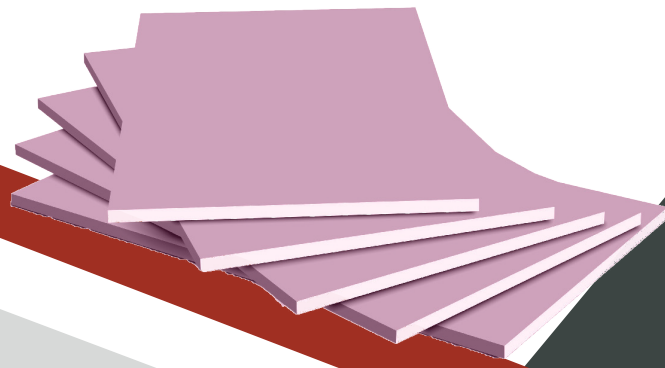




Certified MS
ISO 9001:2015
No. Cert. 1118/Δ/2019



DESCRIPTION

Gboard® Advanced FR is a fire-resistant gypsum board reinforced with fiberglass. The fiberglass acts as a retardant and protection to the board, improving the performance of the system when exposed to intense fire.

When installed in a Gboard® fire-rated system (certified 1hr and 2hr system), this board can provide up to 3hr of fire protection. All materials are certified based on ASTM and EN standards and tested in approved laboratories.



Fire
resistance



No
cracking



Lightweight

APPLICATIONS

- Fire-rated partitions
- Fire-rated suspended ceiling systems
- Wall linings
- Shaft wall encasements
- Fire components and escape areas
- Commercial and residential buildings
- Industrial kitchens, laboratories...

FEATURES

- Ultimate fire resistance
- Suitable sound insulation
- Thermally balanced
- Dimensional stability
- High strength
- High resistance to cracks
- Lightweight

PROPERTIES

SURFACE FINISHING	EDGE TYPES	STANDARDS	DIMENSIONS
Painted (water or oil base paint)	Squared edge	ASTM C 1396	Width 1200mm
Cladding (wallpaper, vinyl, wood...)		ASTM C 473	1220mm
	Tapered edge	ASTM E 119	Length 2000mm, 2400mm, 2440mm,
		ASTM E 84	2500mm, 3000mm
Joint filling with Gcoat™ All Purpose Joint Compound	Beveled edge	ASTM C 518	Thicknesses 8.0mm, 9.5mm
			12.5mm, 15mm, 15.9mm, 18mm

*Varying dimensions available upon request



PHYSICAL SPECIFICATIONS

SPECIFICATIONS	UNIT	VALUE	VALUE	STANDARD
Thickness	mm	12.5	15	ASTM C 1396
Density	Kg/m ²	841	860	ASTM C 1396
Weight per unit area	Kg/m ²	10.15	13.34	ASTM C 1396
Tolerance of length	mm	2400	2400	ASTM C 1396
Tolerance of width	mm	1201	1201	ASTM C 1396
Tolerance of thickness	mm	12.5	15	ASTM C 1396
Depth of taper	mm	1.21	1.21	ASTM C 1396
Width of taper	mm	42.6	42.6	ASTM C 1396
Squareness of edges	mm	1.8	1.7	ASTM C 1396
Core hardness	N	242	331	ASTM C 1396
Edges hardness	N	306	157	ASTM C 1396
Ends hardness	N	256	327	ASTM C 1396
Flexural breaking load long edge	N	591	694	ASTM C 1396
Flexural breaking load short edge	N	298	387	ASTM C 1396
Nail pull strength	N	386	413	ASTM C 1396
Bending radius	mm	1920	1985	ASTM C 1396
Humidified deflection	mm	1.2	2.1	ASTM C 1396
Thermal conductivity	w/m.k	0.2014	0.1956	ASTM C 518
Flame spread index (FSI)	-	0	0	ASTM E 84
Smoke development index (SDI)	-	5	5	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.
- Do not expose the board to extremely high temperatures (50°C) for prolonged periods of time.
- Store in a dry/ventilated area above ground level (not in direct contact with the ground).
- Cover boards with plastic sheets.
- Avoid direct rain or sunlight.
- Avoid cracking or damaging the boards during installation.

The information herein and recommendations set forth are presented in good faith and believed to be correct as of the date hereof, ECOBAT For Industrial Development, and its affiliated, and sister companies do not make representations or warranties as to the completeness or accuracy thereof.

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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 ECOBAT For Industrial Development.