

Program: EFI Programme

EPD Reference number: 250708EPD CR:P-3100

Issue date: 18.07.2025 Valid until: 17.07.2030

**Geographical Scope:** Manufactured in Abu Dhabi (UAE)

and distributed globally.

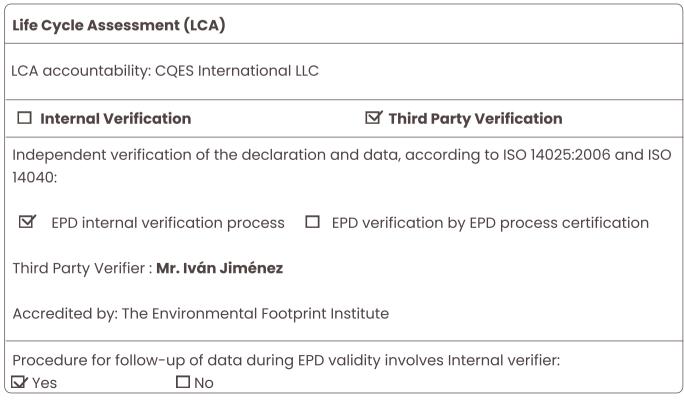






EPD Owner:	Gypsemna Co. LLC	
Address:	51 MR2, ICAD II, Musaffah	
	Abudhabi,	
	United Arab Emirates	
Website:	www.gypsemna.com	GYPSEMNA
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# Accountabilities for PCR, LCA and independent, third-party verification Product Category Rules (PCR) CEN standard EN 15804 serves as the Core Product Category Rules (PCR) PCR P-3100: Construction products in general (EN15804) PCR review was conducted by: The Environmental Footprint Institute





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

EPDs within the same product category but registered in different EPD programs 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 characterization factors); have equivalent content declarations; and be valid at the time of comparison.

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"Gypsemna" (signifies as "Our Gypsum Company" in Arabic) was established in 2006 by setting up the first world scale gypsum plasterboard plant in UAE's capital city, Mussafah (ICAD- 2) Abu Dhabi. It is currently the largest Gypsum Plasterboard manufacturing plant in the Region, with an annual production capacity of 50 million m2. Gypsemna has been operational since June 2009, catering the plasterboard demand of the region. Due to the market requirements, we swiftly expanded our product line to include not only the Gypsum Plasterboards, but also the provision of complete Drywall Systems.

### Largest in the Region

• Total Factory Area: 302,000 m2

• Built up Area: 46,662 m2

• Warehouse Area: 6,000 m2

• Production Capacity: 50 million m2/Annum or 6200m2/hr

• Plaster plant speed: 90m/min

• Warehouse Capacity: 2 million m2 of plasterboards

• Major Equipment Supplier: GRENZEBACH BSH GmbH, Germany

### **Growing Market Presence**

We have positioned our products as world-class products with an effective establishment in highly competitive international markets. Currently, we not only successfully meet the orders within the local market, but also those of exporting countries across the GCC, Middle East, Africa and South Asia. Furthermore, our short lead times have provided efficiency and consistency to the various industries.

### Solution Providers to Market Sectors

Vast production capacity ensures that we serve the following market sectors:

- Residential & Commercial Projects
- Hotels & Accommodations
- Hospitals & Health Care Centres
- · Educational Institutes
- Cinemas & Theatres
- Industrial Warehouses
- · Airports & Terminals







MENA,S LARGEST
GYPSUM PLASTERBOARD
MANUFACTURER





### PRODUCT-RELATED OR MANAGEMENT SYSTEM-RELATED CERTIFICATIONS:

The following certifications are recognized under product-related or management system-related certifications:











### **COMMITMENT TO SUSTAINABILITY**

**Gypsemna** is committed to sustainable practices through both backward and forward integration in its manufacturing processes. Our core sustainability initiatives include:

- Responsible Sourcing: Procuring raw materials from the nearest sources to minimize transportation impact and reduce emissions and using biogenic packaging and raw materials when available.
- Waste Reduction: Utilizing recycled materials and optimizing waste management to lower environmental impact and carbon footprint.

