

# THE HEMP BLOCK

## 36 Block – Thickness 36 cm

**PAL36**

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, timber frame, 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.



### › ADVANTAGES

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

### › TECHNICAL CHARACTERISTICS

	Value	Unit	Standard
Thickness	36	cm	
Modular dimensions	60x30	cm	
Number of blocks per m <sup>2</sup>	5,5	blocs/m <sup>2</sup>	
Maximum block weight	27,5	kg	
Bulk density when dry	340	kg/m <sup>3</sup>	EN 772-13
Adhesive consumption	14	kg/m <sup>2</sup>	
Dry thermal resistance	5,37	m <sup>2</sup> K/W	EN 12667
Thermal resistance at 50% RH	5,07	m <sup>2</sup> K/W	EN 12667
Thermal conductivity 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	300	kPa	EN 772-1
Dimensional tolerance	+4 ; -2	mm	EN 772-16
Reaction to fire	Without render	B, s1, d0	NF EN 13501-1
	With render	A2	NF EN 13501-1
Resistance to fire with render	EI 120	min**	EN 1364-1

\* Coated hempblok 15mm on one side – Simulated value  
 \*\* Value validated and tested with a 12cm thick block

### › APPLICATIONS



Interior insulation



External insulation



New build



Floor & roof

### › PACKAGING

	Value	Unit
Dimensions of a pallet	120 x 100 x 120	cm
Maximum weight of a pallet	520	kg
Number of blocks per pallet	18	blocks/pallet
Number of m <sup>2</sup> per pallet	3,24	m <sup>2</sup> /pallet
Number of blocks per m <sup>2</sup>	5,5	blocks/m <sup>2</sup>
Storage	3	months/exterior
Storage life	2	years if covered