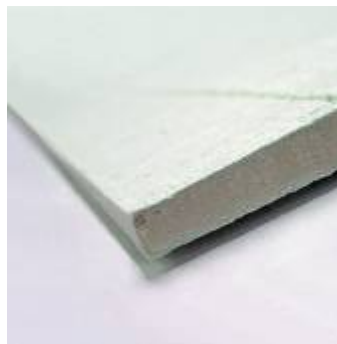


## Hydropanel

### Product Information Sheet<sup>1</sup>



#### 1 Product composition

HYDROPANEL sheets consist of the following:

- Portland cement
- selected mineral fillers providing extra high dimensional stability and low hygric movement
- organic reinforcing fibres (no asbestos)
- functional additives

#### 2 Production method

HYDROPANEL sheets are manufactured on a Hatschek machine and are autoclaved. The following mechanical operations can be performed depending on the application:

- rectify
- calibrate thickness by sanding
- bevel the longitudinal edges
- water repelling by hydrofobation with silane
- colour the surface

#### 3 Standard dimensions, weight and tolerances

	HYDROPANEL bevelled	
Main application	Interior tiling	
Hatschek press	yes	
Double press	no	
Autoclave	yes	
Rectified	yes	
Calibrated	yes	
Bevelled	yes	
Water repelling	no	
Colour surface	no	
Board colour	beige	
Thickness (mm)	9	12
Weight (kg/m <sup>2</sup> )	11	14,6
Tolerances	Complies with EN 12467 (level I)	
~ Thickness	± 0,5 mm	
~ Length / Width	± 3,0 mm	
~ Squareness	± 1,0 mm/m	
Dimensions (mm)	Thickness:	

<sup>1</sup> This product information sheet replaces any previous editions. Wanit Fulgurit GmbH reserves the right to amend this information sheet without prior notice. Readers should always satisfy themselves that they are referring to the most recent version of this document.

3,000 x 1,250	9 and 12 mm
2,600 x 1,250	9 and 12 mm
2,600 x 625	only in 12 mm

#### 4 Technical properties (average values)

The CE-mark is based on the European standard EN 12467 'Fibre-cement flat sheets', which describes classification and most testing methods.

<i>A. Testing according to ISO quality management system</i>			
Density	Dry	EN 12467	1.180 kg/m <sup>3</sup>
Bending strength	Ambient, $\perp$	EN 12467	24,0 N/mm <sup>2</sup>
	Ambient, //	EN 12467	17,0 N/mm <sup>2</sup>
Modulus of elasticity	Ambient, $\perp$	EN 12467	13.000 N/mm <sup>2</sup>
	Ambient, //	EN 12467	11.000 N/mm <sup>2</sup>
Hygrical movement	0-100%, mean		1,20 mm/m
Porosity	0-100%		40 %
<i>B. Type test or best estimate</i>			
Impermeability test		EN 12467	Ok
Warm water test		EN 12467	Ok
Soak dry test		EN 12467	Ok
Freeze thaw test		EN 12467	Ok
Thermal expansion coefficient			0,065 mm/mK
Thermal conductivity coefficient			0,19 W/mK
Water vapour diffusion resistance			17-21

#### 5 Advantages

Providing the application guidelines are followed, Wanit Fulgurit GmbH fibre cement boards have the following superior mix of properties compared to other materials such as gypsum board and wood based board:

- fire safe (no fire ignition, no spread of fire)
- high contribution to sound insulating systems
- resistant to extreme temperatures
- water resistant (if in compliance with application guideline)
- resistant to many living organisms (fungi, bacteria, insects, vermin, etc.)
- resistant to many chemicals
- environmentally friendly, no harmful gas emissions

#### 6 Applications

HYDROPANEL can be used in the following applications:

- Interior walls: backer board for tiling



The warranty on the product is only valid if the Wanit Fulgurit GmbH application guidelines are respected. If in any doubt regarding the suitability of Wanit Fulgurit sheets in any given application, it is advisable to request specific recommendations from Wanit Fulgurit. Under no circumstances can Wanit Fulgurit be held liable for applications of their sheets implemented without approval from Wanit Fulgurit.

## 7 General application data

### Cutting/Sawing:

When working on the sheet it must be sufficiently supported so that it does not sag. The sawing bench must be very stable and may not vibrate. The sheet may not be under tension when sawing. The sheet must be free of vibration and tension during sawing for a good saw cut.

- stationary saw, slow rotation with blade with carbide-tipped teeth or fast rotation with diamond cutting blade without teeth
- hand circular saw (with rail) slow rotation with blade with carbide-tipped teeth or fast rotation with diamond cutting blade without teeth
- jigsaw with carbide-tipped tooth cutting blade
- cut and snap: cut both sides with draw-hook with carbide-tipped tooth and snap on a supported edge

### Edge finish:

- a moulding cutter in order to bevel the edges on-site
- fine emery cloth or sanding block

### Drilling:

- for holes: carbide-tipped twist drill (or completely in carbide) with a 60° nose angle
  - for round apertures: cup drill or circular cutter, carbide-tipped
- The sheet should be supported around the hole to be drilled (e.g. by a wooden surface).

### Fastening accessories:

Depending on the application the following fastening accessories can be used (see application instructions for more information). The material (e.g. stainless steel, galvanised steel, phosphated steel) is also chosen depending on the application.

- Screws: Can be screwed directly without predrilling.
- Nailing: Can be nailed directly without predrilling. The head of the nail may not be driven too deep in the sheet. The pneumatic nailing machine is regulated with constant depth.
- Stapling: The back of the staple may not be driven too deep in the sheet. The pneumatic nailing machine is regulated with constant depth.

Joint treatment:

See Wanit Fulgurit application guidelines.

Coating:

The sheet can be coated for interior applications with vapor-open coatings (e.g. water based acrylate dispersion). For more information see Wanit Fulgurit application guidelines and the guidelines of the supplier of the coating.

Sealant:

Only use neutral sealants. Non-neutral silicones or thiokols can result in spots.

Health and safety aspects:

Dust can be released while the sheets are being processed which can irritate airways and eyes. It is recommended that a dust mask and safety goggles be worn. Appropriate dust extraction or proper ventilation is to be provided depending on the room in which the work is being carried out or the equipment being used. Long-term exposure to dust can be harmful to health.

## 8 Maintenance and cleaning

For minor soiling, washing with a mild household detergent or soft soap solution followed by rinsing with clear water.

## 9 Handling

The sheets are packaged on pallets. They are to be transported under a tarpaulin. The sheets must be horizontally stacked on a flat surface. The sheets must always be sufficient supported so that they do not sag. The sheets must be stacked in a dry ventilated space. If the sheets are stored outside, they must always be protected against rain by a tarpaulin or plastic cover. If the sheets do become wet in the packing, all packaging must be removed and placed in a way that they can dry out thoroughly. It is recommended to allow the sheets to acclimatise in the space where they are to be used. A sheet must always be lifted from a stack by two persons and then be carried vertically.

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