

Innovators of Fibre Cement Products

Tile Backer Board - CemBacker

CEMBLOC.

CemBacker Description.

Technical Datasheet May 2022

CEMBLOC's CemBacker is a high performing tile backer building board that's sole design purpose is to provide fireproof and waterproof protection for walls (12mm) and floors (6mm) in tiled rooms. Tested by market-leading tile adhesive companies ensuring the highest of standards along with largest manufacturer of ceramic and porcelain tiles in the world. The CemBacker offers high levels of moisture and fire resistance along with dimensional stability creating a superior all round tile back panel, which runs in it's own league when compared to traditional methods such as plasterboard and plywood which deteriorate and rot over time in wetrooms. It's resistant to water, is a non combustible, A1 fire rated solution in accordance with EN:13501-1:2019, UV stable and fully weatherproof withstanding all of nature's temperatures.

The CemBacker tile backer board is specially designed utilising a 6mm board for tiled floors, and a thicker 12mm version for tiled walls. This waterproof tile backing system inhibits any negative influence that water may have during and after the tiling process.

CemBacker is an impermeable to water, A1 fire rated tile backing solution, as well as being able to withstand freezing temperatures and resistant to UV lights. Designed for wet room applications.

Advantages Of Use.

- Protects sub-construction system.
- Dirt proof.
- Environment friendly.
- Does not contain any harmful substances to health.
- 100% Asbestos free.
- A1 Fire Class (In accordance with EN 13501-1:2019).
- Does not release toxic gas during the fire.
- Resistant to moisture and water.
- Resistant to the effects of sunlight.
- Resistant to seasonal changes.
- Easy assembly and modification procedures.
- Easy to cut.
- A finishing material, eliminates drying times of wet screed.
- Extends and protects the life of insulation material when-used in heat and sound insulation systems.

- Extremely high dimensional stability (<0.19%) when-compared to chipboard, gypsum and cement particle.
- Has feature of water repellent.
- It is odorless and does not release toxic gas.
- Resistant to impacts.
- Resistant to biological and chemical wastes.
- Easy to carry, light weight.
- Insect-proof, non-putrescible, no molding.
- Offers different solutions in all areas of building projects.
- Creates facades and surfaces compatible with fire-regulations.
- Can be used with insulating material of any desired-thickness.
- Can be used in fine details with smooth cutting surfaces.
- Very high impact resistance compared to gypsum based-boards.

Standard Dimensions.

Thickness

6mm (for floors), 12mm (for walls)

Dimensions

1200 x 600mm



Technical Specifications.

Water Impermeability	Pass - No formation of drops of water was found after being tested.
Thermal Conductivity	0.216 W/mK
Bending Strength (Modulus Of Rupture)	MOR Average of 6mm 16,70MPa, Equilibrium condition: MOR average of 6mm: 22,58 MPa, MOR Average of 12mm 16,48MPa, Equilibrium condition: MOR average of 12mm: 22,26 MPa,
Loading Capacity (As tested on 18mm variant)	7kN/m ² with maximum deflection at 15.95mm
Water Absorption	<29%
Wet Expansion Rate	0.19%
Heating Shrinkage Rate	0.18%
Density	1350 kg/m ³ (± 50kg)
Fire Propagation	Class "0" (<2) (BS 476-Part 6)
Fire Resistance	Class 1 (BS 476-Part 7)
Combustibility	Non-Combustible
Reaction To Fire	A1 (EN 13501-1:2019)
Acoustic Rating (DnTw)	54dB <i>*Based on both sides of the wall using CemBacker 12mm along with 50mm 90kg/m³ mineral fibre.</i>

Areas Of Use.

Tile backer boards for use behind ceramic tiles in wet-room areas.
Perfect for 'Ready Wall Panel' systems.
For use as a wall finish.
Ideal for use on pre-fabricated buildings.
As the finishing material by just painting.

In areas where sound insulation is required.
In thermal insulation systems.
Undercloak backer board of roof covering materials.
As backing material of cabinets or panels.
On walls, parapets and ceilings of balconies and terraces.
Soffit and fascia cladding.

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