

# Floor **betonwood** on cork

Complete floor system with Betonwood cement bonded particle boards on blond Cork Granules

# Beton Wood

Complete insulating floor system with high performances



## | DESCRIPTION

Complete dry building floor system on new and existing grounds which is composed in **BetonWood** cement bonded particle boards, blond granulated cork **Cork granules** and self-levelling **Betonultraplan**. Maximum durability over time is guaranteed.

On the existing pavement ground the system consists of a layer of **Betonwood** high density cement bonded particle boards. These panels are laid on top of a layer of blond cork granules **Cork granules** which possesses excellent properties of thermo-acoustic insulation and breathability. Above the dry floor system one or more **Betonultraplan** self-leveling layers are applied, to level and eliminate differences in thickness from 1 to 10 mm, ensuring high resistance to loads.

The stratigraphy consists in **Betonwood** cement bonded particle boards with high compression resistance and high density ( $1350 \text{ kg/m}^3$ ) installed on leveled granulated blond **Cork granules** which guarantees an excellent thermo-acoustic insulation and protection from mold and moisture.

Above the cement bonded particle boards, arranged in a staggered manner, one or more ultra-rapid hardening **Beton ultraplan** layers is applied, to level and eliminate thickness differences from 1 to 10 mm.

Solution with high thermal performance and simple application.

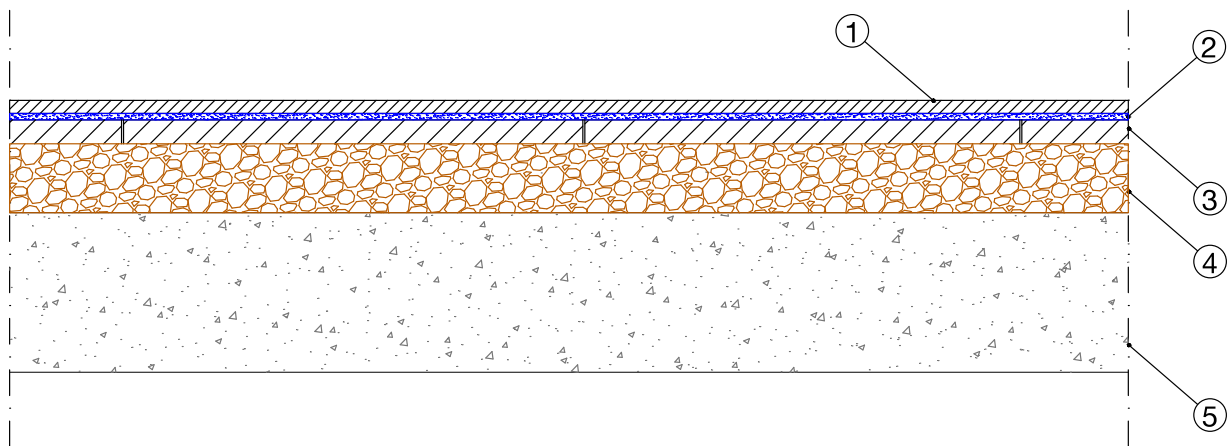
## Advantages

- Excellent floor breathability
- High acoustic insulation
- Available Betonwood panel thicknesses (from 8 to 40 mm)
- It creates a comfortable living climate;
- Ecologic material with controlled quality, recommended by Natureplus®;
- Hygroscopic material regulates humidity and gives us security over time
- Extreme ease of installation

For more informations about the uses and the installation, our offices are ready to answer your questions on [www.betowood.com](http://www.betowood.com)



## | STRATIGRAPHY



- 1 **Pavement**
- 2 **Self-leveling Beton Ultraplan** self-leveling and ultra-rapid hardening agent used in indoor environments to level and eliminate thickness differences from 1 to 10 mm of new or existing substrates, making them suitable for receiving any type of flooring in rooms where high resistance to loads and traffic is required .  
The consumption of BetonUltraplan is 1.6 kg/m<sup>2</sup> per millimeter of thickness.
- 3 **Cement bonded particle boards Betonwood** Each panel is made of Portland-type concrete conglomerate and debarked pine wood fiber with the following thermodynamic characteristics: 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 A2-fl-s1 fire reaction class, according to the standard EN 13501-1.  
The wood used in the processing of the panel comes from forests controlled and certified FSC.
- 4 **Blond Cork granules** The granulate is made of compressed natural blond cork. The material is characterized by the following thermodynamic characteristics: density  $200 \text{ Kg/m}^3$ , coefficient of thermal conductivity  $\lambda=0,037 \text{ W/mK}$ , specific heat  $c=1674 \text{ J/Kg K}$ , coefficient of resistance to vapor penetration  $\mu=10\div13$  and fire reaction class 2, according to the Circ. Min. Interno 14/09/1961, n. 91. The granulometries can be 3/12 mm and 3/5 mm.
- 5 **Ground** new building and/or existing grounds



## | SYSTEM'S PRODUCTS



**Betonultraplan** Self-leveling, ultra-rapid self-leveling smoothing. BetonUltraplan mixed with water gives rise to a very smooth mixture, easy to work, perfectly self-leveling, with high adhesion to the substrate and very quick drying.

It is applicable with pump up to distances of over 100 m.

It is applied in thicknesses up to 10 mm for each single hand, without undergoing any shrinkage, without forming cracks and cracks, until it reaches a high resistance to compression, flexion, imprint and abrasion.

The completion of BetonUltraplan is 1,6 kg/m<sup>2</sup> per millimeter of thickness.

BetonUltraplan is available in bags from 23 kg.



**BetonWood** The BetonWood cement bonded particle boards, with high density (1350 Kg/m<sup>3</sup>), made of Portland-type cement conglomerate and debarked Pine wood fiber. These panels have the following termo-dynamics characteristics: thermal conductivity coefficient  $\lambda=0,26$  W/mK, specific heat  $c=1,88$  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.

The panels size is ... mm and the thickness is ... 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.



**Cork Granules** is a completely natural insulating and leveling granulate, produced simply by crushing blond cork: there are no additives. It is characterized by excellent values of thermal insulation and breathability typical of natural cork, which reduce the formation of mold and moisture compared to traditional products; another characteristic of cork is that of guaranteeing an excellent noise reduction, making it an ideal product for the construction of impact sound-proof floors of the inter-floor slabs.

The material is characterized by the following thermodynamic characteristics: density 200 Kg/m<sup>3</sup>, coefficient of thermal conductivity  $\lambda=0,037$  W/mK, specific heat  $c=1674$  J/Kg K, coefficient of resistance to vapor penetration  $\mu=10\div13$  and fire reaction class 2, according to the Circ. Min. Interno 14/09/1961, n. 91. The granulometries can be 3/12 mm and 3/5 mm.

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## | CERTIFICATIONS

The floor system in BetonWood and self-leveling BetonUltraplan on granulated blond cork is produced with CE certified materials in accordance with current regulations.



GENERAL SECURITY INSURANCE GUARANTEE  
ON THE PRODUCT WITH CORRECT DOCUMENTED  
INSTALLATION WITH PHOTOGRAPHS

**Beton Wood**

