



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)m, 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	NEW HB200	HB250	HB300	HB360	HB400	HB500
Sizes Length, Thickness, Height - cm	50x20x8	50x20x12	50x40x20	50x20x25	50x20x30	40x20x36	50x20x40	40x20x50
Density - Kg/m ³ dry	310	310	310	310	310	310	310	310
Conductivity - W/mk LAMBDA λ	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Transmittance - W/m ² K U	0.76	0.53	0.33	0.27	0.22	0.19	0.17	0.14
Thermal offset without plaster	2h 35'	4h 57'	9h 54'	12h 59'	16h 02'	19h 43'	22h 10'	28h 18'
Specific heat capacity - J/KgK	1600	1600	1600	1600	1600	1600	1600	1600
Vapour permeability - μ	μ = 4,5	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	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	0,4
Shear traction with rawplug - kN	2,067	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	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	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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