Name and location of production site: Gypsemna Co LLC, 51 MR2, ICAD II, Musaffah, Abudhabi, UAE

# **GYPSUM BOARD**GM GLASMAT BOARD R1

### **Product Overview**

Gypsemna's GLASS MAT (GM) Type X Gypsum Board is an advanced building material available in 9mm, 13mm, and 16mm thicknesses, designed for both exterior and interior applications. The board features a Type X gypsum core with enhanced moisture and mold resistance, completely encased in a proprietary BLUE fiberglass mat facing that wraps around all surfaces – including face, back, and long edges to deliver exceptional structural integrity and weather protection. The facing system utilizes 100% recycled face and back papers.

### Key Features & Composition

- Core: Type X gypsum formulation with moisture/mold inhibitors
- Encapsulation: Continuous coated fiberglass mat (BLUE) with edge-wrap technology
- Sustainability: 100% recycled paper facings
- Dimensional Stability: Fiberglass reinforcement prevents edge degradation
- Weather Resistance: Superior performance against wind-driven rain and temperature extremes

### **Applications**

- 1. Exterior Systems:
  - Wall and soffit assemblies requiring water-resistant underlayment
  - Must be installed over exterior framing with appropriate sheathing
  - Withstands prolonged exposure to rain, snow, and temperature fluctuations (-40°C to +60°C)

### 2. Interior Systems:

- High-moisture area wall construction
- Premium tile backer board for wet areas (showers, baths, etc.)
- Fire-rated ceiling assemblies



### **Technical Data**

### **Physical Properties**

Thickness, Nominal 9mm, 13mm, 16mm

Width, Nominal 1200mm

Length, Standard 2400mm, 3000mm

Weight, Nominal 5.67-15.10kg/m2,

Edges TE, SE

Color Light Blue Color

### Fire-Resistance Characteristics ASTM E84

Core Type Type X

Combustibility Non-combustible Core

Surface Burning Characteristics Class A

Smoke Development

### U

### Standards and References

ASTM C1396 ASTM D3273 ASTM C473 ASTM C1280

ASTM C840 ASTM E84

### **EPD Scope**

This Environmental Product Declaration (EPD) is based on the average production of all Gypsemna Glass Mat (GM - 9mm, 13mm and 16mm) Type X Gypsum Board products, which include variations commonly used for interior and exterior applications. The declared product has an average mass of approximately 8–15.10 kg/m², depending on the specific dimensions. The LCA results presented in this document refer to this representative product and are intended to reflect the environmental performance of similar gypsum boards within the same product family.

Declared Unit: The Declared Unit of the Life Cycle Assessments is one ton of GM GLASMAT BOARD R1 plus the

proportional part of packaging. All direct and indirect environmental impacts, as well as the use of resources, are reported referred to this unit. This EPD presents the environmental impacts associated to

the LCA of the analysed products.

Time Representativeness: January 2024 to December 2024

Database(s) and LCA software used:

Version 3.19.0.7 of software Air.e LCA™ with Ecoinvent™ 3.11.0 database has been used for LCA modelling

software used: and impacts calculations. EN15804 system model is used in this LCA.

Electricity usage in A3: A specific dataset with the Life Cycle Inventory (LCI) corresponding to the electricity mix in United Arab

Emirates, has been used for this LCA. 0.6279 kg CO2eq/kWh (GWP-GHG),

Cut-off rules: More than 99% of the materials and energy consumption have been included. The Polluter Pays

Principle and the Modularity Principle have been followed.

Allocation method: The allocation of common inputs and outputs follows the general allocation rule, which represents the

proportion of each specific product's production relative to the total production, expressed in tons.

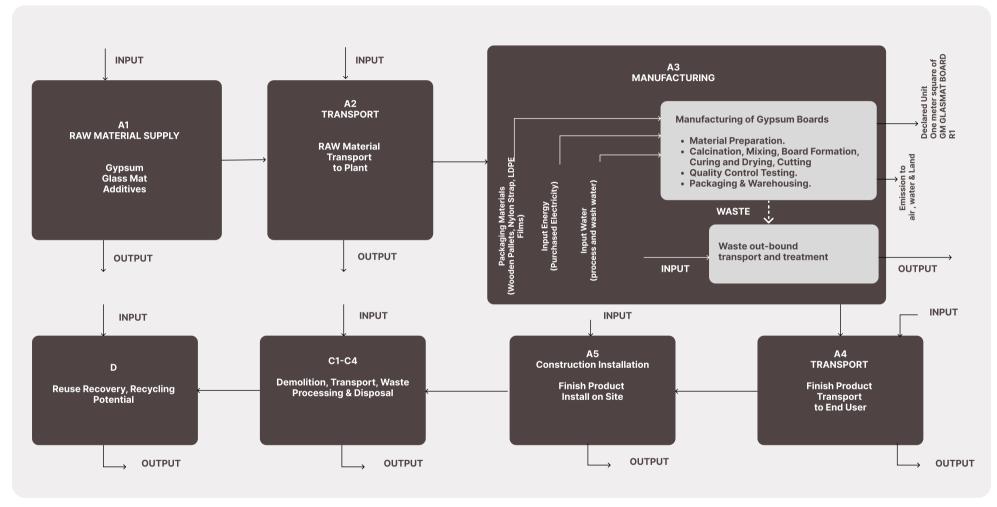
Generic process data for the production of input materials were utilized.

