

AQUAPANEL®

Cement Board Outdoor

The ideal substrate for exterior walls in ventilated or water-managed (directly-applied) systems. Also for façade renovations and exterior ceiling applications.



AQUAPANEL® Cement Board Outdoor is a robust, non-combustible building panel made of aggregated Portland cement with coated glass fibre mesh embedded in back and front surfaces. It offers all the benefits of a dry panel system with the strength of brick and block.

The ends are cut square and edges are reinforced for extra strength (the EasyEdge®). The panel provides a solid base that withstands extreme weather conditions.

Physical properties

Length (mm)	1200/2400/1250/2500	900/2000/2400/2500/2800/3000
Width (mm)	900	1200
Depth (mm)	12.5	12.5
Min. bending radius for 900/1200 mm wide board	3	3
Min. bending radius for 300 mm wide strip	1	1
Weight (kg/m ²)	approx. 16	approx. 16
Dry bulk density (kg/m ³) according to EN 12647	approx. 1150	approx. 1150
Bending strength (MPa) according to EN 12647	9.6	9.6
Tensile strength perpendicular to the plane of the board (N/mm ²) according to EN 319	0.65	0.65
Shearing strength (N) according to EN 520	607	607
pH-value	12	12
Thermal conductivity (W/mK) according to EN ISO 10456	0.35	0.35
Thermal expansion (10 ⁻⁶ K)	7	7
Water vapour diffusion resistance \dot{E} (-) according to EN ISO 12572	66	66
Length variation 65% - 85% humidity (mm/m) according to EN 318	0.23	0.23
Thickness variation 65% - 85% humidity (%) according to EN 318	0.2	0.2
Building material class according to EN 13501	A1 non-combustible	A1 non-combustible

Characteristics

- Alternative to brick and block-work
- Drylining for faster progress
- Weather and water-resistant
- Strong, robust, impact-resistant and non-combustible
- Can be cut to shape using "score and snap" technique
- Simple and easy to install
- Can be bent when dry - up to 1 metre bending radius

Application

AQUAPANEL® Cement Board Outdoor is used in exterior applications for walls and ceilings as a directly-applied (water-managed) or ventilated system.

Furthermore, AQUAPANEL® Cement Board Outdoor can also serve as a substrate for ceramic and other linings as well as thermal insulation composite systems (ETICS).

European technical approval ETA-07/0173 has been issued for AQUAPANEL® Cement Board Outdoor.

The panel is also certified according to the criteria of the Institute for Building Biology in Rosenheim, Germany, report no. 3006-214.

Handling and installation

AQUAPANEL® Cement Board Outdoor is attached to a vertical stud frame. The substructure should be selected according to the static requirements. Depending on these requirements, it is possible to use single or double-layer planking or a combination with other Knauf construction boards. All necessary accessories are available in the AQUAPANEL® accessory range.

Installation time - wall:

approx. 15 min/m² (including screws, joint tape and joint filler).

Installation time - ceiling:

approx. 18 min/m² (including screws, joint tape and joint filler).

Stud spacing

Wall: 600 (625) mm horizontal installation

Ceiling: 300 (312.5) mm

Transportation and storage

Always carry boards upright using a board trolley or on a pallet using a forklift truck. When setting the boards down, make sure that corners and edges are not damaged.

The supporting surface must be able to carry the weight of the boards. A pallet of AQUAPANEL® Cement Board Outdoor applies a floor loading from about 900 to 1750 kg (as delivered).

AQUAPANEL® Cement Board Outdoor must be protected from the effects of moisture and weather before installation. Boards that have become damp must be dried on both sides before use.

Allow time for the boards to acclimatise to the ambient temperature and moisture conditions before installation. The material, ambient air and background temperature must not be below +5°C.

Method of delivery

Width (mm): 900	Width (mm): 1200
• Number of boards:	• Number of boards:
50 pieces per pallet (900 x 1200); (900 x 1250)	50 pieces per pallet (1200 x 900)
25 pieces per pallet (900 x 2400); (900 x 2500)	30 pieces per pallet (1200 x 2000); (1200 x 2400); (1200 x 2500); (1200 x 2800); (1200 x 3000)
• m ² / Pallet:	• m ² / Pallet:
900 x 1200, 900 x 2400: 54 m ² per pallet	1200 x 900: 54 m ² per pallet
900 x 1250, 900 x 2500: 56.25 m ² per pallet	1200 x 2000: 72 m ² per pallet
	1200 x 2400: 86.4 m ² per pallet
	1200 x 2500: 90 m ² per pallet
	1200 x 2800: 100.8 m ² per pallet
	1200 x 3000: 108 m ² per pallet
Item codes:	Item codes:
63117 (900 x 1200)	103615 (1200 x 900)
50111 (900 x 2400)	123801 (1200 x 2000)
83527 (900 x 1250)	103616 (1200 x 2400)
49371 (900 x 2500)	103617 (1200 x 2500)
	103618 (1200 x 2800)
	115458 (1200 x 3000)

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