAPHICAL COVERAGE AND TIME PERIOD	Scope: Malaysia and Singapore Data is collected from one production site Port Klang plant in Malaysia, Saint-Gobain Malaysia Sdn Bhd Data collected for the year 2018
BACKGROUND DATA SOURCE	GaBi 2020 and ecoinvent v.3.6
SOFTWARE	GaBi 8.7

According to EN 15804:2012+A2:2019/AC:2021, EPDs of construction products may not be comparable if they do not comply with this standard. According to ISO 21930: 2017 EPDs might not be comparable if they are from different programmes.

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	MY	MY	MY	MY/SG	MY/SG	-	-	-	-	-	-	-	MY/SG	MY/SG	MY/SG	MY/SG	MY/SG
Specific data used	>90% GWP- GHG																
Variation products	One site one product																
Variation sites	One site one product																

Life cycle stages



A1-A3, Product stage

Description of the stage: The product stage is subdivided into 3 modules A1, A2 and A3 respectively Raw material supply, Transport to the manufacturer and “Manufacturing”.

A1, Raw materials 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

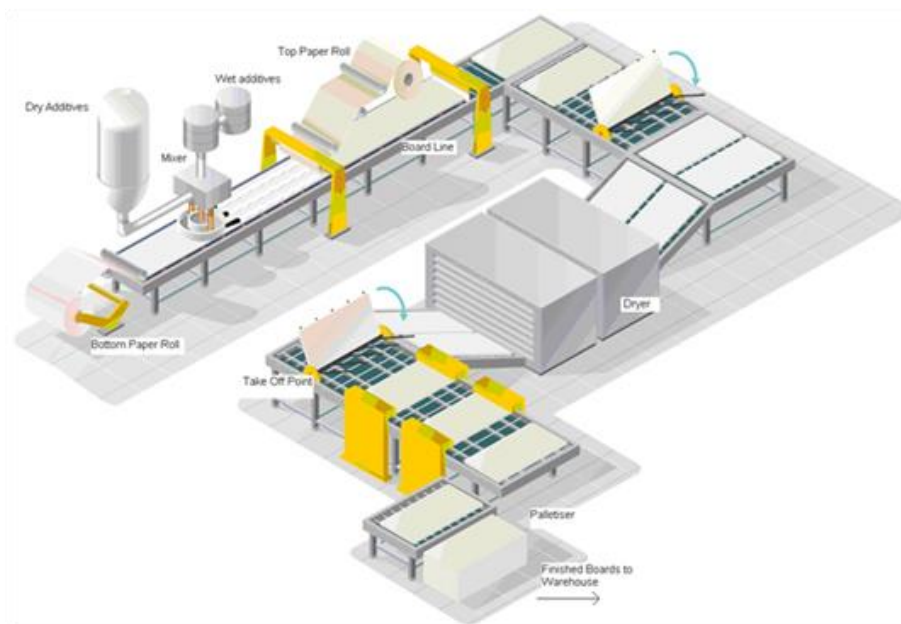
The raw materials are transported to the manufacturing site. The modelling includes road, boat and/or train transportations of each raw material.

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

System 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.

A4-A5, Construction process stage

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 declared 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 Container ship, average capacity 43000 dwt and consumption of 0.00023 kg of heavy fuel per km
Distance	Truck: 500 km Ship: 1000 km
Capacity utilisation (including empty returns)	Truck: 85% (30% empty returns) Ship: 70% default values in thinkstep dataset
Bulk density of transported products*	889 kg/m ³
Volume capacity utilisation factor	1

A5, Installation in the building

This module includes the installation materials and the management and processing of waste generated during the installation. The parameters are presented in the following table.

PARAMETER	VALUE (expressed per declared unit)
Ancillary materials for installation (specified by materials)	Jointing compound 0.5 kg/m ² board, jointing tape 2 m/m ² board, screws 10 units /m ² board
Water consumption	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: 0.84 (5%) Jointing Compound: 0.025 kg Jointing Tape: 0.0003 kg Pallet: 0.25 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: 0.84 kg (5%) to landfill Jointing Compound: 0.025 kg to landfill Jointing Tape: 0.0003 kg to landfill LDPE film: 0.00084 kg to landfill Pallet: 0.25 kg to recycling
Direct emissions to ambient air, soil, and water	None

B1-B7, Use stage (excluding potential savings)

Description of the stage: 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

Description of the scenarios and additional technical information:

The product has a reference service life of 50 years. It is assumed 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

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

- C1, Deconstruction, 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 declared unit)
Collection process specified by type	100% collected with mixed deconstruction and demolition waste to landfill (including board, screws and jointing tape/compound)
Recovery system specified by type	0 kg recycled
Disposal specified by type	17.5 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

D, Reuse/recovery/recycling potential

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/AC:2021 and the Product-Category Rules, the environmental impacts are declared and reported using the baseline characterization factors 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 1m² of installed gypsum board 19 mm with a weight of 16.9kg/m² (nominal density of 889kg/m³ with a useful life of 50 years).











