

AQUAPANEL® Cement Board Rooftop

The ideal, high-performing board in low-slope commercial roofing.

Adds structural strength and durability to your roofing investment.

Description

AQUAPANEL® Cement Board Rooftop is a lightweight cement board made of aggregated Portland cement with coated glass fibre mesh embedded in back and front surfaces.

AQUAPANEL® Cement Board Rooftop is water and mould resistant, noncombustible and robust, adding structural strength and durability to the entire roofing system. It meets the requirements of category D, class 2 in compliance with EN 12467.

It is available in two different thicknesses (6 mm and 12.5 mm).

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	Units
Length (mm)	2,400	2,400
Width (mm)	1,200	1,200
Thickness (mm)	6	12.5
Weight (kg/m²)	Approx. 8.5	Approx. 16.5
Dry bulk density (kg/m³) according to EN 12467	1,250	1,150
Bending strength (MPa) according to EN 12467	≥7	≥7
Thermal conductivity (W/mK) according to EN ISO 10456	0.34	0.35
Thermal expansion (10 ⁻⁶ K ⁻¹)	7	7
Water vapour diffusion coefficient μ (-) according to EN ISO 12572	48	66
Length variation 65% - 85% humidity (mm/m) according to EN 318	0.38	0.23
Mould resistance	No growth (IBR certified)	No growth (IBR certified)
pH-value	12	12
Building material class according to EN 13501	A1 non-combustible	A1 non-combustible



Application

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

Characteristics

- Recommended for accessible roofs
- Strong, robust, impact-resistant and durable
- High compressive strength
- Weather and water-resistant
- Non-combustible (class A1)
- Can be cut to shape using “score and snap” technique
- Simple and easy to install
- Lightest cement board for roof applications (6mm)

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 6 mm (12.5 mm) applies a floor loading from about 950 (900) to 1,750 (1,450) kg (as delivered).

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.



Handling and installation

The usage of AQUAPANEL® Cement Board Rooftop as a component in lowslope 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.

Method of delivery

Thickness (mm)	Width (mm) x Length (mm)	Boards/Pallet	Surface/Pallet	Weight / Pallet	Item Code
6	1,200 x 2,400	70 pieces	201.6 m ²	2,620.8 kg	600857
12.5	1,200 x 2,400	30 pieces	86.4 m ²	1,382.4 kg	600848

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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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