



30 Block – Thickness 30 cm

Hempro System

Technical characteristics

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.

	Value	Unit	Standard
Thickness	30	cm	
Modular dimensions	60 x 30	cm	
Number of blocks per m ²	5,5	blocks/m ²	
Bulk density	320 +/- 10%	kg/m ³	
Maximum block weight	21,5	kg	
Weight of the masonry	1,21	kN/m ²	
Adhesive consumption	3,8	kg/m ²	
Dry thermal resistance	4,48	m ² K/W	NBN EN 1745
Thermal resistance at 50% RH	4,23	m ² K/W	NBN EN 1745
Thermal conductivity λ	0,071	W/mK	NBN EN 1745
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	0,2	MPa	EN 772-1
Reaction to fire	B, s1, d0		NF EN 13501-1
Resistance to fire	240	min	

* 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	412	kg
Number of blocks per pallet	18	blocks/pallet
Number of m ² per pallet	3,24	m ² /pallet
Number of blocks per m ²	5,5	blocks/m ²

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