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

Environmental Impacts









Environmental indicators		PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE				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
	Climate Change [kg CO2 eq.]	3,25E+00	6,46E-01	6,79E-01	0	0	0	0	0	0	0	7,83E-02	4,25E-02	0	1,16E+00	0
	Climate Change (fossil) [kg CO2 eq.]	4,64E+00	6,43E-01	3,30E-01	0	0	0	0	0	0	0	7,82E-02	4,22E-02	0	2,65E-01	0
	Climate Change (biogenic) [kg CO2 eq.]	-1,40E+00	-3,94E-04	3,48E-01	0	0	0	0	0	0	0	1,03E-04	-7,10E-05	0	8,96E-01	0
	Climate Change (land use change) [kg CO2 eq.]	8,06E-03	3,33E-03	6,91E-04	0	0	0	0	0	0	0	1,72E-06	3,42E-04	0	7,64E-04	0
	Ozone depletion [kg CFC-11 eq.]	6,49E-08	7,15E-17	3,25E-09	0	0	0	0	0	0	0	8,31E-18	7,76E-18	0	9,84E-16	0
	Acidification terrestrial and freshwater [Mole of H+ eq.]	1,52E-02	1,14E-02	1,57E-03	0	0	0	0	0	0	0	2,30E-04	2,45E-04	0	1,90E-03	0
	Eutrophication freshwater [kg P eq.]	4,80E-04	1,30E-06	2,44E-05	0	0	0	0	0	0	0	1,73E-08	1,29E-07	0	4,56E-07	0
	Eutrophication marine [kg N eq.]	3,88E-03	3,42E-03	4,34E-04	0	0	0	0	0	0	0	4,28E-05	1,18E-04	0	4,90E-04	0
	Eutrophication terrestrial [Mole of N eq.]	4,13E-02	3,76E-02	4,68E-03	0	0	0	0	0	0	0	4,69E-04	1,31E-03	0	5,38E-03	0
	Photochemical ozone formation - human health [kg NMVOC eq.]	1,04E-02	8,56E-03	1,14E-03	0	0	0	0	0	0	0	1,34E-04	2,24E-04	0	1,48E-03	0
	Resource use, mineral and metals [kg Sb eq.] ¹	7,71E-06	3,55E-08	2,75E-06	0	0	0	0	0	0	0	2,04E-09	3,42E-09	0	2,38E-08	0
	Resource use, energy carriers [MJ] ¹	7,20E+01	8,31E+00	4,74E+00	0	0	0	0	0	0	0	9,55E-01	5,64E-01	0	3,48E+00	0
	Water deprivation potential [m³ world equiv.] ¹	1,09E+00	4,09E-03	6,60E-02	0	0	0	0	0	0	0	1,62E-04	4,12E-04	0	2,78E-02	0

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 indicator


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]	4,35E+00	3,16E-01	5,64E-01	0	0	0	0	0	0	0	3,33E-03	3,26E-02	0	4,56E-01	0
 Primary energy resources used as raw materials (PERM) [MJ]	1,38E+01	0	6,89E-01	0	0	0	0	0	0	0	0	0	0	0	0
 Total use of renewable primary energy resources (PERT) [MJ]	1,82E+01	3,16E-01	1,25E+00	0	0	0	0	0	0	0	3,33E-03	3,26E-02	0	4,56E-01	0
 Use of non-renewable primary energy (PENRE) [MJ]	7,19E+01	8,32E+00	4,73E+00	0	0	0	0	0	0	0	9,56E-01	5,67E-01	0	3,48E+00	0
 Non-renewable primary energy resources used as raw materials (PENRM) [MJ]	1,23E-01	0	6,14E-03	0	0	0	0	0	0	0	0	0	0	0	0
 Total use of non-renewable primary energy resources (PENRT) [MJ]	7,20E+01	8,32E+00	4,74E+00	0	0	0	0	0	0	0	9,56E-01	5,67E-01	0	3,48E+00	0
 Input of secondary material (SM) [kg]	5,58E-01	0	3,04E-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]	2,82E-02	3,73E-04	1,78E-03	0	0	0	0	0	0	0	5,93E-06	3,80E-05	0	8,78E-04	0



Waste Category & Output flows

Waste Category & Output Flows	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]	2,73E-07	2,55E-07	3,54E-08	0	0	0	0	0	0	0	9,69E-11	2,62E-08	0	5,31E-08	0
 Non-hazardous waste disposed (NHWD) [kg]	5,27E-02	1,13E-03	8,78E-01	0	0	0	0	0	0	0	2,36E-04	8,98E-05	0	1,75E+01	0
 Radioactive waste disposed (RWD) [kg]	1,32E-04	9,95E-06	2,32E-05	0	0	0	0	0	0	0	1,10E-06	1,04E-06	0	3,96E-05	0
 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]	7,37E-03	0	2,53E-01	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 indicator (GWP total without biogenic CO₂)

