

Fermacell Powerpanel H₂O

Description of material

Cement-bound lightweight board with a sandwich structure and top-coat reinforcement consisting of alkali-resistant glass-fibre mesh on both sides.

Areas of application

Interior application for walls and ceilings, exterior applications for soffits and curtain facades.

Approvals

Building inspectorate approval	ETA-07/0087
Construction material to DIN EN 13501-1	Non-flammable, A1

Dimensional tolerances at constant humidity for standard board sizes

Board thickness	12.5 mm
Length, width	± 1 mm
Diagonal difference	≤ 2 mm
Thickness tolerance	± 0.5 mm
Board sizes	1000 x 1250 mm 2000 x 1250 mm 2600 x 1250 mm 3010 x 1250 mm*

*Delivery time on request, may be cut to size

Characteristic values

Density	~ 1000 kg/m ³
Weight per unit area	~ 13 kg/m ²
Moisture equilibrium	~ 5 %
Water vapour diffusion resistance coefficient	μ = 56
Thermal conductivity (to DIN EN 12664)	λ _{10,tr} = 0.17 W/mK
Thermal resistance (to DIN EN 12664)	R _{10,tr} = 0.07 m ² K/W
Specific heat capacity	c _p = 1000 J/(kgK)
Flexural strength	≥ 6.0 N/mm ²
Modulus of elasticity in bending	~ 6000 N/mm ²
Alkalinity	~ 10
Relative change in length (to EN 318)	0.15 mm/m* 0.10 mm/m**

* Betw. 30 % and 65 % r.h.

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

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Surfaces

Smooth formed finish on front side with production data and approvals printed on face; rear face slightly corrugated or sanded for calibration. Cement-grey in colour.

Storage

Packed and laid flat on pallets; may be stored in the open as the panels are frost-proof (we recommend covering them in plastic film to avoid contamination). 3 pallets max. may be stacked on top of one another.

Application

Cut with conventional woodworking tools; generally, carbide-tipped tools should be used when cutting to size.

Distance between furring strips

Wall	≤ 625 mm
Ceiling	≤ 500 mm

Final Finish

Trowel-applied Finish, painted, plastered or tiled surfaces.

Moisture-resistance classes

Domestic bathroom (class 0), sanitary facilities or spa areas (class A01/A1), in public or commercial facilities (class A1), or for chemical exposure in commercial kitchens or industrial areas (class C).

