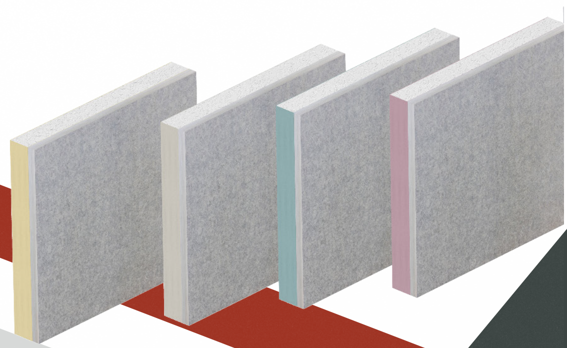
BEAM CONSOLIDATED Hyboard™



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

DESCRIPTION

Hyboard™ is a new and innovative hybrid panel introduced to bring the best of both worlds of performance and efficiency. It has been designed to face the most stringent and challenging construction demands at an effective cost.

Hyboard™ is comprised of cement overlayed to gypsum to form a robust and durable single piece composite panel. It is impact-resistant, moisture resistant, and fire-resistant, and it holds sound insulation properties. Depending on the type of gypsum board backing used, this panel can achieve any of the properties offered by the board while being protected on the surface by the fire and impact resistant fiber cement skin.

APPLICATIONS

Hyboard™ is mainly used in wall partitions and lining applications where high technical performance is required.

- External substrate
- Drywall partitioning
- Schools, universities
- Museums
- Offices, workplace
- Wall lining
- Cinemas, theatres
- Residential areas
- Airports
- Libraries
- Malls
- Hospitals

FEATURES

- Moisture resistant
- Low maintenance
- Abuse resistant
- Customizable combinations (Gboard® and Cboard®)
- Fire resistant
- Impact resistant
- Sound attenuation

Fire resistant

Moisture resistant

No cracking

Advanced impact resistance

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 Ccoat™ Multi Purpose Joint Compound	Tapered edge	ASTM C518	Thicknesses 12.5mm, (4.5 mm Cboard® & 8 mm Gboard®)

*Varying dimensions available upon request

PHYSICAL SPECIFICATIONS

SPECIFICATIONS	UNIT	VALUE	STANDARD
Thickness	mm	12.5	ASTM C 1396
Density	Kg/m^3	1110.79	ASTM C 1396
Weight per unit area	Kg/m^2	13.83	ASTM C 1396
Tolerance of length	mm	2399	ASTM C 1396
Tolerance of width	mm	1200	ASTM C 1396
Tolerance of thickness	mm	12.5	ASTM C 1396
Depth of taper	mm	1.1	ASTM C 1396
Width of taper	mm	43.7	ASTM C 1396
Squareness of edges	mm	1.2	ASTM C 1396
Core hardness	N	149	ASTM C 1396
Edges hardness	N	283	ASTM C 1396
Ends hardness	N	274	ASTM C 1396
Flexural breaking load long edge	N	813	ASTM C 1396
Flexural breaking load short edge	N	513	ASTM C 1396
Nail pull strength	N	615	ASTM C 1396
Bending radius	mm	2120	ASTM C 1396
Humidified deflection	mm	1.4	ASTM C 1396
Thermal conductivity	W/m.K	0.1896	ASTM C 518

RECOMMENDATION

- Cutting and scoring are completed from the front face of the panel.
- Use Zinc self-tapping screws with a metal frame lower than 0.7mm for board fixing.
- Use Zinc self-drilling screws with a metal frame greater than 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 Ccoat™ Multi Purpose Joint Compound to treat joints or for skim coating.

STORAGE AND HANDLING

- Avoid contact with moisture or temperatures higher than 50°C for prolonged periods of time.
- Store in a dry/ventilated area above ground level (not in direct contact with the ground).
- Cover the panels with plastic sheets.
- Avoid direct rain or sunlight.
- Avoid cracking or damaging the panels during installation.

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

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