Environmental indicators	PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE				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
 Climate Change [kg CO ₂ eq.] ²	4,64E+00	6,43E-01	3,30E-01	0	0	0	0	0	0	0	7,82E-02	4,22E-02	0	2,65E-01	0

Information on biogenic carbon content

Biogenic Carbon Content		PRODUCT STAGE
		A1 / A2 / A3
	Biogenic carbon content in product [kg]	2,45E-01
	Biogenic carbon content in packaging [kg]	1,05E-01

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

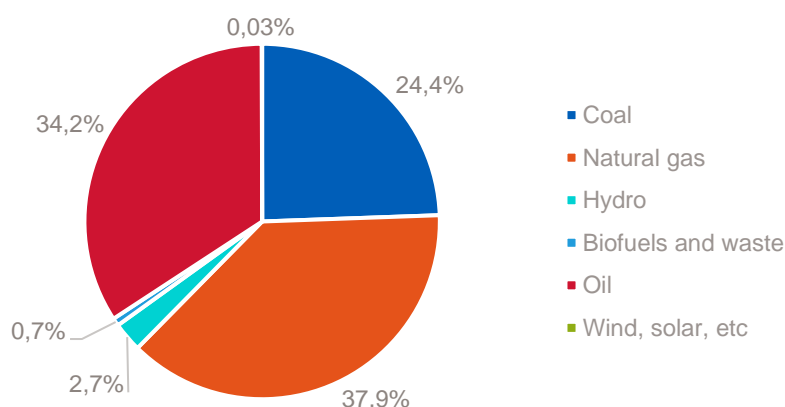
² The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product.

Additional information:

Electricity information

TYPE OF INFORMATION	DESCRIPTION
Location	Representative of Electricity purchased by [Société] (Malaysia)
Geographical representativeness	Split of energy sources of electricity grid mix in Malaysia - Coal 24.4% - Natural gas 37.9% - Hydro 2.7% - Biofuels and waste 0.7% - Oil 34.2% - Wind, solar, etc 1% - Photoelectrical 0.03%
Reference year	2019
Type of dataset	Cradle to gate from Ecoinvent 3.6 database
Source	Ecoinvent database from International Energy Agency - 2019
CO ₂ emission kg CO ₂ eq. / kWh	0.89 kg CO ₂ eq. / kWh

Electricity mix Malaysia



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 Malaysia Sdn Bhd. After evaluating the inventory, according to the defined ranking in the LCA report, the assessment reflects good inventory data quality.

Environmental impacts according to EN 15804:2012 + A1

The following tables presents results of 1m² of installed gypsum board 19 mm with a weight of 16.8 kg/m² with a useful life of 50 years according to EN 15804:2012 +A1.

	PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE				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
Global Warming Potential (GWP) [kg CO ₂ eq.]	4,56E+00	6,34E-01	3,24E-01	0	0	0	0	0	0	0	7,71E-02	4,16E-02	0,00E+00	2,60E-01	0
Ozone depletion (ODP) [kg CFC 11eq.]	5,39E-08	9,54E-17	2,69E-09	0	0	0	0	0	0	0	1,11E-17	1,03E-17	0,00E+00	1,31E-15	0
Acidification potential (AP) [kg SO ₂ eq.]	1,23E-02	8,82E-03	1,25E-03	0	0	0	0	0	0	0	1,91E-04	1,68E-04	0,00E+00	1,53E-03	0
Eutrophication potential (EP) [kg (PO ₄) ₃ -eq.]	3,18E-03	1,17E-03	2,44E-04	0	0	0	0	0	0	0	1,52E-05	4,21E-05	0,00E+00	1,72E-04	0
Photochemical ozone creation (POCP) - [kg Ethylene eq.]	7,06E-04	4,39E-04	7,79E-05	0	0	0	0	0	0	0	1,40E-05	5,90E-06	0,00E+00	1,23E-04	0
Abiotic depletion potential for non-fossil resources (ADP-elements) [kg Sb eq.]	5,86E-04	3,96E-08	3,17E-05	0	0	0	0	0	0	0	2,14E-09	3,83E-09	0,00E+00	9,19E-08	0
Abiotic depletion potential for fossil resources (ADP-fossil fuels) [MJ]	7,15E+01	8,29E+00	4,67E+00	0	0	0	0	0	0	0	9,53E-01	5,64E-01	0,00E+00	3,38E+00	0

Environmental impacts

References

1. ISO 14040:2006 Environmental Management-Life Cycle Assessment-Principles and framework.
2. ISO 14044:2006 Environmental Management-Life Cycle Assessment-Requirements and guidelines.
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