

KNAUF

***AQUAPANEL®
EXTERIOR
SYSTEMS***

Knauf Exterior Solutions with AQUAPANEL® Technology for Malaysia

AQUAPANEL®

Build on us.

System introduction

AQUAPANEL® Exterior Systems are high-performance, economical and sustainable solutions for drylining style construction of exterior walls, claddings and ceilings.

AQUAPANEL® Exterior Wall comes in two basic types: drywall, or as a rear-ventilated rainscreen facade. It therefore offers an extremely flexible and adaptable solution, which can accommodate an impressive range of designs, helping to turn vision into reality.

From external soffits, underpasses or open and underground car parks to exterior ceilings, our solution is engineered to withstand the most challenging wet conditions.

Outstanding protection against high humidity and moisture

The systems are the perfect solutions for exterior walls, claddings, and ceilings exposed to moisture, wind loading, and coastal environments. The components are designed and tested to achieve the highest performance in construction.

AQUAPANEL® Cement Board Outdoor is water-resistant and made of inorganic materials, which prevents mildew from forming and spreading.

The steel framing system, designed to support AQUAPANEL® Cement Board Outdoor is supplied by Knauf Metal, with components coated with AZ150, making it suitable for a variety of exterior systems (refer to Knauf Metal for details).

Options for external finishes

Different external renders can be specified as a finish coat, offering options for texture and colors. The system can also accommodate other materials, such as tiles.

Complete Knauf engineered solution backed by industry experts

Our team of engineers and specification managers will provide you with support throughout the project; from conceptual design, to reviewing architectural drawings and site support to ensure optimum performance in design and construction.



AQUAPANEL® Exterior Systems deliver creativity and certainty from seaside and hospitality projects through to commercial and residential buildings.

Markor Cave | Beijing, China

EXTERIOR WALL, CLADDINGS AND CEILINGS

Benefits

- Simple installation
- Easy to cut, score, and snap
- No pre-drilling for fasteners
- Resistant to moisture and driving rain
- Mold and mildew-resistant
- Dimensionally stable, robust and durable
- Non-combustible (A1): complies with European standards
- Fire Safety for AQUAPANEL® External Cladding, Tested to BS8414
- Creative design opportunities
 - › Options for the creation of curved exterior walls, claddings and ceilings
 - › Spectacular seamless surfaces, thanks to expansion joints that are only needed every 15 m to enable a 225 m² closed area without a visible joint*
- Large choice of colours, textures, and finishes with different external render systems

With Knauf AQUAPANEL® Exterior Systems, the exterior walls, claddings and ceilings are optimally protected against various types of weather effects, regardless of their location.

*A control/movement joint must be installed if there is a control/movement joint in the structure underneath.

Parameter	Units
Length (mm)	2,440
Width (mm)	1,220
Thickness (mm)	12.5 ± 0.5
Weight (kg/m ²)	Approx. 16
Dry bulk density (kg/m ³)	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



Eagle in Flight | Tirana, Albania

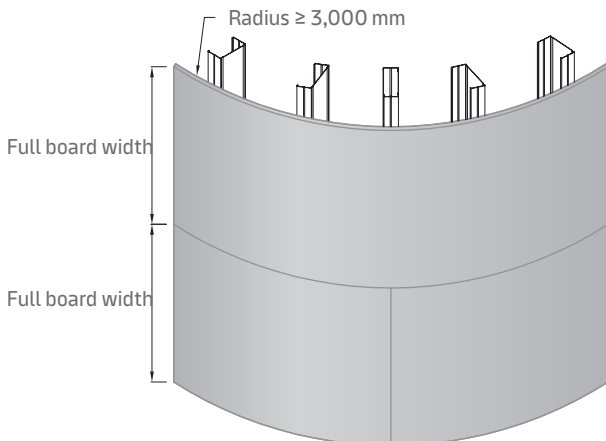
New design possibilities for curved walls

With a bending radius of 3 metres (full board) and 1 m (300 mm strips), AQUAPANEL® Cement Board Outdoor allows designers to introduce a variety of curved shapes and creative designs, including domes and arches. Moreover, by using double studs, it's possible to create different interiors and exteriors: for example, a wall that's concave on the outside, and convex on the inside.

