

HEMP BLOCK

BLOCCO AMBIENTE



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 | BA8 | BA12 | BA25 | BA30 | BA36 | BA40 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|
| Sizes - Length, Thickness, Height - cm | 50x8x20 | 50x12x20 | 50x25x20 | 50x30x20 | 40x36x20 | 36x40x20 |
| Density - Kg/m ³ dry | 330 | 330 | 330 | 330 | 330 | 330 |
| Conductivity - W/mk LAMBDA λ | 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 |
| Thermal offset without plaster | 3h 09' | 5h 53' | 14h 48' | 18h 13' | 22h 19' | 25h 04' |
| Specific heat capacity - J/KgK | 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 |
| Sound absorption coefficient (aw) | 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 |
| Shear traction with rawplug - kN | 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 |
| Reaction to fire with plaster | B - s1, d0 | B - s1, d0 | B - s1, d0 | B - s1, d0 | B - s1, d0 | B - s1, d0 |
| Fire resistance - min | | EI 60 | | | | |



eco-friendly



durable



100% recyclable



100% biodegradable



carbon negative



breathability



living comfort



soundproof



high thermal insulation



fireproof



energy saving

