



# AQUAPANEL® Cement Board Floor Tile Underlay

The ideal thin substrate for tiles on wooden subfloors

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**AQUAPANEL®**

## Application

The AQUAPANEL® Cement Board Floor Tile Underlay is a light, highly stable, cementitious dry floor panel which provides the ideal thin substrate for all kinds of tiles on wooden subfloors. It is particularly suitable for applications with a very low floor height because its 6 mm thickness ensures an even transition between tiled floor and carpeting and makes removal of thresholds unnecessary.

AQUAPANEL® Cement Board Floor Tile Underlay panels are made of aggregated Portland cement with coated glass fibre mesh embedded in the back and front. The ends are cut square and both edges are reinforced for extra strength (the EasyEdge®). The panels are 100% water-resistant and resistant to mould and mildew.

AQUAPANEL® Cement Board Floor Tile Underlay can be used as a tile backer on wooden subfloors upon which ceramic tiles or natural stone will be laid. It is easy to work with and ideal for quick and simple floor refurbishing where a very thin floor construction is required.

## Physical properties

Length (mm)	1200
Width (mm)	900
Thickness (mm)	6
Weight per unit area (kg/m <sup>2</sup> )	approx. 8.5
Dry density (kg/m <sup>3</sup> )	approx. 1350
Building material class according to EN 13501	A1

## Characteristics

- Best solution for very low floor heights with only 6 mm board thickness
- Suitable for all kinds of tiles including ceramic, mosaic and natural stone
- Extremely light material, easy to handle
- Quick and simple floor construction - easy to score and snap, no pre-drilling required
- Solid Portland cement substrate
- EasyEdge® – the particularly shock-proof edge on both sides
- 100% water-resistant
- Resistant to mould and mildew

## System components

AQUAPANEL® Cement Board Floor Tile Underlay is used together with the following system accessories:

- AQUAPANEL® Maxi Screw SN 25; consumption 9 screws/board
- AQUAPANEL® Tape (10 cm) approx. 2.1 m/m<sup>2</sup>
- AQUAPANEL® Board Primer; consumption approx. 90-110g/m<sup>2</sup>

## Background

The wooden subfloor should be OSB 3 (acc. EN 300), chipboard (category P5 acc. EN 312) or plywood (acc. EN 636), all with tongue & groove or back-blocked at the unsupported edges. The surface must be even and the deflection of the wooden subfloor may not exceed  $l/400$  of the span. The existing wooden framework for the subfloor must be appropriate for the static requirement of the construction. The bearing wooden joists should be designed for a deflection limit of  $l/300$  for the span.

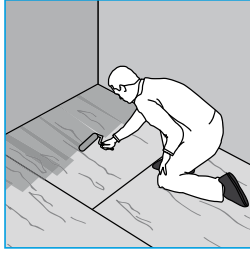
## Application table with minimum subfloor thickness

	Minimum subfloor thickness depending on centre distance of wooden joists		
	40 cm	60 cm	80 cm
OSB 3 acc. to EN 300	18 mm	18 mm	22 mm
Chipboard category P5 acc. to EN 312	19 mm	22 mm	

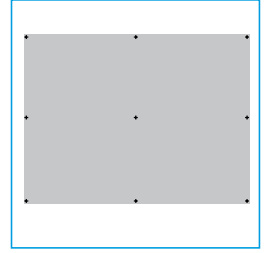
## Handling and installation

### Prime subfloor

Prime the subfloor with AQUAPANEL® Board Primer (dilution 1:1). Allow half a day for drying.



Nine screws per board evenly distributed with a minimum distance from the board edge of 15mm.



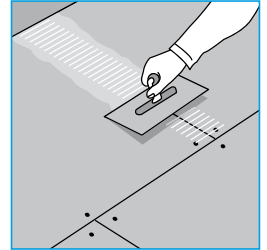
### Apply flexible tile adhesive

Apply a flexible tile adhesive (class C2/S1 acc. EN 12004/12002 is recommended).



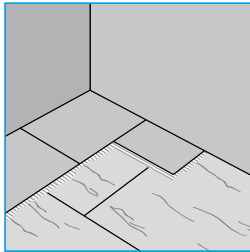
### Joint treatment

Fill all the joints with flexible tile adhesive (class C2/S1 acc. EN 12004/ 12002). Then embed AQUAPANEL® Tape (10 cm). Allow the tile adhesive in the joints to dry.



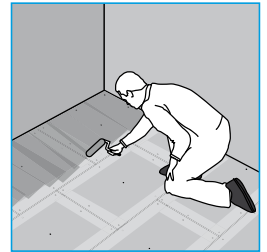
### Lay the first panel

The first AQUAPANEL® Cement Board Floor Tile Underlay panel is fitted in the corner of the room. Make sure that the panel is laid in such a way that there is a staggered joint (minimum 200 mm staggering) between the wooden subfloor and panel. The two joints should not coincide.



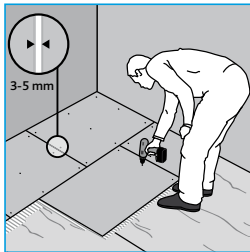
### Prime the surface

Apply AQUAPANEL® Board Primer (dilution 1:2) over the entire surface of the AQUAPANEL® Cement Board Floor Tile Underlay. After the primer has dried (approx. 12 hours, depending on the climate conditions) it is possible to continue with the next stage.



