18. ROOFS



Beton Wood®

Roof E plus - therm, isorel and cement boards

Ecological roof systems for thermo-acoustic insulation with cement boards density 1350 kg/m³ and wood fibers density 160 kg/m³ and 230 kg/m³ on terracotta tiles

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Complete dry system for high-displacement thermal roofs with BetonWood cement bonded particle boards, Therm and Isorel wood fiber insulation panels on terracotta tiles. Excellent system for thermo-acoustic insulation of roofs.

STRATIGRAPHY		DESCRIPTION	QUANTITY m ²	PRICE €/m²	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.			
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 fibe (δ =1350 Kg/m ³) and with the following thermodynamic characteristics: coefficient of thermal conductivity λ =0,26 W/mK, specific heat c=1.88 KJ / Kg K, coefficient of resistance to vapor penetration μ =22,6 and fire reaction class A2-fl-s1, according to EN 13501-1. The dimensions are mm for a thickness of mm. The wood 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 Isorel 230 thickness 19 mm	The panels are made of wood ber with density σ =230 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: thermal conductivity coeff. λ =0,05 W/mK, specific heat c=2100 J/Kg K, resistance to vapor penetration coeff. μ =5 and reaction to fire class E, according to EN 13501-1 standard. The panel dimensions are mm for a thickness of mm.			0
7	Wood fiber panels Fibertherm 160 (2 layers) available thicknesses: 60+60 mm 80+80 mm 100+100 mm	The panels are made of wood ber with density δ =160 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 λ =0.039 W/mK, specific heat c=2100 J/Kg K, coefficient of resistance to vapor penetration μ =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
8	Concrete	Concrete layer			0
9	Terracotta tiles	Terracotta tiles thickness 30 mm			
		TAX IVA 22%	0	TAXABLE	0
	TOTAL AMOUNT				0

The functionality of the system will be covered by a BetonWood guarantee for the characteristics of air tightness, water proofing and isolation of the technological package. The warranty will be documented with the appropriate Certificate and Certificate of Assurance that will be delivered at the end of the work to the DD.LL. from the same layer. The forms are available on the BetonWood website as well as the technical indications, the application matrix and the exclusion clauses.