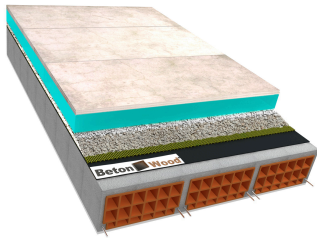



10. ROOFS

Roof styr plus - Betonstyr e Betonwood



Thermo-acoustic insulation systems for inverted roof with BetonStyr coupled panels with addition of a layer in BetonWood cement bonded particle board

Inverted roof BetonStyr plus's complete natural insulation system for high-performance wooden roofs is ideal for home comfort and comfort in all climate zones. 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 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	
2 Betonstyr thickness 22 + 100 mm	BetonStyr rigid insulating panel, 20 + 100mm thick, made up of two layers coupled in the factory consisting of a BetonWood cement bonded particle board, high density (1350kg/m^3), made of Portland cement mix and barked pine wood fiber thickness 18 or 20 mm and an insulating layer of extruded polystyrene with a thickness of 100 mm. The cement bonded particle board has 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 reaction class to A2 fire, according to EN 13501-1. The polystyrene is characterized by the following thermodynamic characteristics: coefficient of thermal conductivity $\lambda=0,026 \div 0,036 \text{ W/mK}$, specific heat $c = 1,450 \text{ J / Kg K}$, coefficient of resistance to vapor penetration $\mu=50 \div 100$. Both materials are CE certified.			0	
3 Gravel thickness 3 mm	Gravel 3-5 is a stone aggregate of siliceous nature in a granulometric curve from 3 to 5 mm.				
4 BetonNet 360	Glass fiber mesh 360 g/m^3 warp-proof and alkali resistant, used in insulation systems.			0	
5 Bituminous sheath	elastoplastomeric compound waterproofing membrane (BPP), characterized by a cold exibility of $-5^\circ\text{C} / -10^\circ\text{C} / -15^\circ\text{C}$, reinforced polyester reinforced. The product has a good mechanical strength, considerable dimensional stability and is not sensitive to seasonal climatic variations.				
6 Concrete roof	In the case of a roof with reinforced concrete structure suspensions must be possibly bound to the joists and not to hollow bricks.				
		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.				