

Technical Product Information

WEM Clay Panel 25 mm

Article no. 10013

Description

The WEM Clay Panel is a construction board suitable for plaster coating. It is made of plant fibres and reinforced clay mortar.

Scope of application

WEM Clay Panels have been designed as levelling panels for the WEM dry construction system. They are fitted to surface areas that are not covered with WEM Climate Panels to provide a homogeneous subsurface for the finish plaster coat. They provide a supporting base for plaster in dry construction and offer a wide range of applications in interior finishing as wall boarding of timber stud walls, interior walls, partition walls and suspended ceiling. The panels are often used in loft conversion.



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Benefits

- High noise protection
- Simple and easy installation
- Minimum increase in humidity due to thin plaster coats
- Very short drying times
- Pure natural product without any harmful substances
- Permeable to vapour and capillary conductive
- Good heat storage

Materials

Panel	Natural construction loam, plant fibres, mixed grained washed sand
Reinforcement	Glass-fibre fabric



Technical data

Dimensions	100 x 62.5 x 2.5 cm (tolerance +/- 2 mm)		
Weight	Approx. 35 kg/m² (about 22 kg/pce.)		
Bulk density	Approx. 1 400 kg/m ³		
Thermal conductivity λ	0.59 W/m²-K		
Specific thermal capacity C _p	Approx. 1.0 kJ/(kg·K)		
Vapour diffusion resistance μ	5 to 10		
Compressive resistance σ _d	> 2.5 N/mm²		
Edge shape	Blunt		
Material class	A2 (non-combustible) as per DIN EN 13501-1		
To be ensured on site	Protect against moisture, store in dry location, installation temperature ≥ 5°C		

Noise protection

A master thesis at the University of Koblenz examined the influence of WEM Clay Panels 25 mm (LP) on three typical wall structures:

Solid structure: 175 mm lime-sand bricks with a cement plaster coat

of 10 mm thickness

Solid timber: 170 mm solid construction timber (Holz 100)

Timber frame: Timber studs 6/12 cm, with 12 cm wood fibres,

planked on both sides with diagonal boarding

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(2.5 cm)

	Solid structure	Solid timber	Timber frame
Without planking	55.0 dB	39.3 dB	35.0 dB
1 x Clay Panel + 8	57.8 dB	47.8 dB	45.6 dB
mm clay finish coat	Reduction:	Reduction:	Reduction:
	2.8 dB	8.5 dB	10.6 dB
2 x Clay Panel + 16	58.5 dB	56.9 dB	47.7 dB
mm clay finish coat	Reduction:	Reduction:	Reduction:
	3.5 dB	17.2 dB	10.6 dB
80 mm wood fibres +	64.2 dB	60.2 dB	58.9 dB
Clay Panel + 8 mm clay finish coat	Reduction:	Reduction:	Reduction:
ciay iiiiiSii coat	9.2 dB	20.9 dB	23.9 dB