

PAL15EX



15 Block – Thickness 15 cm

Technical characteristics

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.

	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 +/- 10%	kg/m ³	
Maximum block weight	10,7	kg	
Weight of the masonry	0,64	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	0,071	W/mK	NBN EN 1745
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	0,2	MPa	EN 772-1
Reaction to fire	B, s1, d0		NF EN 13501-1
Resistance to fire	60	min	

* 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	474,4	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

Applications

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