**Declared Unit Conversion:** 

Name	Value	Unit
DU	1	ton
Conversion factor / 1 ton	66.67	meter square

### **DESCRIPTION OF SYSTEM BOUNDARIES:**

Cradle to gate with options (A1-A3, A4,A5,C1-C4 and D. The life cycle stages B1-B7 were excluded from the LCA study.



The Life Cycle Assessment (LCA) results and associated environmental impacts presented in this document represent an average across all GM Glassmat Board R1 (9mm, 13mm and 15mm) products. Variations between individual products are minimal and primarily attributed to differences in raw material composition and production parameters. These boards are manufactured using gypsum and reinforced with glass mat, along with other additives, through a process involving calcination, shaping, and curing. The average product profile reflects the standard characteristics, manufacturing processes, and performance attributes typical of GM Glassmat Board R1 within its category.

### **SYSTEM BOUNDARIES**

This EPD covers all product stages from "cradle to gate with options," meaning this LCA includes Production stage A1-A3, Transportation A4, Installation A5, End-of-life stages C1-C4, and Resource recovery stage D in accordance with EN 15804 + A2/AC:2021.

The system boundaries of this environmental study encompass not only the processes controlled by Gypsemna Co. LLC but also include upstream and downstream activities, such as fuel extraction, material production, and electricity generation, which are not directly managed by the company.

All related direct and indirect environmental impacts associated with these elements have been calculated and are included in the LCAs within this EPD.

Possible scopes of the LCA defined in the European standard EN 15804:2012+A2:2019 are:

	Produ	ct Stage	)		on Process age	Use Stage	End of life stage				Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use, maintenance, repair, replacement, refurbishment, operational energy and water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery- Recycling-potential
Module	A1	A2	А3	A4	<b>A</b> 5	B1-B7	C1	C2	С3	C4	D
Modules declared	Х	Х	Х	Х	Х	ND	Х	Х	Х	Х	X
Geography	UAE GLO	UAE GLO	UAE	UAE GLO	UAE GLO		UAE GLO	UAE GLO	UAE GLO	UAE GLO	UAE GLO

### **CORE PROCESSES**

Al-Raw Material Supply: This stage includes the extraction and pre-treatment of raw materials essential for producing gypsum Boards. The process accounts for materials sourced from natural deposits or as by-products of industrial processes, along with the preparation of performance-enhancing additives and other components required for manufacturing.

A2 - Transport: Transport includes the delivery of raw materials and additives to the manufacturing plant, as well as the internal movement of materials within the facility. The transport of raw materials is based on weighted average values for supplier distances for the year 2024.

- Vehicle types: 3.5-7.5t & >32t trucks, Euro 5 standard
- Vehicle capacity: 3.5-7.5 tons and 25 tons
- Fuel type and consumption: Diesel, 0.38 liters per km
- Capacity utilization: 50% including empty backhauls, as assumed in Ecoinvent
- Bulk transport: Based on the mass of transported materials.

A3 - Manufacturing: The manufacturing process involves several stages, like preparation of raw materials (grinding, calcination of gypsum to stucco), mixing of stucco with additives and forming the slurry, layering the slurry between base sheets and shaping into continuous boards, drying the boards in dryers and cutting them to the required sizes, finishing, quality checks, and packaging for distribution. the electricity consumption data used for this EPD is based on the UAE grid mix from Ecoinvent, Medium Voltage.

A4 - Transport: This stage involves the transportation of gypsum Boards to construction sites. Delivery typically occurs via road and sea transport, depending on the project's location.

A5 - Installation: The installation stage involves securing the boards using mechanical fasteners or adhesives. Waste generated during installation is minimal and therefore considered negligible. Packaging waste is disposed of during Stage A5, while any installation-related waste is addressed in Module C4 (landfilling).

