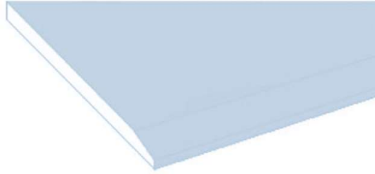




TECHNICAL DATASHEET

12.5mm GM - BOARD



DESCRIPTION

EL-KHAYYAT GM (Glass Mat) Board was designed and a revolutionary external sheathing board, faced with water repellent material for superior weather protection. Strong, highly moisture resistant and A1 noncombustible. is a faster way to a weather tight building compared to traditional sheathing board products.

BASIC USES

Applications

- Suitable for external sheathing applications in steel or timber frame construction with rainscreen, insulated render, brick, or block facade systems.
- As a general external sheathing board
- As an external sheathing board substrate for insulation boards

Advantages

- Fire ratings up to four hours.
- Helps inhibit mold growth with the highest possible score on mold tests score of 10 (best) (ASTM D3273).
- Provides high-rated Sound Class Transmission (STC) values per an independent third-party acoustical laboratory using ASTM E90 test procedures.
- Features fiberglass mesh embedded into its core, one of the toughest components.
- Uniform high-strength cores eliminate crumbling, cracking.
- Accepts a variety of exterior finishes.

Applicable Standards and References

- ASTM C473** Standard Test Methods for Physical Testing of Gypsum Panel Products
- ASTM C518** Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- ASTM C1396** Standard Specification for Gypsum Board
- ASTM C1177** Standard Specification for Exterior Gypsum Board
- ASTM C840** Standard Specification for Application and Finishing of Gypsum Board
- ASTM E84** Standard Test Method for Surface Burning
- ASTM D3273** Standard Test Method for Resistance to Growth of Mold on the Surface
- EN 520** Type D, F, H1, I and R standard for performance of gypsum plasterboards

PHYSICAL PROPERTIES

Thickness

12.5mm

Sizes

1200mm x 2400mm

1200mm x 3000mm

Edge:

Squared

Board weight:

12.5 mm X 2400 mm x1200 mm (37.40 kg)

Flexural Strength to BS EN 15283-1:

Longitudinal breaking $\geq 870N$

Transverse breaking load $\geq 360N$

Humidified Deflection 3mm

Nail Pull Resistance (N) 563

Hardness Core (N) 317

Hardness Edges (N) 326

Hardness Ends (N) 300

Mass:

12.5 mm board (14 kg/m²)

Thermal Resistance, R:

12.5 mm = 0.060 m²K/W

Moisture Resistance:

Maximum water uptake after 2h total immersion in water: < 3%

Fire-Resistance Characteristic:

Core Type	Type X
Combustibility	Non-combustible Core
Surface Burning Characteristics	Class A
Flame Spread ³	10
Smoke Development ³	0