



The hemp block

30 Block – Thickness 30 cm



PAL30 | PAL30EX

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NEW 2.0 Hempro System

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 ²	5,5	blocks/m ²	
Maximum block weight	24,8	kg	
Bulk density when dry	340	kg/m ³	EN 772-13
Adhesive consumption	5,8	kg/m ²	
Dry thermal resistance	4,48	m ² K/W	EN 12667
Thermal resistance at 50% RH	4,23	m ² 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
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

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

Packaging

	Value		Unit
	PAL30	PAL30EX	
Dimensions of a pallet	120 x 100 x 104		cm
Maximum weight of a pallet	600	471	kg
Number of blocks per pallet	24	18	blocks/pallet
Number of m ² per pallet	4,32	3,24	m ² /pallet
Number of blocks per m ²	5,5	5,5	blocks/m ²
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.