C1 - De-Construction/demolition: At the end of their life cycle, the boards are typically deconstructed selectively. It is assumed that 100% of the waste boards are collected as construction waste. Demolition is performed using diesel-powered machinery, with an average energy consumption of 0.01 kWh/kg, consistent with practices for non-reinforced construction materials.

C2 - Waste Transport: This stage includes the transportation of waste boards and adhesives along with other concrete wastes to disposal or recycling facilities. An average transport distance of 50 km is assumed for this stage.

C3 Waste Processing: Waste processing includes the handling of discarded boards. Gypsum board waste processing for recycling or reuse is excluded due to minimal impact, but the recycling of packaging materials is included.

C4 Disposal: At the end of their lifecycle, boards and adhesives are disposed of in construction and demolition landfills. Packaging waste is processed in Module A5.

D. Benefits and Loads: This stage evaluates the potential environmental benefits or burdens from the reuse, recycling, or energy recovery of materials at the end of life. Since no recyclable materials are utilized, this stage does not account for any significant offsets or environmental benefits.



### **CONTENT DECLARATION**

The following list includes the main components and materials used in the manufacturing and packaging of porcelain ceramic tile.

Material Used	Quantity kg/DU	Percentage (%)
Stucco	12.45	83.00
Glass-Mat Paper	0.678	4.52
Boric Acid	0.013	0.09
Additives	0.06	0.73
Vermiculite	0.142	0.95
Fiber Glass	0.057	0.38
Retarder	0.05	0.33
Water	1.5	10
Total	15.00	100%

Packaging	Weight	Weight %	Weight biogenic carbon, kg C/kg of packaging material
Material	kg/DU	(Versus the Product)	
Nylon Straps	3.06E-05	3.06E-03	0.00E+00

Dangerous substances from the candidate list of SVHC for Authorisation:

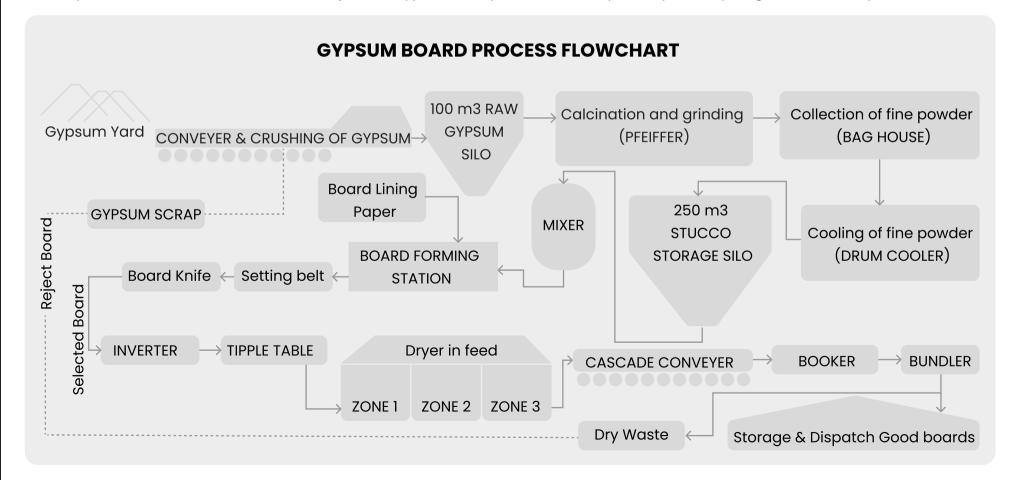
Dangerous substances from the candidate list of SVHC for Authorisation:	EC No.	CAS No.	Weight (%) per declared unit
None			
None			

