PAL12EX

12 Block – Thickness 12 cm

The 12 cm block fulfils all interior insulation needs for renovations of old buildings. It regulates humidity naturally, which allows it to be used to insulate interior and exterior walls that are more humid. This block offers good thermal phase-shift, regulates heat, and improves living comfort significantly. Its thickness also allows it to be used in interior masonry. This block also offers very good sound insulation. From this thickness, hemp blocks are an efficient solution for exterior insulation of buildings.

Technical characteristics

	Value	Unit	Standard
Thickness	12	cm	
Modular dimensions	60 x 30	cm	
Number of blocks per m²	5,5	blocks/m²	
Bulk density	320 +/- 10%	kg/m³	
Maximum block weight	8,6	kg	
Weight of the masonry	0,52	kN/m²	
Adhesive consumption	4,5	kg/m²	
Dry thermal resistance	1,79	m²K/W	NBN EN 1745
Thermal resistance at 50% RH	1,69	m²K/W	NBN EN 1745
Thermal conductivity λ	0,071	W/mK	NBN EN 1745
Phase shift	7,9	h	ISO 13786
Sound reduction index* Rw	38 (-1 ;-3)	dB	ISO 10140-2
Acoustic absorption coefficient α	0,85		EN ISO 354 : 2003
Equivalent air layer thickness Sd	0,34	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
** Hemp block masonry plastered on the fire side

Advantages

- Natural humidity control
- Thermal inertia input
- Quick and easy implementation
- Significant thermal phase-shift

Packaging

	Value	Unit
Dimensions of a pallet	120 x 100 x 122	cm
Maximum weight of a pallet	489,4	kg
Number of blocks per pallet	54	blocks/pallet
Number of m² per pallet	9,72	m²/pallet
Number of blocks per m²	5,5	blocks/m²
	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