

ISO 9001:2015
No.: 92200062



ISO 14001:2015
No.: 142200063



ISO 45001:2018
No.: 452200064

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 C 1396 | Width 1200mm 1220mm |
| Cladding (wallpaper, vinyl, wood...) | Tapered edge  | ASTM C 473 ASTM C 518 | Length 2000mm, 2400mm, 2440mm, 2500mm, 3000mm |
| Joint filling with Gcoat™ All Purpose Joint Compound | Beveled edge  | ASTM E 84 | Thicknesses 8.0mm, 9.5mm 12.5mm, 15mm, 15.9mm, 18mm |

*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.

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All specifications reflect averages derived from product sample testing and are provided as guidance only. They are subject to inherent variances and may be changed without notice to improve reliability, function, or design or otherwise.

Manufactured according to ASTM & EN standards by ASK Gypsum Factory Ltd.