



TECHNICAL DATASHEET

12.5mm FRMR - BOARD



DESCRIPTION

EL-KHAYYAT FRMR (Fire Rated Moisture Resistance) Board is for use in areas where increased fire resistance is required, and moisture exposure is possible. The board is stronger, harder, and heavier than Standard plasterboard and has superior fire resistance.

The face paper is folded around the long edges to reinforce and protect the core, and the ends are square-cut and finished smooth. Long edges of the panels are tapered.

BASIC USES

Applications

- Use it on steel-framed construction for interior wall and ceiling applications.

Advantages

- Suitable for all interior applications, including walls and ceilings. Also use it as a tile backerboard in dry areas and in areas with moisture.
- Fire-resistant material up to four hours
- It is dimensionally stable and resists sagging, buckling, and warping.
- The panel features a naturally noncombustible gypsum core and 100% recycled facing and backing paper that will accept most decorative finishes.
- Easily scored and snapped to exact size without sawing.

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 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 I,F and H1 standard for performance of gypsum plasterboards

PHYSICAL PROPERTIES

Thickness

12.5mm

Sizes

1200mm x 2400mm

1200mm x 3000mm

Edge:

Tapered, Squared

Board weight:

12.5 mm X 2400 mm x1200 mm (29.70 kg)

Flexural Strength to BS EN 15283-1:

Longitudinal breaking $\geq 680N$

Transverse breaking load $\geq 310N$

Humidified Deflection 3mm

Nail Pull Resistance (N) 551

Hardness Core (N) 312

Hardness Edges (N) 193

Hardness Ends (N) 289

Mass:

12.5 mm board (10.30 kg/m²)

Thermal Resistance, R:

12.5 mm = 0.050 m²K/W

Moisture Resistance:

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

Fire-Resistance Characteristic:

Core Type	Type X
Combustibility ²	Non-combustible Core
Surface Burning Characteristics	Class A
Flame Spread ³	15
Smoke Development ³	0