

# HEMP BLOCK


PAL15


## 15 CM THICKNESS

The 15cm hemp block has numerous applications, mainly in exterior insulation but also in interior insulation, as cladding in hemp concrete or as filling in column and beam systems in new builds. Its mechanical strength and high inertia guarantee high thermal comfort in the building.




### Advantages

 Highly resistant exterior insulation

 Significant thermal phase-shift

 Summer and winter comfort

 Excellent medium for renders and cladding

Technical characteristics		Value	Unit	Standard
Modular dimensions		60 x 30	cm	
Thickness		15	cm	
Number of blocks per m <sup>2</sup>		5.5	blocks	
Maximum block weight		11,5	kg	
Dry apparent bulk density		340	kg/m <sup>3</sup>	EN 772-13
Mortar adhesive consumption		5.8	kg/m <sup>2</sup>	
Dry heat resistance		2.24	m <sup>2</sup> K/W	EN 12667
Heat resistance at 50% HR		2.11	m <sup>2</sup> K/W	EN 12667
Thermal conductivity $\lambda$		0,071	W/mK	EN 12667
Thermal phase shift		9.8	h	ISO 13786
Sound resistance index * Rw		40	dB	ISO 10140-2
Sound absorption coefficient $\alpha$		0.85		EN ISO 354: 2003
Sd diffusion equivalent thickness		0.42	m	EN ISO 12572
Water vapour diffusion resistance factor $\mu$		2.8		EN ISO 12572
Resistance to the compression		300	kPa	EN 772-1
Dimensional tolerance		+4 ; -2	mm	EN 772-16
Reaction to fire	Without plaster	B, S1, d0		NF EN 13501-1
	With plaster non-flammable	A1		NF EN 13501-1

\* Hemp masonry block coated on one side - extrapolated value

### Fields of application



#### INTERIOR INSULATION

The 15cm block is the ideal partner in important interior renovations of old buildings with large rooms and areas. For example, it is used in the conversion of old barns or farmhouses.



#### EXTERIOR INSULATION

Thanks to its high mechanical strength, the 15cm block is ideal for exterior renovation. It enables the cladding of all types of exterior walls and provides an excellent medium for renders and cladding.

Packaging	Value	Unit
Dimensions of a pallet	120 x 100 x 145	cm
Maximum weight of a pallet	600	kg
Number of blocks per pallet	48	blocks/pallet
Number of blocks per pallet	8.64	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



#### NEW BUILD

The 15cm block may be placed between column and beam structures as insulation filling or as an envelope block in timber frame buildings. In this case, it also serves as an excellent medium for finishes.