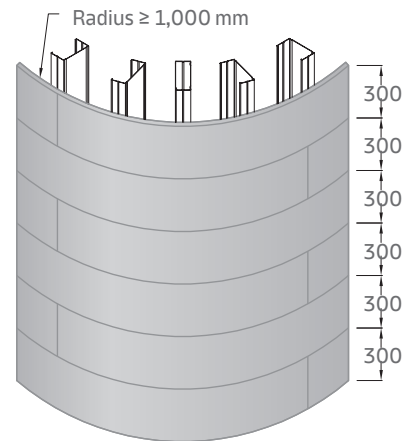


Lingang Warehouse | Shanghai, China

Arrangement of AQUAPANEL® Cement Board Outdoor with different radius



Assembly with full board size panels for radius $\geq 3,000$ mm



Assembly with 300 mm width panels for radius $\geq 1,000$ mm

DEDICATED SYSTEM SOLUTIONS

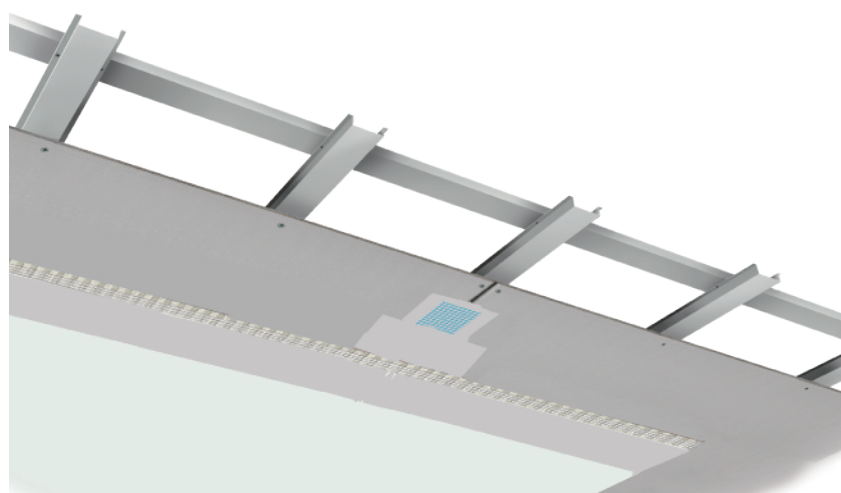
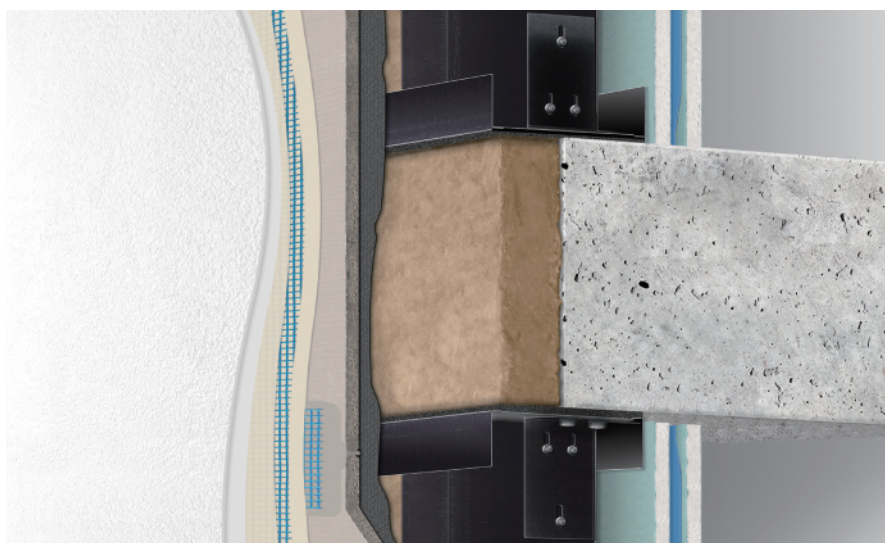


AQUAPANEL® Exterior Wall – rear-ventilated rainscreen facade & external cladding

With rainscreen facades and external claddings for use above solid substructures, such as brick or concrete, thermal insulation is separated from the weather protection materials ensuring a constant flow of air in the ventilated space to remove moisture from the building and to optimise indoor climate. Even if the facade is damaged, the insulation remains intact.

AQUAPANEL® Exterior Wall – drywall solution

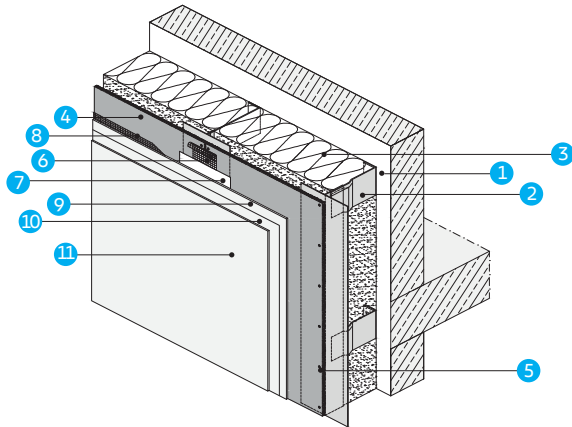
Drywall systems are available as single stud solutions with a variety of creative design options. And although it is most commonly used in skeleton constructions comprising reinforced concrete, drywall is also suitable for timber or lightweight steel-frame constructions.



