



# AQUAPANEL® Rooftop

Technical Data Sheet 12/2023

## AQUAPANEL® Rooftop

Durable and strong board in low-slope commercial roofing

### Product Description

AQUAPANEL® Cement Board Rooftop is a lightweight cement board that is 100% water-resistant made of aggregated Portland cement with coated glass fibre mesh embedded in back and front surfaces. AQUAPANEL® Cement Board Rooftop is moisture and mold resistant, noncombustible and robust, adding structural strength and durability to the entire roofing system. It is available in two different thicknesses (6 mm and 12.5 mm) and various dimensions. 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.

### 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 Rooftop weighs between 900 and 1100 kg. AQUAPANEL® Cement Board Rooftop 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

EN 12467, Category D, Class 2

### Fields and Applications

AQUAPANEL® Cement Board Rooftop is used in commercial low-slope roofing systems. It enhances roof system performance in several ways and functions:

- As a cover board installed between the insulation and the waterproofing layer:
  - Protects roof insulation underneath
  - Reduces stress on the membrane
  - Adds structural strength to the entire roof system
  - Provides a robust basis for accessible and ballasted roofs
- As a substrate board installed directly onto the steel deck acting as:
  - Substrate for the vapor barrier
  - Basis for the roofing constructors to work on

### Properties

- Recommended for accessible and flat roofs
- Strong, robust, impact-resistant and durable
- High compressive strength
- Non-combustible (class A1)
- Weather and 100% water-resistant
- Can be cut to shape using "score and snap" technique
- Low cost compared to lifetime of the board
- Longer life-cycle
- Enhanced durability against wind load
- Clean and easy to installation

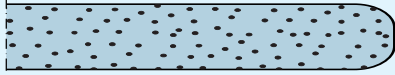

### Application

The usage of AQUAPANEL® Cement Board Rooftop as a component in low-slope roofing systems is the responsibility of the design professional. Consult a system supplier for recommendations on all applications.

AQUAPANEL® Cement Board Rooftop is attached to the surrounding layers inside the roof system. It can be mechanically fastened or adhered. During the planning phase the wind loads have to be considered.

AQUAPANEL® Cement Board Rooftop is suited for a variety of rigid roof insulation and membranes like single-ply, modified bitumen or liquid membranes. Consult manufacturers for specific instructions on how to use and install their products with AQUAPANEL® Cement Board Rooftop..

### Technical Data

Description	Unit	6 mm	12,5 mm	Standard
Reaction to fire	class	A1		EN 13501
Long edges	-	Rounded edge (EasyEdge™) 		-
Front edges	-	Straight edge 		-
Bending strength	MPa	≥ 7	≥ 7	EN 12467
Thermal conductivity λ	W/(m·K)	0.34	0.35	EN ISO 10456
Thermal expansion	10 <sup>-6</sup> K <sup>-1</sup>	7	7	-
Water vapour diffusion coefficient	μ (-)	48	66	EN ISO 12572
Length variation 65% - 85% humidity	mm/m	0.38	0.23	EN 318
Mold resistance	-	No mold detected (IBR certified)		-
pH value	pH	12	12	-

### Product Range

Description	Width (mm)	Length (mm)	Surface area/ pallet (m <sup>2</sup> )	Weight (kg/m <sup>2</sup> )	Packaging (pcs./pallet)	Material Number
AQUAPANEL® Rooftop 6 mm	1200	900	108	approx. 8,5	100	600854
	1200	2400	151.2	approx. 8,5	70	600857
AQUAPANEL® Rooftop 12,5 mm	1200	2400	54	approx. 16,5	50	600848

### 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;

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### Application

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

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