

Technical card

Product Name: HiCem Flexo Fiber Cement Plate - GM CemBoard

Product Type: Construction Plate (Finishing and Construction Material)

Product Description

Fiber-cement plate is a building material made of cement, water, fiber cellulose and other ingredients that ensure its proper strength and resistance to external factors. The product is characterized by high dimensional stability, resistance to fire, moisture and the action of chemicals, which makes it the ideal material for use in different conditions of construction.

Technical parameters Cement-Fiber Board HiCem Flexo / GM CemBoard

Parameters	Declared/tested value
Dimensional parameters	
Width mm	600, 1200
Length mm	2400, 2600 i 3000
Thickness mm	4.5; 6; 8; 10; 12; 15 i 18
Physical parameters and mechanical characteristics	
Minimum apparent density kg/m ³	>1250 in accordance with the standard EN 12467
Linear shrinkage % in air-dry condition	0.19
Moisture content %	<12
Water absorption % by weight	ok. 38
Bending strength major axis MPa	14
Bending strength lateral axis MPa	8
Impact resistance J/m ²	>2100
Frontal screw extraction force N	>1800
Compressive strength MPa	31.5
Tensile strength MPa	0.53
Chemical characterization	
pH of the plate surface	8-9
Functional properties and aging resistance	
Reaction to fire	Class A1
Release of asbestos and other hazardous substances	Does not secrete.
Resistance to water penetration	Resistant, in accordance with EN 12467
Resistance to warm water	Resistant, 56 days, according to EN 12467
Resistance to bathing - drying	Resistant, 50 cycles, according to EN 12467

Resistance to thawing - freezing	Resistant, 100 cycles, according to EN 12467
Resistance to heating - sprinkler irrigation	Resistant, 50 cycles, according to EN 12467
Thermal properties and diffusivity	
Thermal conductivity coefficient	$\lambda = 0.18 \text{ W/mK}$
Water vapor diffusion resistance coefficient	$\mu \leq 30$
Fire characteristics	
Reaction to fire	Non-flammable, class A1.
Fire resistance of the partition in minutes	120 in accordance with BS – 476 – Parts 20 and 22
Fire Spread Index	0 according to ASTM E 84
Acoustic characteristics	
Sound insulation coefficient of the board	R = 32-34 dB according to ASTM E 90
Acoustic insulation coefficient of the partition	R = 48-52 dB according to ASTM E 90
Characteristics of resistance to biological corrosion and other environmental hazards	
Resistance to mold and fungi	Resistant
Resistance to ants and termites	Resistant
Resistance to bark beetles	Resistant
VOC emissions	Lack of
Asbestos content	Asbestos-free

The Benefits of Board:

1. Fire resistance – the material is non-combustible, which increases the safety of the building.
2. High mechanical strength – excellent resistance to mechanical damage. It is used in places with high traffic intensity.
3. Moisture resistance – the plate does not absorb moisture, which prevents the development of mushrooms and fungi.
4. Itetone – the material is characterized by its longevity and resistance to action atmospheric conditions.
5. It is made of natural materials and does not contain harmful substances and health.
6. Easy processing – the plate is easy to cut, wrap and assemble.
7. Universality of Applications – it can be used both inside and outside the buildings.

Application:

1. Facades can be used as an external wall finishing material.
2. Partition walls – ideal for walls requiring moisture and fire resistance
3. Roof covering boards – can be used as roofing elements in flat roof systems.
4. Prefabricated fire-resistant walls – used to build walls that protect against fire spreads.
5. Various industrial applications – fiber-cement boards are used in industrial facilities where high resistance is required
6. Mods of industrial applications – fibro-cement plates are used in industrial facilities where high resistance is required aggressive chemicals.

Assembly instructions:

1. Preparing the surface – Make sure the floor is clean, dry and dust-free. They should be properly prepared to ensure a good attachment to the plate.
2. Montage on the frame– Plates should be mounted on a metal or wooden row use the screws or nails.
3. Cut of plates – To cut plates, you should use a skyscraper with the appropriate plates. Suitable for cutting construction materials.
4. Montage on the elevation – Places must be mounted on the move in a way that allows. It provides water and adequate ventilation.

The Storage:

- Places must be stored in a dry and ventilated room, protected from the moisture.
- You should avoid storing the material directly on the ground to prevent absorption the moisture.

Comments:

- The product should be used in accordance with the applicable construction standards.
- Before installation, read the manufacturer's instructions and seek advice specialists in design and assembly.

Market introducer: Produced for GM Corp Sp. z o.o.

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