



5. EXTERNAL WALLS

Reinforced thermal insulation **betontherm cork**

Reinforced thermal and acoustic insulation systems for external walls with cement bonded particle boards and cork panels Betontherm cork

Complete reinforced external thermal composite system with high performances Betontherm cork in cement bonded particle boards and cork panels, ETA certified. Complete supply of: insulation system, skimming and fixing accessories.

STRATIGRAPHY	DESCRIPTION	QUANTITY m ²	PRICE €/m ²	TOTAL	
1 Wall	Masonry, wood, or X-Lam wall				
2 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	
3 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	
4 Reinforced insulation composite system BetonTherm Cork	A cement bonded particle board is the high-density ($\delta=1350$ Kg/m3) layer and is made of Portland-type concrete conglomerate and debarked pine wood fiber, and it has the following thermo-dynamic characteristics: thermal conductivity coefficient $\lambda=0,26$ W/mK, specific heat capacity $c=1,88$ KJ/Kg K, coefficient of resistance to vapor penetration $\mu=22,6$ and fire reaction class A2, according to the standard EN 13501-1. The other panel constitutes the insulating layer and is made of super-compressed natural blond cork and it is characterized by the following thermo-dynamic characteristics: density $150\div160$ Kg/m3, thermal conductivity coefficient $\lambda=0,041$ W/mK, specific heat $c=1764$ J/Kg K, coefficient of resistance to vapor penetration $\mu=10\div13$ and fire reaction class 2, according to Circ. Min. Interno 14/09/1961, n. 91. The certified materials in Bio-building are breathable, resistant to molds, fungi etc. and suitable for installation in humid environments.			0	
5 BetonFix FIF-CS8 or BetonFix 6H-NT (depends on the support type)	ON MASONRY - BetonFix FIF-CS8 The composite screw minimizes the thermal bridge so that no traces appear on the façade. Less bit wear and puncture time thanks to a minimum installation depth of 35 mm in the support. The disc adapts perfectly to the insulation allowing the application of thin skimming layers. or ON WOOD - BetonFix 6H-NT Pre-assembled fastening with the Power-Fast certified screw. This guarantees a secure grip on the support material. The minimum screwing depth of 30 mm ensures fast assembly. It is not necessary to pre-drill.			0	
6 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	
7 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	
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	
		IVA 22%	0	TAXABLE	0
		TOTAL AMOUNT		0	