

# Metal screed **betonwood** + cork

Complete system screed with Betonwood cement bonded particle boards and thin mat of blond Cork Rolls 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 by **BetonWood cement bonded particle boards** with a density of 1350 kg/m<sup>3</sup> and a thin mat of **Cork Rolls** thin mat. Maximum durability over time is guaranteed, with international ETA certification.

The corrugated metal sheet can be laid on a metal frame structure or simply on concrete grounds; the system consists in two layers of **BetonWood cement bonded particle boards** each of them with staggered arrangement and fixed with **NF60** screws type. On the corrugated sheet is laid a thin mat in **CorkRolls** isolating blond cork. The two cement bonded particle boards layers provide for the arrangement of the panels in a crossed manner as shown in the figure.

High acoustic performance, naturalness and simplicity of execution.

The stratigraphy can be characterized by a double layer of **BetonWood** cement bonded particle boards, to be laid directly on the corrugated metal sheet or metal frame and a thin insulating mat of un tapping sottile isolante in **CorkRolls** compressed agglomerate of blond cork.

It is necessary to know that the two layers of **BetonWood** cement bonded particle boards must be laid crosswise, therefore the panels of the second layer must be positioned at 90 ° with respect to the panels of the first layer.

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.

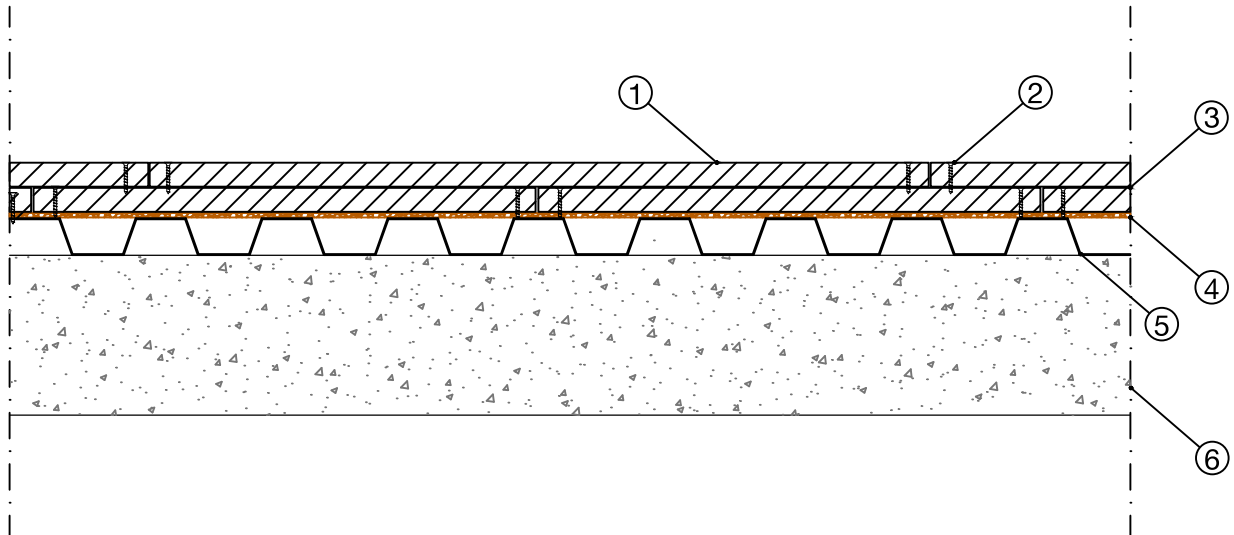
### Advantages

- 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 **Thin blond cork roll** thickness 3mm the insulating layer between the plate and the cement-bonded panels is made with the laying of rolls with a thickness of 3 mm of CorkRolls blond cork. Cork is a very insulating and sound-absorbing material when we have a noticeable improvement in thermal and acoustic insulation. In addition it does not make mold and is suitable for particularly humid environments.
- 5 **Metal sheet** corrugated metal sheet
- 6 **Screed** cement or reinforced concrete



## 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 termo-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.



**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.



**Cork Roll** is an insulating roll in blond cork characterized by excellent thermal insulation and breathability values typical of natural cork, which reduce the formation of mold and moisture compared to traditional products; Another characteristic characteristic of cork is that of guaranteeing an excellent noise reduction, making it an ideal product for the construction of impact soundproofing floors of the inter-floor slabs, thanks also to its high compressive strength.

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 thin CorkRolls blond cork mat 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**

