

AQUAPANEL® Cement Board Outdoor

Technical Data Sheet 12/2023



AQUAPANEL® Cement Board Outdoor

Cement based board with 100% water resistance

Description

AQUAPANEL® Cement Board Outdoor is a 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.

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. 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.

Standards referred to

ETA - 07/0173

Fields of Application

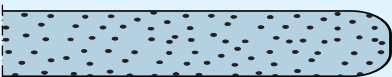

For exterior applications:

- Exterior walls
- Wall claddings
- Suspended ceilings under canopy

Properties

- Weather-resistant
- 100% water resistant
- Strong, robust, impact-resistant
- Chip and cellulose free
- A1 class non-combustible material
- Mould and fungus resistant
- Can be cut to shape using "score and snap" technique
- Can be bent when dry - up to 1 metre bending radius
- Simple and easy to install

Technical Data

Description	Unit	12,5 mm	Standard
Reaction to fire	class	A1	EN 13501
Weight	kg/m ²	appx. 16	-
Long edges	-	Round edges (EasyEdge™) 	-
Front edges	-	Cut edges 	-
pH value	pH	12	-
Min. bending radius (full board)	mm	r ≥ 3000	-
Min. bending radius (300 mm wide strip)	mm	r ≥ 1000	-
Thermal conductivity λ	W/(m·K)	0,35	EN ISO 10456
Water vapour diffusion coefficient	μ	66	EN ISO 12572
Thickness variation (65% - 85% humidity)	%	0,2	EN 318
Length variation (65% - 85% humidity)	mm/m	0,23	EN 318
Bending strength	MPa	≥ 7	EN 12467
Shearing strength	N	607	EN 520
Tensile strength perpendicular to the plane of the board	N/mm ²	0,65	EN 319
Thermal expansion	(10 ⁻⁶ K ⁻¹)	7	-

Product Range

Description	Width (mm)	Length (mm)	Weight (kg/m ²)	Packaging (pcs./pallet)	Material Number
AQUAPANEL® Cement Board Outdoor 12,5 mm	1200	2400	approx. 16	30	129866
	1200	2500	approx. 16	30	103617
	1200	2800	approx. 16	30	103618

System Performance Values

Performance values as sound insulation, fire resistance etc. may differ acc. to the drywall system to be applied. Please check the performance values of the drywall systems;

[Knauf Technical Website](#)

[Document Center](#)

Note

Heights of the exterior walls should be determined depending on the wind load. For suitable construction details and stud spacings please contact Knauf Technical Department

Application

Application should be done acc. to the Knauf Technical Brochures of the respective drywall system.

For further information;

[AQUAPANEL® Exterior System Catalog](#)

[AQUAPANEL® Exterior System Brochure](#)

[AQUAPANEL® Exterior Application Catalog](#)