

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.

Description

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

Parameter	Units
Length (mm)	2,440
Width (mm)	1,220
Thickness (mm)	12.5 ± 0.5
Weight (kg/m²)	Approx. 16
Dry bulk density (kg/m³)	1,200 ± 175
Bending strength (MPa) according to EN 12467	≥7
pH-value	12
Thermal conductivity (W/mK)	0.381
Water vapour diffusion coefficient μ (-)	32
Min. bending radius (m)	3
Min. bending radius for 300 mm wide strip (m)	1
Fire Classification according to BS 476-4:1970	Non-combustible



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).

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 meter bending radius



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 1,750 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 acclimatize 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

Thickness (mm)	Width (mm) x Length (mm)	Boards/Pallet	Surface/Pallet	Weight / Pallet	Item Code
12.5	1,220 x 2,440	35 pieces	104.2 m ²	1,667.0 kg	890068

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.

Other proprietary jointing and render systems may be used in accordance with the respective manufacturer's installation guidelines, provided they are compatible with AQUAPANEL® Cement Board Outdoor and comply with applicable codes and standards.

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 mm horizontal installation (according to the static requirements, smaller distances are necessary)
- › Ceiling: 300 mm

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AQUAPANEL®

AQUAPANEL® is a technologically advanced building system. Because it's a system, it involves clear step-by-step process from design idea to project completion. AQUAPANEL® cement board panels, accessories and services work in unison – you can be certain that your project will all come together as planned. AQUAPANEL® is a registered trademark.

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