AQUAPANEL® Exterior Ceiling

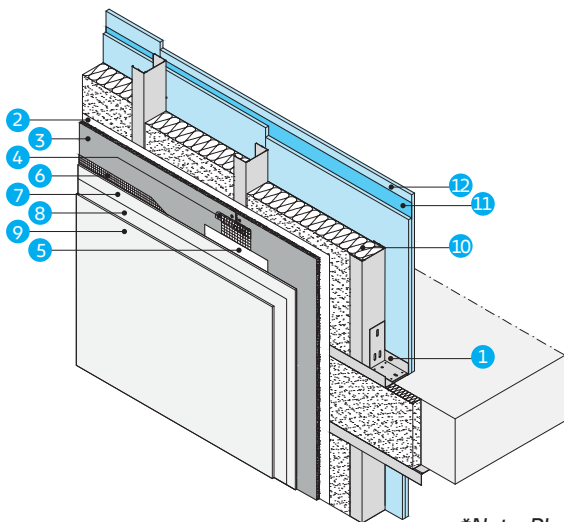
Ideal drylining solution for exterior ceilings, such as soffits, undersides of balconies, underpasses, and underground car parks with proven resistance to moisture or mildew forming and spreading. For greater safety and the highest standards in design, construction, cost-effectiveness, and durability.

WL132C.1 Rear-ventilated rainscreen facade & external cladding



- 1 Optional Thermal separation element
- 2 Knauf Metal Cladding System
- 3 Insulation board according to local needs
- 4 AQUAPANEL® Cement Board Outdoor
- 5 AQUAPANEL® Maxi Screw
- 6 AQUAPANEL® Joint Tape (10 cm)
- 7 AQUAPANEL® Joint Filler – grey
- 8 AQUAPANEL® Reinforcing Mesh
- 9 AQUAPANEL® Exterior Basecoat
- 10 AQUAPANEL® Basecoat Primer
- 11 Render finish (e.g. AQUAPANEL® Exterior Mineral Finish – white)

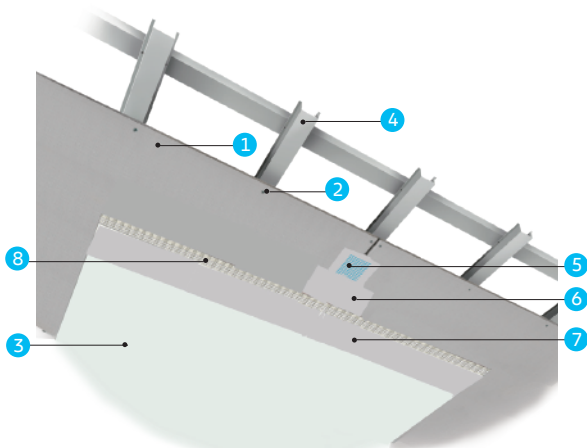
WM111C.1 Single stud exterior wall



- 1 Knauf Metal Exterior Wall System
- 2 Vapour Barrier SD $\geq 50\text{m}$ according to the EN 13984*
- 3 AQUAPANEL® Cement Board Outdoor
- 4 AQUAPANEL® Joint Tape (10 cm)
- 5 AQUAPANEL® Joint Filler – grey
- 6 AQUAPANEL® Reinforcing Mesh
- 7 AQUAPANEL® Exterior Basecoat
- 8 AQUAPANEL® Basecoat Primer
- 9 Render finish (e.g. AQUAPANEL® Exterior Mineral Finish – white)
- 10 Insulation board (thickness: 100 mm) according to local needs
- 11 Vapour Barrier: Knauf Insulation LDS 10 silk or similar (SD 5–10m according to EN 13984)*
- 12 Knauf Gypsum board

**Note: Please be advised that under the local climate condition the vapour barrier specifications at the exterior and interior side of the wall to prevent accumulation of moisture within the wall construction could vary. Location and type of vapour barrier to be determined by the architect and a building physics expert.*

D 282.1 EXT. SOUTHEAST ASIA Exterior ceiling



- 1 AQUAPANEL® Cement Board Outdoor
- 2 AQUAPANEL® Maxi Screws
- 3 Paint or render system by others
- 4 Knauf Metal exterior ceiling system
- 5 AQUAPANEL® Joint Tape (10 cm)
- 6 AQUAPANEL® Joint Filler – grey
- 7 AQUAPANEL® Exterior Basecoat
- 8 AQUAPANEL® Reinforcing Mesh

EXTERIOR PROJECTS



Lingang Warehouse
Shanghai, China



Markor Cave
Beijing, China



Mercedes Showroom
Ypres, Belgium



Starbucks
Daecheon, Republic of Korea



Joali
Maldives



Hunan Broadcasting System Program Production Center
China



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