

7. ROOFS

Roof B reflect - therm and cement bonded particle boards



Complete reflective ventilated system for thermo-acoustic insulation with cement bonded particle boards and wood fiber panels

The complete system of natural insulation for high-performance wooden roofs Roof therm reflect and ventilated is designed specifically to respond to the well-being and comfort in all climatic zones, with particular attention to the warmer ones. The system is characterized by excellent values of thermal, acoustic and breathability that reduce the formation of mold and humidity compared to traditional systems.

STRATIGRAPHY	DESCRIPTION	QUANTITY m ²	PRICE €/m ²	AMOUNT
1 Reflective layer	White reflective film			
2 Waterproofing	composed of (from top to bottom): 2a. Sika MonoTop X1 Monocomponent cementitious mortar 2b. Sika Reemat Premium Fiberglass mat 2c. Sikadur Combi ex SG Elastic waterproofing tape for joints 2d. Sikalastic 612 Polyurethane for walkable roofing			0
3 Cement bonded particle boards BetonWood thickness 22 mm	Pressed cement bonded particle boards with high compactness, density and hardness, resistant to fire, to atmospheric agents, with excellent thermal and acoustic insulation characteristics. The panels are made of Portland-type concrete conglomerate and high-density debarked Pine wood fiber ($\delta=1350 \text{ Kg/m}^3$) and with the following thermodynamic characteristics: coefficient of thermal conductivity $\lambda=0,26 \text{ W/mK}$, specific heat $c=1.88 \text{ KJ / Kg K}$, coefficient of resistance to vapor penetration $\mu=22,6$ and fire reaction class A2-fl-s1, according to EN 13501-1. The dimensions are ... mm for a thickness of ... mm.			0
4 Battens for ventilation	Battens perpendicular to the gutter line directly on the insulating panel, the strips will have suitable fastening all'assito adhesion with the underlying wood, the distance of the strips is to be assessed according to the load of its own structure and the external loading actions. Thanks to the air gap, the air enters the eaves and rises to the surface, absorbing most of the heat produced by the sun's rays.			
5 Cement bonded particle boards BetonWood thickness 22 mm	Pressed cement bonded particle boards with high compactness, density and hardness, resistant to fire, to atmospheric agents, with excellent thermal and acoustic insulation characteristics. The panels has the following thermodynamic characteristics: density $\delta=1350 \text{ Kg/m}^3$, coefficient of thermal conductivity $\lambda=0,26 \text{ W/mK}$, specific heat $c=1.88 \text{ KJ / Kg K}$, coefficient of resistance to vapor penetration $\mu=22,6$ and fire reaction class A2-fl-s1, according to EN 13501-1. The dimensions are ... mm for a thickness of ... mm.			0
6 Wood fiber panels Fibertherm 160 (2 layers) available thickness: 60+80 mm	The panels are made of wood ber with density $\delta=160 \text{ Kg/m}^3$, are produced with a wet system, in compliance with EN 13171 and EN 13986 standards under constant quality control. The material has the following thermodynamic characteristics: coefficient of thermal conductivity $\lambda=0.039 \text{ W/mK}$, specific heat $c=2100 \text{ J/Kg K}$, coefficient of resistance to vapor penetration $\mu=5$ and reaction to fire class E, according to EN 13501-1 standard. The dimensions are ... mm for a thickness of ... mm. The wood comes from forests controlled by FSC reforestation cycles.			0
7 Steam brake FiberTherm multi membra 5	Steam brake for better airtightness on the outer side of the roof, resistant to UVrays, excellent adhesion properties and tear resistance. Size: 1,50 mx50 m Roll surface: 75m ² Weight approx.110 g/m ²			0
8 Matchboard	Matchboard thickness of 25 mm			
TAX IVA 22%		0	TAXABLE	0
TOTAL AMOUNT				0