



## 9. EXTERNAL WALLS

### Betonwood and wood fiber Therm on X-lam

Building systems for the realization of external walls and counter-walls using cement bonded particle boards and wood fiber Fibertherm on X-lam

Complete system for the realization of walls and counter-walls on wood structures using cement bonded particle boards and insulating wood fiber Fibertherm. Complete supply: panels and installation accessories

STRATIGRAPHY	DESCRIPTION	QUANTITY m <sup>2</sup>	PRICE €/m <sup>2</sup>	TOTAL	
1 Wall	X-Lam wall				
2 Wood structure	Wood structure beams				
3 Angular starter base Beton DripStarter PVC	PVC profile with thermosealed glass fiber mesh 165 gr / m2 certified ETAG004. Sealed connection between the starting base and the armed skimming layer. It interrupts the flow of water avoiding infiltrations. Prevents cracking in the plinth area. Size 2,5x0,125 m. 25 pieces/package.			0	
4 Anti-humidity panel Styr XPS - Optional	Starting panel in Styr XPS extruded polystyrene that protects the panels from rising damp coming from the bottom. Height h30 cm			0	
5 Wood fiber panels FiberTherm 160	Supply and installation of the thermo-acoustic insulation of the vertical wall with FiberTherm wood fiber panels with joined joints. The panels are made of wood fiber with density $\delta = 160 \text{ Kg / m}^3$ and 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 of the panels correspond to ... mm for a thickness of ... mm. The wood used has FSC mark.			0	
6 Cement bonded particle boards BetonWood N thicknesses 18/20/22mm	The BetonWood N cement bonded particle boards, with high density (1350 Kg/m3), made of Portland-type cement conglomerate and debarked Pine wood fiber. These panels have the following thermo-dynamics characteristics: thermal conductivity coefficient $\lambda=0,26 \text{ W/mK}$ , specific heat $c=1,88 \text{ KJ/Kg K}$ , coefficient of resistance to vapor penetration $\mu=22,6$ and reaction to fire class A2-fl-s1, according to the standard EN 13501-1. Available in the following sizes: 870x515 mm, 1012x515 mm, 1025x515 mm, 1200x500 mm, 1220x500 mm. Thicknesses from 18 to 22 mm. Available with stepped, tongue&groove and sharp edges.			0	
7 Screws NF60	The screw has a special anti-corrosion coating that guarantees a 1,000-hour salt spray resistance. Under-head with very sharp self-sinking fins for a perfect housing of the head flush with the slab. Spoon tip (spoon) with very high perforation capacity.			0	
8 Glue/skimming layer Beton AR1	Monocomponent cementitious mortar for bonding and smoothing thermal insulation panels and Betontherm system. • 4,0 - 6,0kg/m2 depending on the bonding technique. • 1,35-1,55kg/m2 per mm of thickness as skimming layer			0	
9 Net BetonGlass 360	The net has density 360 g/m3 and complies with the ETAG004 Guideline for ETICS (External Thermal Insulation Composite System), as certified by IFBT GmbH-MFPA Leipzig GmbH. It is suitable for internal and external armored thermal insulation (suitable for any type of BetonTherm product). 50 m2 rolls.			0	
10 Glue/skimming layer Beton AR1	Monocomponent cementitious mortar for bonding and smoothing thermal insulation panels and Betontherm system. • 4,0 - 6,0kg/m2 depending on the bonding technique. • 1,35-1,55kg/m2 per mm of thickness as skimming layer			0	
		IVA 22%	0	TAXABLE	0
			TOTAL AMOUNT		0

**Beton Wood®**

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.