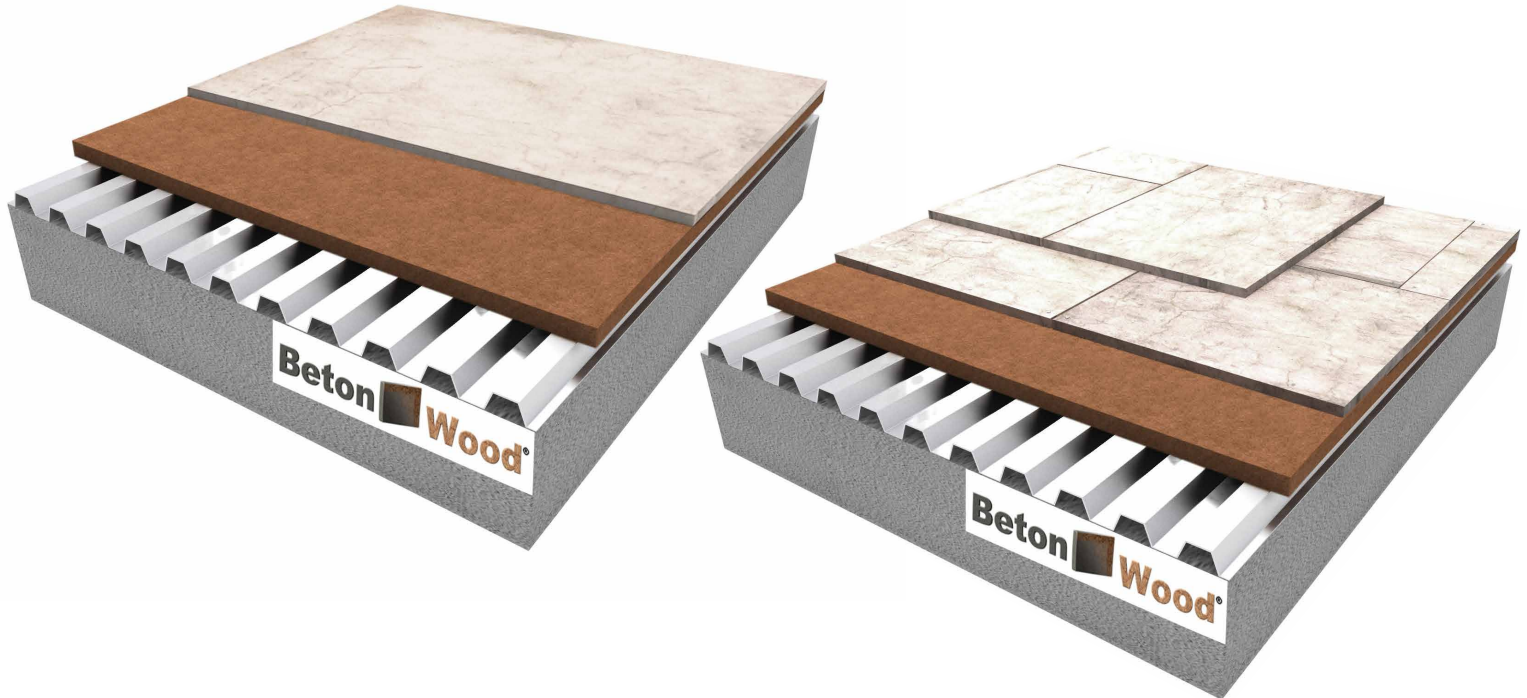


# Metal screed **betonwood** + base

Complete system screed with Betonwood cement bonded particle boards and FiberTherm Base wood fiber on corrugated metal sheet

# Beton Wood

Complete insulating screed system with high performances



## DESCRIPTION

Complete dry screed system on corrugated metal sheet or metal frames made in thermal insulating high density wood fiber panels and cement bonded particle boards. The wood fiber panels type **FiberTherm Base** has an high density  $250\text{kg/m}^3$  and compression resistance equal to  $150\text{ kPa}$ ; it is fixed with screws or plugs directly on the corrugated metal sheet or on metal frames; **BetonWood** cement bonded particle boards with high density  $1350\text{kg/m}^3$  and compression resistance equal to  $9000\text{ kPa}$ , are laid over the insulating material to ensure the construction of an excellent dry screed.

Maximum durability over time is guaranteed, with international ETA certification.

