BIO BETON 200 JET

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 CO^2 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/m³ 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/m²K	U	0,49	0,33	0,25	0,17	0,13
Water vapour diffusion resistance - 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 (Rw) - dB				40		
Soundproofing index when spayed 28cm thick on 12cm of brick including internal/exteral 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

eco-friendly · durable · 100% recyclable · 100% biodegradable · carbon negative · breathability · living comfort · soundproof · high thermal insulation · fireproof · energy saving

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