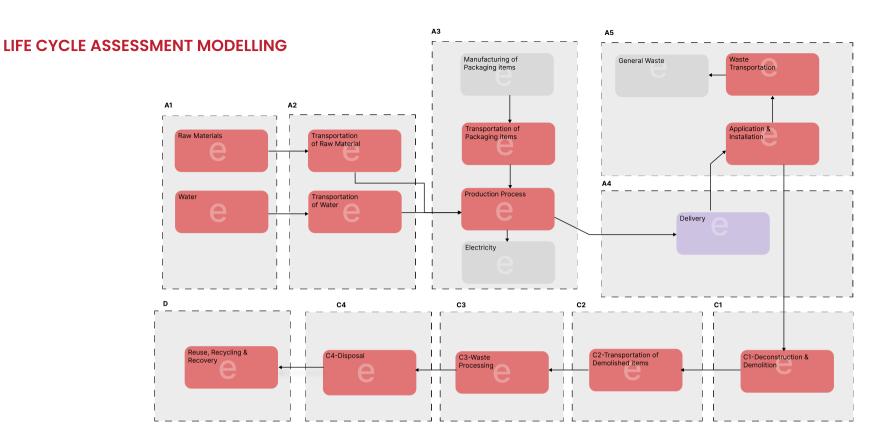
### **BIOGENIC CARBON CONTENT:**

Biogenic carbon content	Kg C/Declared Unit
Biogenic carbon content in product	0.00E+00 kg C
Biogenic carbon content in accompanying packaging	0.00E+00 kg C

### **MANUFACTURING PROCESS:**

The gypsum board manufacturing process starts with raw gypsum sourced from the yard, which is conveyed and crushed. The crushed material is then stored in a 100 m³ silo before undergoing calcination and grinding in a Pfeiffer mill to produce stucco. The resulting fine powder is collected in a baghouse and subsequently cooled using a drum cooler. The cooled stucco is transferred to a 250 m³ storage silo, from where it is fed into a mixer. Here, it is blended with wet and dry additives to form a homogeneous slurry. This slurry is poured onto a continuously moving belt lined with paper at the board forming station. A board knife cuts the continuous sheet into specified lengths, which then pass through various stages including the inverter, tipple table, and cascade conveyor to facilitate initial setting and pre-drying. The boards then enter a multi-zone dryer where remaining moisture is removed. Upon exiting the dryer, the boards are inspected and sorted: acceptable boards proceed to the take-off, bundler, and booker for final handling and dispatch, while defective boards are rejected. Gypsum scrap is collected separately for recycling back into the process.





### **ENVIRONMENTAL PERFORMANCE**

### Potential Environmental Impacts

In the following tables, the environmental performance of the declared unit, "One ton of Product (Gypsum Boards)," is presented for Gypsemna Co. LLC. The data encompasses the product's total environmental impact and its contribution across all sub-phases of the life cycle. During the assessment, no significant differences were observed in the consumption of electricity, water, diesel, raw materials, and chemicals across the manufacturing process for gypsum boards. As such, calculations are based on total production versus total consumption, normalized to the production of the declared product. These EPD values are specifically applicable to gypsum boards, and the estimated impact results are relative statements. They do not indicate endpoint impacts, threshold exceedances, safety margins, or associated risks.

EN 15804 + A2 disclaimers: The indicators for Abiotic Depletion and Water Use, along with all optional indicators except for Particulate Matter and Ionizing Radiation (Human Health), should be interpreted with caution. High uncertainties or limited experience with these indicators necessitate careful application of the results.