### Screw the panel

Screw the panel to the subfloor immediately after laying by using AQUAPANEL® Maxi Screws SN 25.



### Lay tiles

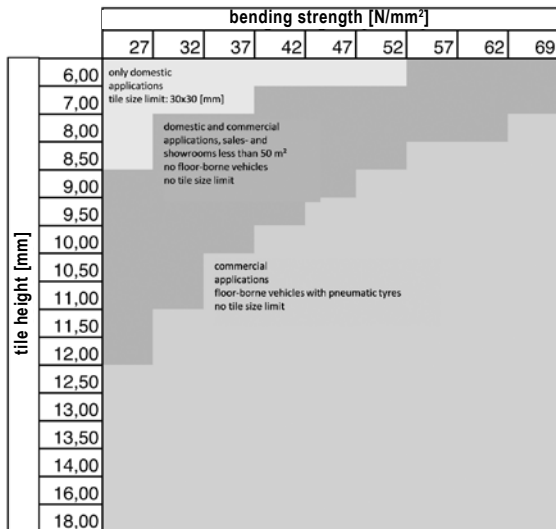
Glue tiles onto the primed surface of the AQUAPANEL® Cement Board Floor Tile Underlay panel using flexible tile adhesive (class C2/S1 acc. EN 12004/12002). The maximum side length for tiles is 33x33 cm\*. Please refer to the manufacturer's data and further guidelines of the tiling trade as appropriate.



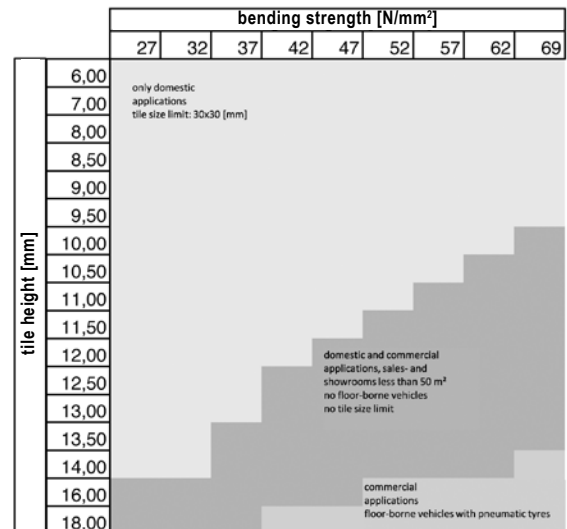
When laying subsequent panels, make sure there is a planned gap of 3-5 mm between the panels. Always start in the utmost corner across from the door to avoid stepping on the boards during processing. Avoid cross joints.

\* For larger and non-square formats tiles should be chosen according to tile height and bending strength

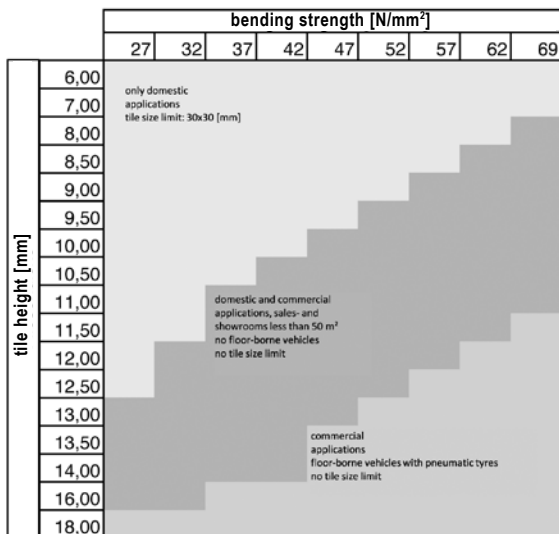
tile proportion 1:1



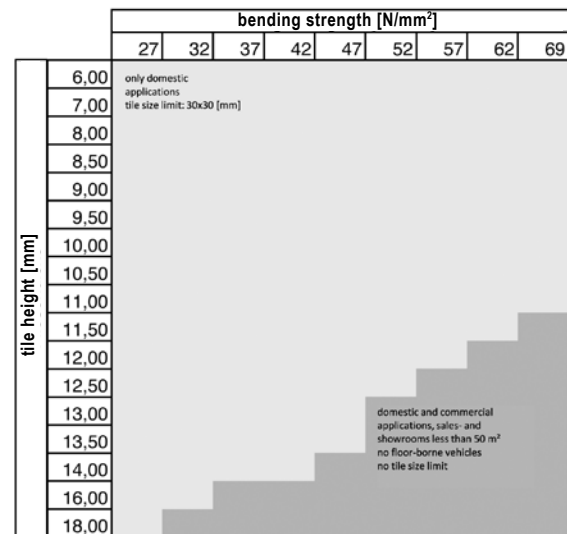
tile proportion 1:3



tile proportion 1:2



tile proportion 1:4



## Method of delivery

Number of boards	50 pieces per pallet
Standard dimensions WxH*	1200 x 900 mm: 54 m <sup>2</sup>

\* Other sizes on request.

## Item codes

AQUAPANEL® Cement Board Floor Tile Underlay: 111764  
 AQUAPANEL® Maxi Screw SN25: 87319  
 AQUAPANEL® Board Primer: 49279 (15 kg/pail)/73789 (2.5 kg/pail)  
 AQUAPANEL® Tape (10 cm): 49373

## AQUAPANEL®

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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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