



## 5. INTERNAL WALLS

### Reinforced thermal insulation **betotherm cork**

Reinforced thermal and acoustic insulation systems for internal walls with cement bonded particle boards and cork panels Betotherm cork

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

STRATIGRAPHY	DESCRIPTION	QUANTITY m <sup>2</sup>	PRICE €/m <sup>2</sup>	TOTAL
1 Wall	Masonry, wood, or X-Lam wall			
2 Reinforced insulation composite system Betotherm Cork	<p>A cement bonded particle board is the high-density (<math>\delta=1350 \text{ Kg/m}^3</math>) 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 <math>\lambda=0,26 \text{ W/mK}</math>, specific heat capacity <math>c=1,88 \text{ KJ/Kg K}</math>, coefficient of resistance to vapor penetration <math>\mu=22,6</math> and fire reaction class A2, according to the standard EN 13501-1.</p> <p>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 <math>150\div 160 \text{ Kg/m}^3</math>, thermal conductivity coefficient <math>\lambda=0,041 \text{ W/mK}</math>, specific heat <math>c=1764 \text{ J/Kg K}</math>, coefficient of resistance to vapor penetration <math>\mu=10\div 13</math> and fire reaction class 2, according to Circ. Min. Interno 14/09/1961, n. 91.</p> <p>The certified materials in Bio-building are breathable, resistant to molds, fungi etc. and suitable for installation in humid environments.</p>			0
3 BetonFix FIF-CS8 or BetonFix 6H-NT (depends on the support type)	<p>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.</p> <p>or</p> <p>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.</p>			0
4 Glue/skimming layer Beton AR1	<p>Monocomponent cementitious mortar for bonding and smoothing thermal insulation panels and Betotherm system.</p> <ul style="list-style-type: none"> <li>• 4,0 - 6,0kg/m<sup>2</sup> depending on the bonding technique.</li> <li>• 1,35-1,55kg/m<sup>2</sup> per mm of thickness as skimming layer</li> </ul>			0
5 Net BetonGlass 360	The net has density 360 g/m <sup>3</sup> 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 m <sup>2</sup> rolls.			0
6 Glue/skimming layer Beton AR1	<p>Monocomponent cementitious mortar for bonding and smoothing thermal insulation panels and Betotherm system.</p> <ul style="list-style-type: none"> <li>• 4,0 - 6,0kg/m<sup>2</sup> depending on the bonding technique.</li> <li>• 1,35-1,55kg/m<sup>2</sup> per mm of thickness as skimming layer</li> </ul>			0
	IVA 22%	0	TAXABLE	0
		<b>TOTAL AMOUNT</b>		<b>0</b>

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.