



AQUAPANEL®

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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

Physical properties

Length (mm)	1200/2400/1250/2500	900/2000/2400/2500/2800/3000	900/2000/2500
Width (mm)	900	1200	1250
Depth (mm)	12.5	12.5	12.5
Min. bending radius for 900/1200/1250 mm wide board	3	3	3
Min. bending radius for 300 mm wide strip	1	1	1
Weight (kg/m ²)	approx. 16	approx. 16	approx. 16
Dry bulk density (kg/m ³) according to EN 12467	approx. 1150	approx. 1150	approx. 1150
Bending strength (MPa) according to EN 12467	≥ 7	≥ 7	≥ 7
Tensile strength perpendicular to the plane of the board (N/mm ²) according to EN 319	0.65	0.65	0.65
Shearing strength (N) according to EN 520	607	607	607
pH-value	12	12	12
Thermal conductivity (W/mK) according to EN ISO 10456	0.35	0.35	0.35
Thermal expansion (10 ⁻⁶ K ⁻¹)	7	7	7
Water vapour diffusion coefficient μ (-) according to EN ISO 12572	66	66	66
Length variation 65% - 85% humidity (mm/m) according to EN 318	0.23	0.23	0.23
Thickness variation 65% - 85% humidity (%) according to EN 318	0.2	0.2	0.2
Building material class according to EN 13501	A1 non-combustible	A1 non-combustible	A1 non-combustible

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.

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. 3016-848.

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

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 x Length (mm)
Boards/pallet	50 pieces	900 x 1200
		900 x 1250
	30 pieces	900 x 2400
		900 x 2500
Surface/pallet	54 m ²	900 x 1200
	56.25 m ²	900 x 1250
	64.8 m ²	900 x 2400
	67.5 m ²	900 x 2500
Item code:	63117	900 x 1200
	83527	900 x 1250
	457318	900 x 2400
	457319	900 x 2500

		Width (mm) 1200 x Length (mm)
Boards/pallet	50 pieces	1200 x 900
	30 pieces	1200 x 2000
		1200 x 2400
		1200 x 2500
		1200 x 2800
		1200 x 3000
Surface/pallet	54 m ²	1200 x 900
	72 m ²	1200 x 2000
	86.4 m ²	1200 x 2400
	90 m ²	1200 x 2500
	100.8 m ²	1200 x 2800
	108 m ²	1200 x 3000
Item code:	103615	1200 x 900
	123801	1200 x 2000
	103616	1200 x 2400
	103617	1200 x 2500
	103618	1200 x 2800
	115458	1200 x 3000

		Width (mm) 1250 x Length (mm)
Boards/pallet	50 pieces	1250 x 900
	30 pieces	1250 x 2000
		1200 x 2500
Surface/pallet	56.25 m ²	1250 x 900
	75 m ²	1250 x 2000
	93.75 m ²	1250 x 2500
Item code:	291667	1250 x 900
	291669	1250 x 2000
	291671	1250 x 2500

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▶ www.AQUAPANEL.com

@ aquapanel.info@knauf.com

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.

Knauf Aquapanel GmbH & Co. KG, Zur Helle 11, 58638 Iserlohn, Germany