



The Hemp Block

COMPANY

Building with Nature



DESCRIPTION

Blocco Ambiente® is a unique material that combines insulation and thermal mass properties. It is composed of hemp shiv (certified CenC), 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 and the ability to absorb CO₂ from the atmosphere.

CHARACTERISTICS

- Thermal, acoustic and hygrometric comfort;
- Blocco Ambiente® is 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 can be coated with breathable finishes.

NB. [height] +/- 1 cm	HB80	HB120	HB250	HB300	HB360	HB400	HB500
Sizes - Length, Thickness, Height - cm	50x8x20	50x12x20	50x25x20	50x30x20	40x36x20	36x40x20	30x50x20
Density - Kg/m ³ dry	330	330	330	330	330	330	330
Conductivity - W/mk LAMBDA λ	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Transmittance - W/m ² 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 ²	0,4	0,4	0,4	0,4	0,4	0,4	0,4
Shear traction with rawplug - kN	2,067	2,067	2,067	2,067	2,067	2,067	2,067
Orthogonal traction with rawplug - 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



eco-friendly



durable



100% recyclable



100% biodegradable



carbon negative



breathability



living comfort



soundproof



high thermal insulation



fireproof



energy saving



Building with Nature

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