



IsoHemp Block 15

Technical characteristics

The 15 cm block, like the 20 cm block, is a very versatile block. It can be used to build as well as to insulate, both inside and out. It offers excellent thermal insulation for optimal comfort in summer and winter alike. It also provides very good acoustic comfort and humidity regulation of walls. This block can be used as formwork for hemp concrete and as a masonry block in post-beam systems, as well as for partitions. It also offers very strong exterior insulation and provides excellent support for all types of rendering and cladding.

	Value	Unit	Standard
Thickness	15	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	9,9	kg	
Weight of the masonry	0,60	kN/m ²	
Adhesive consumption	5,6	kg/m ²	
Dry thermal resistance	2,24	m ² K/W	NBN EN 1745
Thermal resistance at 50% RH	2,11	m ² K/W	NBN EN 1745
Thermal conductivity λ_{ui}	0,071	W/mK	NBN EN 1745
Phase shift	9,8	h	ISO 13786
Sound reduction index** R_w	38 (0 ; -3)	dB	ISO 10140-2
Acoustic absorption coefficient α	0,85		EN ISO 354 : 2003
Equivalent air layer thickness S_d	0,42	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***	60	min	

* +10% - bulk density at delivery

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

*** Hemp block masonry with rendering on fire side

Advantages

- Highly resistant exterior insulation
- Significant thermal phase-shift
- Summer and winter comfort
- Excellent support for renders and cladding

Packaging

	Value	Unit
Dimensions of a pallet (L x l x h)	120 x 100 x 119	cm
Maximum weight of a pallet	474	kg
Number of blocks per pallet	42	blocks/pallet
Number of m ² per pallet	7,56	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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Reno



> **Syst'HEMP**
Facade



> **Syst'HEMP**
Partition



> **Syst'HEMP**
Building