

# Floor wood fiber base plus

Complete floor system with wood fiber panels Fibertherm Base, concrete pour and cement bonded particle boards Betonwood

# Beton Wood

Complete insulating floor system with high performances



## | DESCRIPTION

Complete dry building floor system on new and existing grounds which is composed by wood fiber panels with high density (250kg/m<sup>3</sup>) and excellent compression resistance (150 kPa) Fibertherm Base and BetonWood cement bonded particle boards with density 1350kg/m<sup>3</sup>. Ecological, natural materials, maximum durability over time is guaranteed, with international ETA certification.

On the existing grounds, the system is composed by a single layer of wood fiber panels type FiberTherm Base density 250 kg/m<sup>3</sup> waterproofed with our anti-steam barrier type FiberTherm multi UDB on the above and lower side. All the system is protects with a concrete pour and cement bonded particle boards type BetonWood with high density 1350 kg/m<sup>3</sup> and excellent mechanical resistance.

The stratigraphy consists of panels made of highly insulating FiberTherm Base natural and ecological wood fiber, FSC certified, which contributes to the creation and maintenance of a healthy and mild climate in living spaces.

The waterproofing is guaranteed by the laying of two layers of FiberTherm multiUDB above the insulating layer in wood fiber and under it in contact with the existing foundation.

All the system is protects with a concrete pour and an high density cement bonded particle boards type BetonWood. It has an excellent compression resistance, and it must be arranged in a staggered manner.

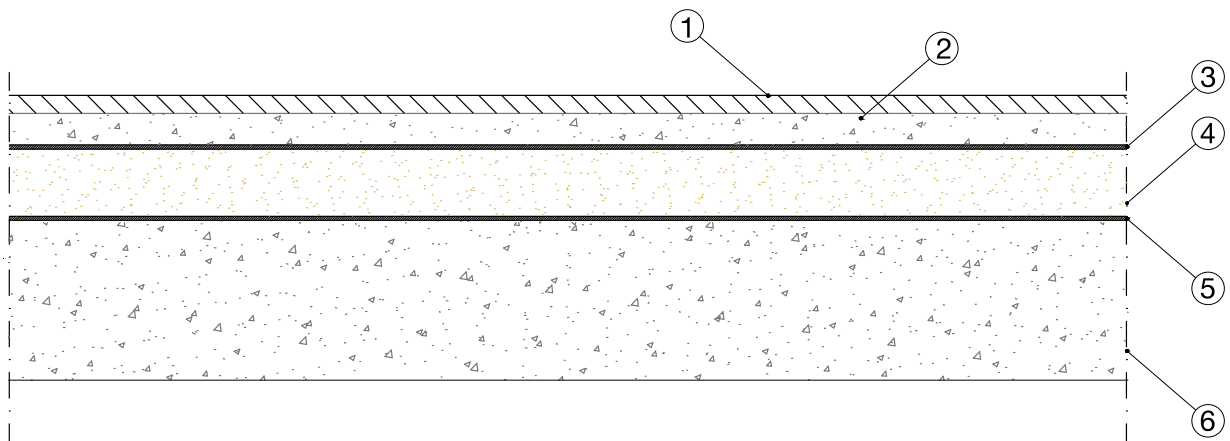
## Advantages

- 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 20 to 100 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](http://www.betowood.com)



## | STRATIGRAPHY



- 1 **Cement bonded particle boards BetonWood** made by Portland cement and wood fibers, has an high density of 1350 kg/m<sup>3</sup> and an excellent compression resistance equal to 9.000,00 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 **Concrete pour** concrete pour
- 3 **Anti-steam barrier Fibertherm multi UDB** Multi-layer polypropylene (PP) sealing membrane with high breathable power and excellent tear resistance
- 4 **Wood fiber Fibertherm Base** FiberTherm Base wood fiber with high density 250 kg/m<sup>3</sup> is a rigid insulating panel with an excellent compression resistance (150KPa) suitable to the thermal and acoustic insulation of floor, attics and roofs. This is a panel produced with wet process, recyclable and made exclusively with wood from controlled forests in compliance with the FSC guidelines. Guarantees the creation of environments with a high living comfort as well as a truly healthy indoor atmosphere.
- 5 **Anti-steam barrier Fibertherm multi UDB** Multi-layer polypropylene (PP) sealing membrane with high breathable power and excellent tear resistance
- 6 **Ground** new building and/or existing grounds



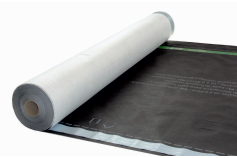
## | SYSTEM'S PRODUCTS



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



**FiberTherm multiUDB** Multi-layer polypropylene (PP) sealing membrane with high breathable power and excellent tear resistance. Density  $160 \text{ g / m}^2$



**FiberTherm Base** The FiberTherm Base wood fiber panel is a rigid thermal insulation completely ecological ideal to be used in dry and wet screeds, and walkable floors thanks to its high compression resistance ( $150 \text{ kPa}$ ), to its high density  $250 \text{ kg/m}^3$ , and to its properties of walking noise insulation. The panel is free of any type of toxic substance, it is also recyclable and made exclusively with wood from controlled forests in compliance with the FSC guidelines.

It is produced with a wet system, according to EN 13171 and EN 13986 standards under constant quality control and is characterized by the following thermodynamic characteristics: density approx.  $250 \text{ Kg/m}^3$ , thermal conductivity coefficient  $\lambda=0,048 \text{ W/mK}$ , specific heat  $c=2100 \text{ J/Kg K}$ , coefficient of resistance to vapor penetration  $\mu=5$  and fire reaction class E, according to the standard EN 13501-1.

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## | CERTIFICATIONS

The wood fiber floor insulation system FiberTherm Base plus with wood fiber Fibertherm Base and cement bonded particle boards BetonWood 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**

