

fermacell Product Data Sheet



fermacell Powerpanel H₂O for internal and external applications exposed to high levels of moisture

Product

The **fermacell** Powerpanel H₂O is a cement-bounded light-concrete construction board with a laminated structure, reinforced on both sides beneath the surface with alkali-resistant glass-fibre mesh.

Application

Internal application for walls and ceilings up to humidity exposure class C (pursuant to ZDB info sheet), external applications for soffits and as a render carrier.

Approvals

- Approval: ETA-07/0087
- Building material class pursuant to DIN EN 13501-1: non-combustible, A1

Properties

- No hazard label, low in harmful substances and emissions
 - tested by eco-Institute Cologne
- Easy to process
 - Square and Tapered edge format

fermacell Powerpanel H₂O

Material properties	
Gross density	~ 1000 kg/m ³
Surface weight	~ 12.5 kg/ m ²
Balancing humidity	~ 5 %
Water vapour diffusion resistance coefficient	$\mu = 56$
Thermal conductivity (in acc. with DIN EN 12664)	$\lambda_{10,tr} = 0.17 \text{ W/mK}$
Thermal resistance (in acc. with DIN EN 12664)	$R_{10,tr} = 0.07 \text{ m}^2\text{K/W}$
Specific heat capacity	$c_D = 1000 \text{ J/ (kgK)}$
Flexural strength	$\geq 6.0 \text{ N/mm}^2$
E-value flexure	~ 4200 N/mm ²
Alkalinity	~ 10
rel. length change (in acc. with EN 318)	0.15 mm/m* 0.10 mm/m**

* between 30 % and 65 % rel. humidity

** between 65 % and 85 % rel. humidity

For further data and information, please refer to European Technical Approval ETA-07/0087

Dimensional tolerances with regard to balancing humidity for standard board formats

Board thickness	12.5 mm
Length, width	$\pm 1 \text{ mm}$
Diagonal difference	$\leq 2 \text{ mm}$
Thickness tolerance	$\pm 0.5 \text{ mm}$
Board formats	1000 x 1250 mm 2000 x 1250 mm 2600 x 1250 mm 3010 x 1250 mm*

*Delivery date on request, cuttings possible



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Surfaces

Front side smooth exposed concrete surface with marking, rear side slightly undulating or sanded for calibration, colour cement grey.

Storage

Packed flat on pallets, outdoor storage possible due to frost resistance (protection with plastic sheet recommended to prevent any contamination).
Max. 3 pallets stacked on top of each other.

Processing

With conventional wood cutting machines, carbide-tipped tools should generally be used when cutting.

Substructure spacing	
Internal wall	≤ 625 mm
Internal ceiling	≤ 500 mm

Please also observe our detailed processing instructions in our brochures and videos at www.fermacell.com

Coating

Primed, painted, plastered or tiled surfaces and PU coatings.

Humidity exposure classes

Domestic bathroom (class 0/A0), sanitary spaces or wellness area in public or commercial establishments (class A), or in commercial kitchens or industrial areas with exposure to chemical loads (class C).

Further information

Our recommendations are based on extensive testing and practical experiences. They do not replace guidelines, standards, approvals and applicable technical data sheets. Due to the large number of possible influences for processing and application, we recommend that you carry out trial processing and application. No claims for compensation may be derived from the information provided. Delivery, processing and the warranty on features assured by us will be in accordance with our GTCs.