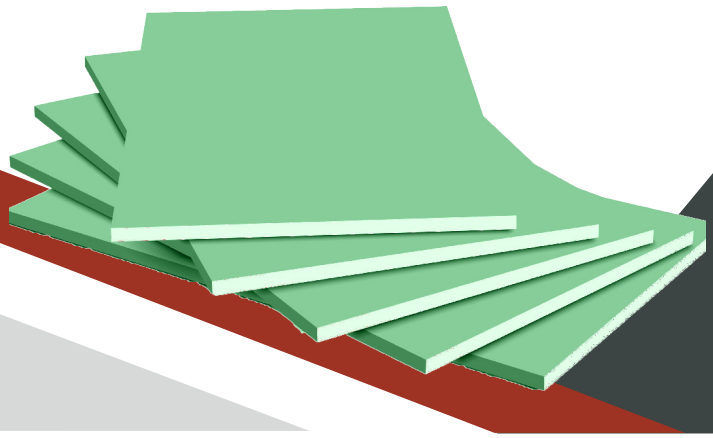
Gboard® FMR



Certified MS
ISO 9001:2015
No. Cert. 1118/Δ/2019

DESCRIPTION

Gboard® FMR is a fire and moisture resistant gypsum board with fiberglass and silicon oil in the core. Gboard® FMR has the combined properties of Gboard® FR and Gboard® MR. It has a green paper front face and a pink back face.

It has a wide range of applications where increased fire resistance and moisture repellency are required. Hence, Gboard® FMR is highly performant in interiors exposed to both elements.

All materials are certified based on ASTM and EN standards and tested in approved laboratories.

APPLICATIONS

- Suspended ceiling systems
- Wall claddings
- Drywall partitions
- Commercial and residential buildings
- Shaft walls
- Hospitals, bathrooms, airports, kitchens…

FEATURES

- High fire resistance
- Hydrophobic boards with anti-moisture absorption
- Easy and dry installation
- Eco-friendly
- Thermally balanced
- Suitable sound insulation

Fire resistance | Moisture resistant | Eco-friendly | Lightweight

PROPERTIES

SURFACE FINISHING	EDGE TYPES	STANDARDS	DIMENSIONS
Painted (water or oil base paint)	Squared edge	ASTM C1396	Width 1200mm 1220mm
Cladding (wallpaper, vinyl, wood…)		ASTM C473	Length 2000mm, 2400mm, 2440mm, 2500mm, 3000mm
Joint filling with Gcoat™ All Purpose Joint Compound	Tapered edge	ASTM C518	Thicknesses 8.0mm, 9.5mm 12.5mm, 15mm, 15.9mm, 18mm
		ASTM E84	

*Varying dimensions available upon request

PHYSICAL SPECIFICATIONS

SPECIFICATIONS	UNIT	VALUE	STANDARD
Thickness	mm	12.5	ASTM C 1396
Density	Kg/m^3	764.84	ASTM C 1396
Weight per unit area	Kg/m^2	9.48	ASTM C 1396
Tolerance of length	mm	2402	ASTM C 1396
Tolerance of width	mm	1201	ASTM C 1396
Tolerance of thickness	mm	12.5	ASTM C 1396
Depth of taper	mm	1.26	ASTM C 1396
Width of taper	mm	43.7	ASTM C 1396
Squareness of edges	mm	1.5	ASTM C 1396
Core hardness	N	270	ASTM C 1396
Edges hardness	N	212	ASTM C 1396
Ends hardness	N	247	ASTM C 1396
Flexural breaking load long edge	N	504	ASTM C 1396
Flexural breaking load short edge	N	231	ASTM C 1396
Nail pull strength	N	379	ASTM C 1396
Bending radius	mm	1905	ASTM C 1396
Humidified deflection	mm	1.4	ASTM C 1396
Thermal conductivity	W/m.K	0.1694	ASTM C 518
Water absorption	%	3.8	ASTM C 1396
Flame spread index (FSI)	-	5	ASTM E 84
Smoke development index (SDI)	-	15	ASTM E 84

RECOMMENDATION

- Cutting and scoring are completed from the front face of the board.
- Use phosphate plated self-tapping screws with a metal frame <0.7mm for board fixing.
- Use phosphate plated self-drilling for a metal frame >0.7mm for board fixing.
- Vertical screw spacing for the first layer of gypsum is 25cm, 50cm for the second, and 75cm for the third.
- It is recommended to use Gcoat™ All Purpose Joint Compound to treat joints or for skim coating.

STORAGE AND HANDLING

- Avoid contact with water.
- Store in a dry/ventilated area above ground level (not in direct contact with the ground).
- Do not expose the board to extremely high temperatures (50°C) for prolonged periods of time.
- Cover boards with plastic sheets.
- Avoid direct rain or sunlight.
- Avoid cracking or damaging the boards during installation.

Manufactured according to ASTM & EN standards by ECOBAT For Industrial Development under BEAM Consolidated.

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