### **CORE ENVIRONMENTAL IMPACT INDICATORS**

Impact Category	Unit	A1	A2	A3	A4	A5	B1-B7	C1	C2	C3	C4	Total	D
Climate change (GWP) –fossil		2.60E+02	1.20E+01	1.98E+01	5.91E+01	1.69E-03	0.00E+00	3.62E+00	9.89E+00	0.00E+00	6.26E+00	3.71E+02	0.00E+00
Climate change (GWP) –biogenic	kg CO2e	9.67E-01	2.06E-03	2.82E-03	1.28E-02	1.50E-02	0.00E+00	3.61E-04	2.27E-03	0.00E+00	1.94E-03	1.00E+00	0.00E+00
Climate change (GWP) -LULUC	kg CO2e	3.66E-01	6.18E-03	1.83E-03	2.71E-02	4.70E-07	0.00E+00	3.71E-04	4.54E-03	0.00E+00	3.58E-03	4.09E-01	0.00E+00
Climate change (GWP) – total	kg CO2e	2.61E+02	1.20E+01	1.98E+01	5.92E+01	1.67E-02	0.00E+00	3.62E+00	9.90E+00	0.00E+00	6.26E+00	3.72E+02	0.00E+00
Ozone depletion	kg CFC-11e	3.41E-04	1.65E-07	4.49E-07	7.59E-07	1.25E-11	0.00E+00	5.38E-08	1.34E-07	0.00E+00	1.74E-07	3.43E-04	0.00E+00
Acidification	mol H+e	1.73E+00	2.70E-01	4.00E-02	3.81E-01	5.15E-06	0.00E+00	3.24E-02	2.37E-02	0.00E+00	4.38E-02	2.53E+00	0.00E+00
Eutrophication, aquatic freshwater	kg Pe	7.86E-02	6.64E-04	1.57E-03	5.97E-03	2.22E-06	0.00E+00	1.17E-04	1.08E-03	0.00E+00	5.48E-04	8.86E-02	0.00E+00
Eutrophication, aquatic marine	kg Ne	3.44E-01	6.81E-02	8.79E-03	1.07E-01	5.42E-05	0.00E+00	1.51E-02	5.52E-03	0.00E+00	1.69E-02	5.66E-01	0.00E+00
Eutrophication, terrestrial	mol Ne	4.55E+00	7.55E-01	9.01E-02	1.18E+00	1.59E-05	0.00E+00	1.65E-01	5.88E-02	0.00E+00	1.84E-01	6.98E+00	0.00E+00
Photochemical ozone formation	kg NMVOCe	1.15E+00	2.10E-01	5.62E-02	3.94E-01	1.11E-05	0.00E+00	4.94E-02	3.21E-02	0.00E+00	6.63E-02	1.95E+00	0.00E+00
Abiotic depletion, minerals & metals	kg Sbe	5.24E-03	1.94E-05	1.44E-04	1.78E-04	1.74E-09	0.00E+00	1.26E-06	3.30E-05	0.00E+00	9.11E-06	5.63E-03	0.00E+00
Abiotic depletion of fossil resources	MJ	3.58E+03	1.52E+02	3.38E+02	8.07E+02	1.25E-02	0.00E+00	4.72E+01	1.37E+02	0.00E+00	1.53E+02	5.22E+03	0.00E+00
Water use	m³ W.ed	1.10E+02	5.32E-01	2.36E+00	4.19E+00	-4.89E-03	0.00E+00	1.23E-01	7.75E-01	0.00E+00	6.78E+00	1.25E+02	0.00E+00

## **USE OF NATURAL RESOURCES**

Use of Natu							ř	-		1	
Impact Category	UNIT	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total	D
Renewable PE used as energy	MJ	4.69E-03	1.52E-04	3.63E-09	0.00E+00	4.93E-06	2.73E-05	0.00E+00	2.24E-05	4.89E-03	0.00E+00
Renewable PE used as materials	MJ	2.96E+02	1.07E+01	-2.79E-01	0.00E+00	2.96E-01	1.93E+00	0.00E+00	0.00E+00	3.09E+02	0.00E+00
Total use of renewable PE	MJ	4.08E+03	8.07E+02	1.25E-02	0.00E+00	4.72E+01	1.37E+02	0.00E+00	1.53E+02	5.22E+03	0.00E+00
Non-renew. PE used as energy	MJ	5.25E+02	3.35E+01	8.23E-02	0.00E+00	7.71E-01	6.03E+00	0.00E+00	4.03E+00	5.69E+02	0.00E+00
Non-renew. PE used as materials	MJ	4.04E+03	8.07E+02	-1.70E-01	0.00E+00	4.72E+01	0.00E+00	0.00E+00	1.53E+02	5.05E+03	0.00E+00
Total use of non- renewable PE	MJ	3.45E+02	0.00E+00	2.79E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E+02	0.00E+00
Use of secondary materials	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	MJ	2.67E+01	1.02E-01	-1.14E-04	0.00E+00	3.02E-03	1.89E-02	0.00E+00	1.58E-01	2.70E+01	0.00E+00
Use of non-renew. Secondary fuels	MJ	9.60E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E+01	0.00E+00
Use of net fresh water	m3	1.02E+03	1.07E+01	2.36E-04	0.00E+00	2.96E-01	1.93E+00	0.00E+00	1.43E+00	1.04E+03	0.00E+00



