

36 Block - Thickness 36 cm

NEW 2.0 Hempro System

Technical characteristics

The 36 cm block is the reference block for new construction with very high thermal performance (very low energy). When associated with a load-bearing structure (Hempro system, post-beam system, etc.), it creates the entire envelope of a building. With high-level insulation (thermal phase shift > 23h), the block provides optimal comfort both through its thermal and acoustic qualities and its humidity regulation properties.

	Value	Unit	Standard
Thickness	36	cm	
Modular dimensions	60 x 20	cm	
Number of blocks per m ²	8,3	blocks/m²	
Maximum block weight	19,8	kg	
Weight of the masonry	1,71	kN/m²	
Adhesive consumption	7,5	kg/m²	
Dry thermal resistance	5,37	m²K/W	EN 12667
Thermal resistance at 50% RH	5,07	m²K/W	EN 12667
Phase shift λ	0,071	W/mK	EN 12667
Phase shift***	23,6	h	ISO 13786
Sound reduction index* Rw	44 (-1 ;-6)	dB	ISO 10140-2
Acoustic absorption coefficient α	0,85		EN ISO 354: 2003
Equivalent air layer thickness Sd	1	m	EN ISO 12572
Water vapour resistance factor µ	2,8		EN ISO 12572
Compressive strength	0,22	MPa	EN 772-1
Compressive strenght at ULS fd	0,099	MPa	
Reaction to fire	B, s1, d0		NF EN 13501-1
Resistance to fire with render	EI 120	min**	EN 1364-1

^{*} Coated hempblok 15mm on one side – Simulated value

Advantages

- Very significant phase shift (>23h)
- Summer and winter comfort
- Open to water vapour diffusion
- Excellent support for renders and claddings

Packaging

	Value	Unit	
Dimensions of a pallet	120 x 100 x 114	cm	
Maximum weight of a pallet	521	kg	
Number of blocks per pallet	25	blocks/pallet	
Number of m² per pallet	3	m²/pallet	
Number of blocks per m ²	8,3	blocks/m²	
	Stor	age	
Pallet with shelf stored outside	6 mo	6 months	
Open pallet and exterior wall in progress	3 mo	3 months	
Masonry under completed roof	1 year with a max	l year with a maximum of l winter	

Applications

Interior insulation
External insulation
New buildings
Floor & roo



^{**} Value validated and tested with a 30cm thick block- Hemp block masonry plastered on the fire side
**** Insignificant considering a damping of more than 300