



BIO BETON 200 JET



DESCRIPTION

Bio Beton 200 Jet is a low-density hemp and lime biocomposite that combines properties of insulation and thermal mass. It is composed of hemp shiv (certified CenC) and hydrated dolomitic lime.

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, Bio Beton 200 Jet is breathable (vapour permeable).
- Resistant to fire, frost, insects and rodents.
- Absence of toxic fumes in case of fire.
- Low embodied energy.
- Recyclable.

APPLICATIONS

- Insulation of roofs, attics and lofts.
- Construction of insulating and breathable masonry walls.
- External wall insulation system for existing buildings.
- Internal wall insulation system for existing buildings.
- Subfloor insulation.

LAYING

The product is laid with a Tecnocanapa Hempjet spraying machine.

Thickness - cm	10	15	20	30	40
Density - Kg/m ³ dry	175	175	175	175	175
Thermal Conductivity - W/mk LAMBDA λ	0,053	0,053	0,053	0,053	0,053
K Thermal transmittance - W/m ² K U	0,49	0,33	0,25	0,17	0,13
Vapour permeability - μ	2,8 ≤ μ ≤ 3,5	2,8 ≤ μ ≤ 3,5	2,8 ≤ μ ≤ 3,5	2,8 ≤ μ ≤ 3,5	2,8 ≤ μ ≤ 3,5
Specific heat capacity - J/KgK	1480	1480	1480	1480	1480
Compression behaviour (tension at 10%) - kPa	71	71	71	71	71
Thermal offset (according to ISO 13786)	3h 40'	6h 20'	9h	14h 30'	20h
Soundproofing index when placed on a wooden floor (R _w) - dB			40		
Soundproofing index when sprayed 28cm thick on 12cm of brick including internal/external coating (R _w) - dB				56	
Reaction to fire with gypsum fibreboards	A1 En 13501-1 Classe I	A1 En 13501-1 Classe I	A1 En 13501-1 Classe I	A1 En 13501-1 Classe I	A1 En 13501-1 Classe I



eco-friendly



durable



100% recyclable



100% biodegradable



carbon negative



breathability



living comfort



soundproof



high thermal insulation



fireproof



energy saving