Additional Enviro					The second	1	THE STATE OF		100000	100000000000000000000000000000000000000	1
Impact Category	UNIT	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total	D
Particulate matter	Incidence	1.84E-05	4.24E-06	8.42E-11	0.00E+00	9.25E-07	7.20E-07	0.00E+00	1.01E-06	2.53E-05	0.00E+00
ionizing radiation, human	kBq U234e	1.92E+01	6.19E-01	1.11E-05	0.00E+00	2.01E-02	1.12E-01	0.00E+00	9.18E-02	2.01E+01	0.00E+00
Eco-toxicity (freshwater)	CTUe	2.08E+03	1.39E+02	2.88E-01	0.00E+00	2.56E+00	2.53E+01	0.00E+00	1.11E+01	2.26E+03	0.00E+00
Human toxicity, cancer effects	CTUe	3.90E-07	1.03E-08	5.69E-13	0.00E+00	3.69E-10	1.64E-09	0.00E+00	1.13E-09	4.04E-07	0.00E+00
Human toxicity, non- cancer	CTUe	2.74E-06	4.69E-07	8.52E-11	0.00E+00	5.80E-09	8.58E-08	0.00E+00	2.55E-08	3.32E-06	0.00E+00
Land use related impacts/soil	Dimensionless	1.07E+03	4.31E+02	2.02E-02	0.00E+00	3.12E+00	8.18E+01	0.00E+00	3.01E+02	1.88E+03	0.00E+00

EN 15804+A2 disclaimer for Ionizing radiation, human health. This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Additional Environ											
Impact Category	UNIT	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total	D
GEP-GHG	kg CO2e	3.79E-01	2.76E-02	4.81E-07	0.00E+00	3.75E-04	4.61E-03	0.00E+00	3.71E-03	4.15E-01	0.00E+00

This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product as defined by IPCC AR 5 (IPCC 2013) This indicator is almost equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

End of Life											
Impact Category	UNIT	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total	D
Hazardous waste	Kg	3.66E+00	1.10E-01	1.37E-06	0.00E+00	1.05E-03	2.07E-02	0.00E+00	5.28E-03	3.79E+00	0.00E+00
Non-hazardous waste	Kg	3.74E-01	8.68E-02	2.17E-07	0.00E+00	2.10E-04	1.57E-03	0.00E+00	1.66E-03	4.64E-01	0.00E+00
Radioactive waste	Kg	3.34E+01	0.00E+00	1.83E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E+01	0.00E+00

End of Life - waste			The same						Take 1		
Impact Category	UNIT	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	Total	D
Components for reuse	Kg	0.00E+00									
Materials for recycling	Kg	1.54E-03	4.99E-05	8.76E-10	0.00E+00	6.70E-07	9.30E-06	0.00E+00	2.95E-06	1.60E-03	0.00E+00
Materials for energy recovery	Kg	2.19E+01	1.77E+00	2.81E-05	0.00E+00	5.29E-02	3.13E-01	0.00E+00	1.62E-03	2.40E+01	0.00E+00
Exported energy - electricity	MJ	0.00E+00									
Exported energy - thermal	MJ	2.07E+00	6.43E-02	1.47E-06	0.00E+00	2.23E-03	1.16E-02	0.00E+00	9.95E-03	2.16E+00	0.00E+00



### MANDATORY STATEMENTS

Explanatory material can be obtained from EPD owner and/or LCA author. Contact information can be found below. The owner of the declaration shall be liable for the underlying information and evidence. The LCA Author shall not be liable with respect to manufacturer information, life cycle assessment data and evidences. The verifier and The Environmental Footprint Institute do not make any claim or present any responsibility about the legality of the product. EPDs within the same product category but from different programs may not be comparable.

### **CONTACT INFORMATION**

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### **ADDITIONAL INFORMATION**

No additional information is provided.

### INFORMATION RELATED TO SECTOR EPD

This is not sector EPD.

### **DIFFERENCES VERSUS PREVIOUS VERSIONS**

This is the first version of the EPD.

### **REFERENCES**

- · LCA Report: Life Cycle Inventory of GM GLASMAT BOARD R1 by Gypsemna Co. LLC.
- Software: Air.e LCA Version 3.19.0.6 www.solidforest.com
- · Main database: Ecoinvent 3.11.0 www.ecoinvent.org
- Geographical scope of the EPD: United Arab Emirates.
- ISO 14040:2006 "Environmental management -- life cycle assessment -- principles and framework";
- ISO 14044:2006 "Environmental management -- life cycle assessment -- requirements and guidelines";
- ISO 14020:2000 "Environmental Labels and declarations General Principles
- ISO 14025:2006 "Environmental labels and declarations -- type III environmental declarations principles and procedures".
- EN 15804+A2:2019/AC:2021 European Committee for Standardization: Sustainability of construction works Environmental product declarations Core rules for the product category of construction products.

