



## 30 Block – Thickness 30 cm

**NEW 2.0 Hempro System**

# The hemp block

30 Block – Thickness 30 cm

The 30 cm block is particularly suited to new low-energy constructions. This insulating masonry block can be combined with all construction systems and offers optimal compatibility with the Hempro system. The thermal phase shift of this very efficient block exceeds 19h and ensures optimal temperature in summer and winter while regulating the humidity of your home. The block also dampens sound waves and eliminates noise pollution. Like block 36, it can be used in existing constructions as state-of-the-art interior or exterior insulation.

## Technical characteristics

	Value	Unit	Standard
Thickness	30	cm	
Modular dimensions	60 x 30	cm	
Number of blocks per m <sup>2</sup>	5,5	blocks/m <sup>2</sup>	
Maximum block weight	24,8	kg	
Weight of the masonry	1,39	kN/m <sup>2</sup>	
Adhesive consumption	5,8	kg/m <sup>2</sup>	
Dry thermal resistance	4,48	m <sup>2</sup> K/W	EN 12667
Thermal resistance at 50% RH	4,23	m <sup>2</sup> K/W	EN 12667
Phase shift λ	0,071	W/mK	EN 12667
Phase shift***	19,7	h	ISO 13786
Sound reduction index* Rw	42 (-1;-5)	dB	ISO 10140-2
Acoustic absorption coefficient α	0,85		EN ISO 354 : 2003
Equivalent air layer thickness Sd	0,84	m	EN ISO 12572
Water vapour resistance factor μ	2,8		EN ISO 12572
Compressive strength	0,22	MPa	EN 772-1
Compressive strength at ULS fd	0,099	MPa	
Reaction to fire	B, sl, 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 30cm thick block- Hemp block masonry plastered on the fire side

\*\*\* Insignificant considering a damping of more than 300

## Advantages

- Durability of the insulator and its performances
- Phase shift (>19h)
- Summer and winter comfort
- Open to water vapour diffusion

## Packaging

	Value	Unit
Dimensions of a pallet	120 x 100 x 104	cm
Maximum weight of a pallet	471	kg
Number of blocks per pallet	18	blokken/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	blokken/m <sup>2</sup>

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

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