



## 36 Block – Thickness 36 cm

### NEW 2.0 Hempro System

The hemp block  
36 Block – Thickness 36 cm

## 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 <sup>2</sup>	8,3	blocks/m <sup>2</sup>	
Maximum block weight	19,8	kg	
Bulk density when dry	340	kg/m <sup>3</sup>	EN 772-13
Adhesive consumption	7,5	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
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
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

\*\* Value validated and tested with a 20cm thick block

## 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 m <sup>2</sup> per pallet	3	m <sup>2</sup> /pallet
Number of blocks per m <sup>2</sup>	8,3	blocks/m <sup>2</sup>
Storage	3	months/exterior
Storage life	2	years if covered

## Applications

-  Interior insulation
-  External insulation
-  New buildings
-  Floor & roof

Please refer to the Hempro conception guide before ordering. If in doubt, contact IsoHemp's technical department.