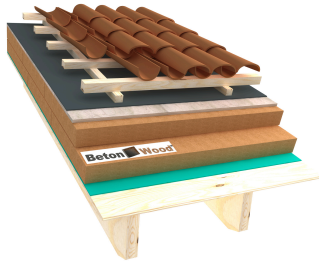


4. ROOFS

Roof B - therm and cement bonded particle boards

Ecological roof systems for thermo-acoustic insulation with cement bonded particle board density 1350 kg/m³ and wood fiber density 160 kg/m³ on matchboarding



Complete dry system for high-displacement thermal roofs with BetonWood cement bonded particle boards and Fibertherm wood fiber insulation panels on matchboarding. Excellent system for thermo-acoustic insulation of roofs.

STRATIGRAPHY	DESCRIPTION	QUANTITY m ²	PRICE €/m ²	AMOUNT	
1 Roof tiles	Roof tiles				
2 Block-tiles battes	Wooden battens to support tiles, parallel to the eaves line and with a pitch related to the roof tile.				
3 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.				
4 Anti-steam barrier FiberTherm multi UDB	High airtight sealant vapor barrier for renovation solutions. Extreme ease of installation for safe and simple use. It has an integrated adhesive strip to secure joints and can be used as a temporary cover. Size: 1,50 m x 50 m Roll surface: 75m ² Weight approx.160 g/m ²			0	
5 Cement bonded particle boards BetonWood available thicknesses: 16 mm 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 fibre ($\delta=1350 \text{ kg/m}^3$) 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 of the panel correspond to ... mm for a thickness of ... mm. The wood used in panel processing comes from forests controlled by FSC reforestation cycles and pressed with water and hydraulic binder (Portland cement) with high cold compression ratios.			0	
6 Wood fiber panels Fibertherm 160 (2 layers) available thicknesses: 60+60 mm 80+80 mm 100+100 mm	The panels are made of wood fiber 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 is characterized by 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 UV rays, 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