

Hemp block is a superior hempcrete block that combines insulation and thermal mass properties.

Hemp block is comprised of hemp shiv, hydrated dolomitic lime and probiotics.

Respecting the principles of social and environmental sustainability, it has all the characteristics required of a building material in line with sustainable development:

- High insulating capacity
- Low embodied energy
- The ability to absorb CO<sub>2</sub> from the atmosphere.



### Characteristics

Thermal, acoustic and hydrometric comfort  
Breathable (vapour permeable)  
Resistant to fire, frost, insects and rodents  
Low embodied energy  
Recyclable

### Applications

Construction of insulating and breathable masonry walls  
External wall insulation system for existing buildings  
Internal wall insulation system for existing buildings  
Solid floor insulation  
Internal partitions with acoustic insulation

### Laying

The blocks are laid in a thin bed of mortar composed of hemp and lime according to the proportions indicated in the installation manual.

A handsaw, reciprocating saw or alligator saw can be used to cut the blocks

Internal surfaces and partition walls can be coated with sand and lime mortar, clay, gypsum or other breathable finishes.

External surfaces can be left exposed or coated with breathable finishes.

NB. (height) +/- 10 mm	80	120	250	300	360	400	500
Sizes - Length, thickness, height in mm	500X80X200	500X120X200	500X250X200	500X300X200	400X360X200	360X400X200	300X500X200
Density -Kg/m <sup>3</sup> dry	300	330	330	330	330	330	330
Conductivity - W/mk λ	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Transmittance - W/m <sup>2</sup> K U	0.76	0.53	0.27	0.22	0.19	0.17	0.14
Thermal offset without plaster	3h 09'	5h 53'	14h 48'	18h 13'	22h 19'	25h 04'	31h 55'
Specific heat capacity - J/KgK	1280	1280	1280	1280	1280	1280	1280
Vapour permeability - μ	μ = 4,5	μ = 4,5	μ = 4,5	μ = 4,5	μ = 4,5	μ = 4,5	μ = 4,5
Sound absorption coefficient (aw)	1 - CLASSE A	1 - CLASSE A	1 - CLASSE A	1 - CLASSE A	1 - CLASSE A	1 - CLASSE A	1 - CLASSE A
Soundproofing index (Rw) - dB						43	
Compressive strength - N/mm <sup>2</sup>	0,4	0,4	0,4	0,4	0,4	0,4	0,4
Shear traction with rawlplug - kN	2,067	2,067	2,067	2,067	2,067	2,067	2,067
Orthogonal traction with rawlplug - kN	2,734	2,734	2,734	2,734	2,734	2,734	2,734
Reaction to fire with plaster	B - s1, d0	B - s1, d0	B - s1, d0	B - s1, d0	B - s1, d0	B - s1, d0	B - s1, d0

