



DESCRIPTION

Bio Beton 200 Jet is a high-mass insulating biocomposite that combines properties of insulation and thermal mass. It is composed of hemp shiv (certified CenC) and natural lime, with a binder based on hydrated dolomitic lime and probiotic microorganisms. 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
Water vapour diffusion resistance - μ	$2,8 \leq \mu \leq 3,5$	$2,8 \leq \mu \leq 3,5$	$2,8 \leq \mu \leq 3,5$	$2,8 \leq \mu \leq 3,5$	$2,8 \leq \mu \leq 3,5$
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 (Rw) - dB			40		
Soundproofing index when sprayed 28cm thick on 12cm of brick including internal/external coating (Rw) - 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
Total GWP - kg CO ₂ eq/m ³	-104	-104	-104	-104	-104