The stratigraphy can be characterized by a single layer or (for greater resistance needs) a double layer of **BetonWood** cement bonded particle boards, to be laid and fixed on the insulating layer in **FiberTherm Base** wood fiber and subsequently on the corrugated metal sheet.

If you decide to use two layers of **BetonWood** cement bonded particle boards, is necessary to know that these must be laid crosswise, therefore the panels of the second layer must be positioned at  $90^\circ$  with respect to the panels of the first layer. We recommend viewing the figures above.

The panels must be fixed with **NF60** screws near the corners and the center of each panel.

Fix the second layer to the first is necessary.

High acoustic performance, naturalness and simplicity of execution.

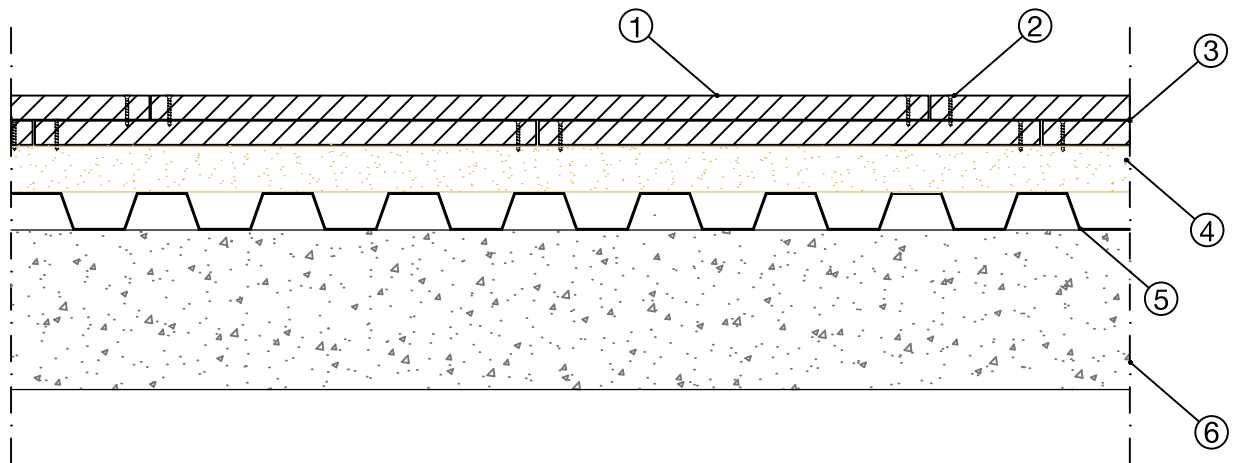
## Advantages

- Excellent mechanical resistance
- Excellent compression strength
- Fire reaction class A2-fl-s1
- 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 **Cement bonded particle boards BetonWood (second layer)** made by Portland cement and wood fibers, has an high density of  $1350 \text{ kg/m}^3$  and an excellent compression resistance equal to  $9.000,00 \text{ Kpa}$ . The second layer must be fixed to the first with the screws NF60 type (see point 2).
- 2 **Screws type NF60** Self-drilling screws for fixing BetonWood N cement bonded particle boards directly to the insulating wood fiber panel Fibertherm Base. Number 9 screws are necessary for fixing each panel.
- 3 **Cement bonded particle boards BetonWood (first layer)** made by Portland cement and wood fibers, has an high density of  $1350 \text{ kg/m}^3$  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.
- 4 **Wood fiber Fibertherm Base** FiberTherm Base wood fiber with high density  $250 \text{ kg/m}^3$  is a rigid insulating panel with an excellent compression resistance ( $150 \text{ KPa}$ ) 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 **Metal sheet** corrugated metal sheet
- 6 **Screed** cement or reinforced concrete



## | SYSTEM'S PRODUCTS



**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 kPa), to its high density 250 kg/m<sup>3</sup>, 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 Kg/m<sup>3</sup>, thermal conductivity coefficient  $\lambda=0,048$  W/mK, specific heat  $c=2100$  J/Kg K, coefficient of resistance to vapor penetration  $\mu=5$  and fire reaction class E, according to the standard EN 13501-1.



**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 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 60** 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. Drill bit that allows a perfect drilling capacity even on high sheet thicknesses.

BETONWOOD Srl

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## | CERTIFICATIONS

Complete dry screed system on corrugated metal sheet with one or double layer of BetonWood cement bonded particle boards and FiberTherm Base wood fiber is produced with CE certified materials according to the regulations in force.



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

**Beton Wood**

