



IsoHemp Block 25

Technical characteristics

The 25 cm block has the ideal thickness for interior or exterior insulation. It's very efficient and suitable for construction of new walls. It can be used in all existing building systems as an insulating masonry block. Its thermal resistance above 3.5 m²K/W guarantees high energy efficiency for optimal comfort in summer and winter alike. It provides humidity regulation and acoustic insulation for your building.

	Value	Unit	Standard
Thickness	25	cm	
Modular dimensions	60 x 30	cm	
Number of blocks per m ²	5,5	blocks/m ²	
Bulk density	320*	kg/m ³	
Maximum block weight	16,5	kg	
Weight of the masonry	1,00	kN/m ²	
Adhesive consumption	9,4	kg/m ²	
Dry thermal resistance	3,73	m ² K/W	NBN EN 1745
Thermal resistance at 50% RH	3,52	m ² K/W	NBN EN 1745
Thermal conductivity λ _{ui}	0,071	W/mK	NBN EN 1745
Phase shift****	16,4	h	ISO 13786
Sound reduction index** R _w	41 (-1 ; -5)	dB	ISO 10140-2
Acoustic absorption coefficient α	0,85		EN ISO 354 : 2003
Equivalent air layer thickness S _d	0,7	m	EN ISO 12572
Water vapour resistance factor μ	2,8		EN ISO 12572
Compressive strength	0,2	MPa	EN 772-1
Reaction to fire	B, s1, d0		NF EN 13501-1
Resistance to fire***	120	min	

* +10% - bulk density at delivery

** Hemp block masonry with rendering on one side - Simulated value

*** Hemp block masonry with rendering on fire side

**** Insignificant in view of damping greater than 100

Advantages

- Significant thermal phase-shift
- Summer and winter comfort
- Quick and easy implementation
- Significant durability of the insulations and its performance

Packaging

	Value	Unit
Dimensions of a pallet (L x l x h)	120 x 100 x 114	cm
Maximum weight of a pallet	455	kg
Number of blocks per pallet	24	blocks/pallet
Number of m ² per pallet	4,32	m ² /pallet
Number of blocks per m ²	5,5	blocks/m ²

Storage

Pallet with shelf stored outside	6 months
Open pallet and exterior wall in progress	3 months
Masonry under completed roof	1 year with a maximum of 1 winter

Solutions



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