

Fiber Cement Board HD



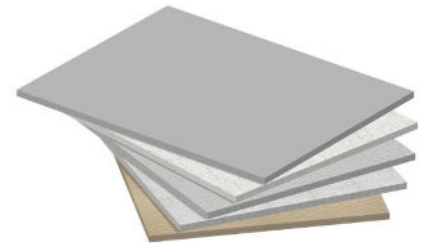
CERTIFIED M.S.
EN ISO 9001:2015
00.12.1118



CERTIFIED M.S.
EN ISO 14001:2015
00.02.1826



CERTIFIED M.S.
EN ISO 45001:2018
00.05.1176



Description

Beam FCB HD is a premium-quality, high-density fiber cement board designed for superior strength and durability. Manufactured using hydraulic pressing, it offers enhanced physical properties compared to standard fiber cement boards. Its composition mirrors that of Regular FCB but with significantly improved density, impact resistance, and moisture tolerance.

Applications

- Wall cladding
- Roof underlay
- Soffit and eaves lining
- False ceiling
- Partition walls
- Dry lining
- Ventilated or non-ventilated facades
- Exterior substrates and envelopes
- Floorings

Features

- High Density & Strength
- Environmentally friendly
- Moisture Resistance
- Fire-Resistant
- Impact Resistant
- Termite Resistant

Board Composition

FCB HD is manufactured using high-quality, eco-friendly materials, ensuring superior performance and sustainability.

Moisture resistance

Advanced impact resistance

Fire Resistance

Textured

Component Function

Portland Cement	Provides structural strength and durability
High-Purity Silica Sand	Improves flexural strength to the mix and fills small voids.
Reinforcing Pulp (Recycled)	Improves impact resistance and flexibility.
Water	Aids in curing and hydration of cement.
Additives	Increases resistance to fire and moisture.

Product Specifications

FCB HD is available in many sizes, thicknesses, and edge types.

Parameter	Specifications
Width	1200mm, 1220mm
Length	2400mm, 2440mm, 3050mm, 3200mm
Thickness Options	12mm, 15mm, 16mm, 18mm, 20mm

Surface finishing

Bare/smooth
Painted (water or oil base paint)
Textured
Patterned
Joint filling with Ccoat™ All Purpose Joint Compound

Edge types

Squared edge
Tapered edge
Beveled edge

Physical Properties

Thickness	mm	12	ASTM C 1186
Density	Kg/m ³	1600	ASTM C 1186
Flexural strength longitudinal direction	MPa	22.04	ASTM C 1186
Flexural strength transversal direction	MPa	12.19	ASTM C 1186
Moisture content	%	5.13	ASTM C 1186
Water absorption	%	23.16	ASTM C 1186
Linear change	%	0.04	ASTM C 1186
Direct screw withdrawal	N	492	ASTM D 1037
pH at 25oC	-	10.47	ASTM C 1185
Thermal conductivity	W/m.K	0.3274	ASTM C 518
Reaction to fire	-	Class A	ASTM E 84
Flame spread index (FSI)	-	0	ASTM E 84
Smoke development index (SDI)	-	5	ASTM E 84
Water tightness	No water drops seeping through the sheets.		ASTM C 1186

Recommendation

- Cut the board using an electrical saw.
- Use zinc self-tapping screws with a metal frame of less than 0.7mm to fix the boards.
- Use zinc self-drilling for a metal frame greater than 0.7mm to fix the boards.
- Vertical screw spacing for the first layer of FCB is 25cm, 50cm for the second, and 75cm for the third.

Storage and handling

- Avoid contact with moisture or high temperatures for prolonged periods of time.
- Store in a dry/ventilated area above ground level (not in direct contact with the ground).
- Cover the boards with plastic sheets.
- Avoid direct rain or sunlight.
- Avoid cracking or damaging the boards during installation.