

## 2a. ROOFS



### Roof A bitumfiber plus - therm, bitumfiber, cement boards

Ecological roof systems for thermo-acoustic insulation with cement boards density 1350 kg/m<sup>3</sup> and wood fiber Therm and bituminous Bitumfiber on matchboarding

Complete dry system for high-displacement thermal roofs with BetonWood cement bonded particle boards, Therm wood fiber panels and bituminous wood fiber Bitumfiber on matchboarding. Excellent system for insulation of roofs.

STRATIGRAPHY	DESCRIPTION	QUANTITY m <sup>2</sup>	PRICE €/m <sup>2</sup>	AMOUNT
1	Roof tiles	Roof tiles		
2	Support-Spacer type Aercoppo	An element, weighing 36 g, made of polypropylene copolymer stabilized to U.V.A. rays, with the function of raising and anchoring, to be applied on the back of each tile roof. It creates, a true ventilation chamber of 600 cm <sup>2</sup> /m underlay, raising the channel tile only 3.5 cm from the laying surface.		0
3	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 <sup>2</sup> Weight approx.160 g/m <sup>2</sup>		0
4	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 fiber ( $\delta=1350 \text{ Kg/m}^3$ ) and with the following thermodynamic characteristics: coeff. of thermal conductivity $\lambda=0,26 \text{ W/mK}$ , specific heat $c=1.88 \text{ KJ / Kg K}$ , coeff. 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. 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
5	Bituminous wood fiber Bitumfiber thickness 23 mm	BitumFiber bituminous wood fiber panel is the optimal combination for high strength in dry and wet screed construction. The material is characterized by the following thermodynamic characteristics: density approx. 280 (+20-10) kg/m <sup>3</sup> , coefficient of thermal conductivity $\lambda=0,050 \text{ W/mK}$ , coefficient of resistance to vapor penetration $\mu=5$ , specific heat $c=2100 \text{ J/Kg K}$ and reaction to fire class E, according to EN 13501-1 standard, CE certified. The wood used in the processing of the panels comes from forests controlled by FSC reforestation cycles.		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 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 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 UVrays, excellent adhesion properties and tear resistance. Size: 1,50 mx50 m Roll surface: 75m <sup>2</sup> Weight approx.110 g/m <sup>2</sup>		0
8	Matchboard	Matchboard thickness of 25 mm		
		TAX IVA 22%	0	TAXABLE 0
				TOTAL AMOUNT 0