

Floor betonfiber+betonwood

Complete dry floor system with in Betonfiber coupled panels and BetonWood cement bonded particle boards

Beton Wood

Complete insulating floor system with high performances



| DESCRIPTION

Complete dry building floor system on new and existing grounds with high performances Floor **betonfiber + betonwood** guarantees the maximum durability over time is guaranteed, with international ETA certification.

The system for floors of new construction and renovation of existing floors consists of a first layer of stiffening **Betonfiber** insulation, plus an additional layer with high mechanical strength **BetonWood**. These must be arranged in a staggered manner compared to the underlying panels and fixed with **NF57** self-drilling screws.

Excellent system for excellent thermal and acoustic insulation of walkable floors.

Stratigraphy consists of **Betonfiber** coupled panels in cement bonded particle boards and natural insulating wood fiber, with an excellent compression resistance, high density (1350 kg/m³). Coupled with a high thermal displacement.

Above this stiffening / insulation layer must be fixed, with **NF57** self-drilling screws, a single layer of **BetonWood** cement bonded particle boards with high density, high mechanical resistance and certified fire class A2.

These panels must be installed in staggered way be laid in a staggered manner with respect to the arrangement of the **Betonfiber** panels of the lower layer.

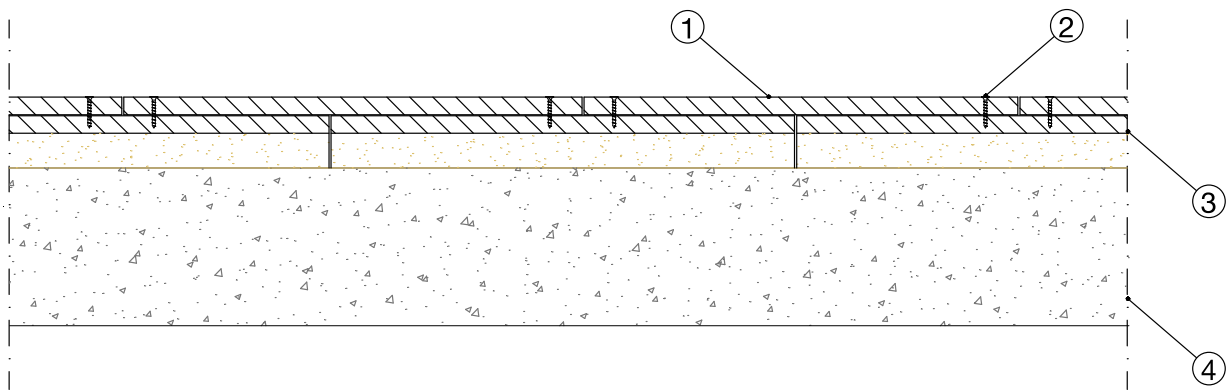
Advantages

- Excellent protection from cold, heat and noise;
- Excellent protection from summer heat thanks to its high thermal displacement;
- High acoustic insulation thanks to the porosity of the insulating panels;
- Available thicknesses from 8+20 to 20+160 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.

For more informations about the uses and the installation, our offices are ready to answer your questions on www.betowood.com



| STRATIGRAPHY



- 1 **Cement bonded particle boards BetonWood** | thickness 16 -18 mm made by Portland cement and wood fibers, has an high density of 1350 kg/m^3 and an excellent compression resistance equal to $9.000,00 \text{ Kpa}$. These particular boards guarantee an optimal building solution to obtain high levels of thermal displacement, thanks to their high density which makes them also suitable for self-supporting dry screeds, radiant floors and stiffening structures.
- 2 **Screws NF57** 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.
- 3 **Betonfiber** Beton fiber is an ideal product for thermo-acoustic insulation in green building, because the advantages of two materials are combined in a single coupled: on one side a material with a high mass and high compressive strength, the BetonWood cement bonded particle board high density, which is essential to obtain an adequate thermal displacement and a great noise reduction, on the other a totally natural Fibertherm fiber wood panel, characterized by lightness, high insulating capacity and ease of processing.
- 4 **Ground** new building and/or existing grounds



| SYSTEM'S PRODUCTS



BetonWood The BetonWood 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 $\lambda=0,26$ 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.



Screws NF 57 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.



BetonFiber BetonFiber is ideal for thermo-acoustic insulation, with a rigid panel, wooden or traditional building constructions. In a single panel, the advantages of wood fiber, a natural insulator with high thermal performance, are combined with those of cement bonded particle boards, a high density natural material, which allows excellent results in thermal displacement and acoustic insulation.

Insulating panels BetonFiber in cement bonded particle boards and wood fiber panels. This panels is made by two coupled layer, one characterized by the extremely high density (1350 Kg/m³) BetonWood cement bonded particle board and the other is a natural insulating wood fiber panel type FiberTherm. Betonfiber:

- can be used as an insulation for floors that require a high mass due to thermal displacement and acoustic abatement;
- the cement-wood panel protects the wood fiber from moisture and fire (class A2), the entire panel is walkable, therefore suitable for laying on horizontal surfaces;
- has very high compressive strength (9,000.00 KPa).

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| CERTIFICATIONS

The floor insulation system BetonFiber and BetonWood cement bonded particle boards 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

