

## 11a. SLABS

### Screed Betonstyr EPS with cement bonded particle boards



Complete dry system for screeds with BetonStyr EPS coupled panels in cement bonded particle boards and expanded polystyrene, and BetonWood boards

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Excellent construction system for high performance dry screeds.

STRATIGRAPHY	DESCRIPTION	QUANTITY m <sup>2</sup>	PRICE €/m <sup>2</sup>	AMOUNT	
1 Floor	Parquet, tiles, gres			0	
2 Cement bonded particle boards BetonWood tongue&groove	Pressed cement bonded particle boards with high compactness, density and hardness, resistant to fire, to atmospheric agents, with excellent thermal and acoustic insulation characteristics, with tongue&groove edges. The panels are made of Portland-type concrete conglomerate and debarked Pine wood fiber: high density $\delta=1350 \text{ Kg/m}^3$ , 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 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	
3 NF57 screws	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	
4 Coupled panels BetonStyr EPS	Beton Styr XPS is an extremely versatile product as it is suitable for many building applications, because the advantages of two materials are combined in one coupled: on one side a material with a high mass and high compressive strength, the BetonWood cement bonded particle boards high density, indispensable for obtaining an adequate thermal displacement and a great noise reduction, on the other an expanded polystyrene panel characterized by lightness, high insulating capacity and easy processing. The cement bonded particle board has the following thermodynamic characteristics: density $1350 \text{ Kg/m}^3$ , 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 expanded polystyrene is characterized by the following thermodynamic characteristics: density $15\div35 \text{ kg/m}^3$ , coefficient of thermal conductivity $\lambda=0,026\div0,036 \text{ W/mK}$ , specific heat $c=1,450 \text{ J/Kg K}$ , coefficient of resistance to vapor penetration $\mu=50\div100$ . Both materials are CE certified.			0	
5 Foundation	Existing or new building foundation				
6 Covering	Plasterboard or plaster				
		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.