

UNICEM

Fiber Cement Board

DATA SHEET 12 / 2023

UNICEM BOARDS ®
Fiber Cement Board (FCB)

UNICEM 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.

UNICEM 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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المتحدة للصناعات التعدينية
United Mining Industries

UNiCEM
United Fibre Cement Boards

Description

UNICEM 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

UNICEM 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

UNICEM 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

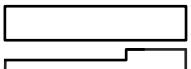
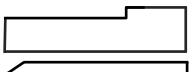
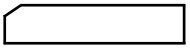
Characteristics

- 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 “more than normal UNICEM boards”
- Strong impact, Weather and water resistant, non-combustible with high durability ““more than normal UNICEM boards”
- Can be used in furniture industry instead of plywood
- Simple and easy to install
- Environmental friendly
- Limitless design options

Handling and installation

UNICEM 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

Appearance	Light gray color
Thickness (mm)	4.5 , 5 , 6 , 9 , 12 , 15 , 16 , 18
Tolerance (%)	± 6 %
Width (mm)	600 to 1220
Length (mm)	2000 to 4000
Tolerance (mm)	± 5
Board type	ASTM C1186 - type A grade 1 BS-EN-12467- class 1 category A
Edge Details	Square Edge  Recessed Edge  Beveled Edge 
Squareness (mm)	≤ 2
Density (kg/m^3)	≥ 1350
Asbestos Content	None
Formaldehyde (ppm)	0.002 ppm
Total VOC Content (mg/m^3)	≤ 0. 023
Moisture Content (%)	≤ 10
Moisture Movement (%)	≤ 0.05

Compressive strength (Mpa)	≥ 15
Module Of Rapture (Mpa)	(Wet: ≥ 7) (Equilibrium: ≥ 10)
Module Of Elasticity (Mpa)	5400 ± 50 “wet”
Adhesion/Lamina Bond Strength (Mpa)	≥ 2.1
Tensile Strength (Mpa)	≥ 2.3
Screw Withdrawal Strength (N)	≥ 1500
Nail Withdrawal Strength (N)	≥ 900
Thermal Conductivity (W/mK)	0.07 to 0.19 “at 50°” ASTM 517
Linear coefficient of thermal expansion (mm/mm/˚C)	7.4 x 10^{-6}
Reaction to Fire (ASTM E84)	A1- s1,d0
Fire Propagation Index	0
Surface Spread of flame	0
pH value	8.5 – 9.5
Mold Growth (ASTM D3273 %)	2.1 “ rating 9”
Water Absorption (%) “ASTM C1185”	≤ 35 after 48 hours water immersion

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