AQUAPANEL® Cement Board
Floor Tile Underlay

The ideal thin substrate for tiles on wooden subfloors
Physical properties

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (mm)</td>
<td>1200</td>
</tr>
<tr>
<td>Width (mm)</td>
<td>900</td>
</tr>
<tr>
<td>Thickness (mm)</td>
<td>6</td>
</tr>
<tr>
<td>Weight per unit area (kg/m²)</td>
<td>approx. 8.5</td>
</tr>
<tr>
<td>Dry density (kg/m³)</td>
<td>approx. 1250</td>
</tr>
<tr>
<td>Building material class according to EN 13501</td>
<td>A1</td>
</tr>
</tbody>
</table>

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 m²
- AQUAPANEL® Board Primer; consumption approx. 90-110g/m²

Application table with minimum subfloor thickness

<table>
<thead>
<tr>
<th>Subfloor Material</th>
<th>Minimum subfloor thickness depending on centre distance of wooden joists</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSB 3 acc. to EN 300</td>
<td>40 cm 60 cm 80 cm</td>
</tr>
<tr>
<td>Chipboard category P5 acc. to EN 312</td>
<td>19 mm 22 mm</td>
</tr>
</tbody>
</table>

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

Handling and installation

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

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

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.

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

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.

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

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.

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.

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 30 x 30 cm.* Please refer to the manufacturer’s data and further guidelines of the tiling trade as appropriate.
For larger and non-square formats tiles should be chosen according to tile height and bending strength.

### Method of delivery

<table>
<thead>
<tr>
<th>Number of boards</th>
<th>50 pieces per pallet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard dimensions WxL*</td>
<td>900 x 1200 mm: 54 m²</td>
</tr>
</tbody>
</table>

* Other sizes on request.

### Item codes

- AQUAPANEL® Cement Board Floor Tile Underlay: 240211
- AQUAPANEL® Maxi Screw SN25: 87319
- AQUAPANEL® Board Primer: 49279 (15 kg/pail)/73789 (2.5 kg/pail)
- AQUAPANEL® Tape (10 cm): 429471 (50 m)
- AQUAPANEL® Tape (10 cm): 465546 (20 m)

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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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