



BEST BOARDS

Fiber Cement Board

DATA SHEET

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BEST BOARDS® Fiber Cement Board (FCB)

BEST Fiber Cement Board consists of strong core of Portland cement, silica sand, cellulosic fibers and other additives encased in to give the product high fire , moisture and climatic conditions.

BEST Fiber Cement is the ideal substrate for exterior walls in ventilated or water-managed (directly-applied) systems. Also for façade renovations, exterior ceiling applications and flooring systems.

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QA/QC Manager





Description

BEST Fiber Cement Board is a robust, non-combustible panel made of aggregated Portland cement, Silica sand and special kinds of cellulosic fibers to offer all the benefits of a dry panel system with higher strength and resistance to atmospheric tough conditions. And to be used also as building system instead of normal block

BEST Fiber Cement Board is coming with variety of designs and dimensions that can be used to give the façade requirements for interior or exterior surfaces

Application

BEST Fiber Cement Board is a high performance cement board used as the cladding component of drywall constructions such as:

- Fire and Moisture resistant partitions using metal frames
- Fire and Moisture resistant suspended ceilings using metal frames
- Fire and Moisture resistant furring and wall linings
- Fire and Moisture resistant shaft-walls

It can be also used in exterior applications for walls and ceilings as a directly-applied (water-managed) or ventilated system and in thermal insulation composite systems

Characteristics




- Lightweight constructions
- Easy, fast and dry application
- Good sound insulation performance
- High Fire and Moisture resistance performance
- Alternative to brick and block-work
- Weather and water-resistant
- Strong impact, Weather and water resistant, non-combustible with high durability
- Can be used in furniture industry instead of plywood
- Simple and easy to install
- Environmental friendly
- Limitless design options

Handling and installation

BEST Fiber Cement Board is attached to a vertical stud frame. The substructure should be selected according to the statics requirements. Depending on these requirements, it is possible to use single or double-layer planking or a combination with other United construction boards.

Technical Data

"ASTM C1185, ASTM C1186, ASTM E84, ASTM E119, ASTM D 3273"

Appearance	Light gray color	Moisture Movement (%)	≤ 0.05
Thickness (mm)	4.5, 5, 6, 9, 12, 15, 16, 18	Module Of Rapture (Mpa)	(Wet: ≥ 7) (Equilibrium: ≥ 10)
Tolerance (%)	± 6 %	Module Of Elasticity (Mpa)	5400 ± 50 "wet"
Width (mm)	600 to 1220	Adhesion/Lamina Bond	≥ 2.1
Length (mm)	2000 to 4000	Strength (Mpa)	
Tolerance (mm)	± 0.3	Screw Withdrawal Strength (N)	≥ 1600
Board type	ASTM C1186 - type A grade 2 BS-EN-12467- class 2 category A	Nail Withdrawal Strength (N)	≥ 950
Edge Details	Square Edge  Recessed Edge  Beveled Edge 	Thermal Conductivity (W/mK)	0.0862 "at 50°"
Squareness (mm)	≤ 2	Linear coefficient of thermal expansion (mm/mm/°C)	7.6 x 10 ⁻⁶
Density (kg/m³)	≥ 1350	Reaction to Fire (ASTM E84)	A1- s1,d0
Asbestos Content	None	Fire Propagation Index	0
Formaldehyde (ppm)	0.002 ppm	Surface Spread of flame	0
Total VOC Content (mg/m³)	≤ 0.023	pH value	8.5 – 9.5
Moisture Content (%)	≤ 15	Mold Growth (%)	0
		Water Absorption (%)	≤ 35 after 48 hours water immersion
		Fire Resistance (ASTM E119, EN 1363,1364)	120 mins for 15mm single layer system, 60 mins for 12mm Single layer system.