

hempitecture®



NATURALLY EFFICIENT

The insulating **hemp block**
for **building & renovation.**

Official US Distributor of:

ISOHEMP



6 Block – Thickness 15 cm

The hemp block

15 Block – Thickness 15 cm

The 15cm block, like the 20cm 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.

Technical characteristics

	Value	Unit	Standard
Thickness	15	cm	
Modular dimensions	60 x 30	cm	
Number of blocks per m ²	5,5	blokken/m ²	
Maximum block weight	12,4	kg	
Weight of the masonry	0,74	kN/m ²	
Adhesive consumption	5,8	kg/m ²	
Dry thermal resistance	2,24	m ² K/W	EN 12667
Thermal resistance at 50% RH	2,11	m ² K/W	EN 12667
Phase shift λ	0,071	W/mK	EN 12667
Phase shift	9,8	h	ISO 13786
Sound reduction index* Rw	38 (0 ; -3)	dB	ISO 10140-2
Acoustic absorption coefficient α	0,85		EN ISO 354 : 2003
Equivalent air layer thickness Sd	0,42	m	EN ISO 12572
Water vapour resistance factor μ	2,8		EN ISO 12572
Compressive strength	0,22	MPa	EN 772-1
Compressive strength at ULS fd	0,099	MPa	
Reaction to fire	B, s1, d0		NF EN 13501-1
Resistance to fire with render	EI 45	min**	EN 1364-1

* Coated hempblok 15mm on one side – Simulated value

** Value validated and tested with a 12cm thick block - Hemp block masonry plastered on the 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	120 x 100 x 119	cm
Maximum weight of a pallet	546	kg
Number of blocks per pallet	42	blokken/pallet
Number of m ² per pallet	7,56	m ² /pallet
Number of blocks per m ²	5,5	blokken/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

Applications

-  Interior insulation
-  Exterior insulation
-  Interior walls
-  New buildings