Roof therm A bitumfiber plus





DESCRIPTION

The complete natural insulating system for wood roof with high performances Roof Solution A bitumfiber plus is ideal for home wellness and comfort in all climatic zones.

The Roof SolutionA bitumfiber plus system is characterized by excellent thermal , acoustic and breathability insulation values which reduces mold and moisture formation better than the traditional systems. In addition, the BetonWood cement bonded particle boards layer provides high compressive strength (9.000,00 KPa) and excellent fire resistance (classe

The materials used are completely natural and made with sustainable raw materials and life cycles.

The stratigraphy consists of FSC® certified FiberTherm wood fiber panels with a density of 160Kg/m³ and a single layer of Bitumfiber bituminous wood fiber panels with a density of 280Kg/m³, between the matchboard and the wood fiber insulation the FiberTherm multi membra5 perfectly airtight steam brake is applied, while on the external side between the roof tile layer and the BetonWood cement bonded particle boards thick 16-22 mm, FiberTherm multi UDB must be installed, a high performance sheath, breathable and UV resistant.

The system is applicable for roofs with a minimum slope of 15° and up to 900 m s.l.m.

Advantages

- Construction permeable to steam and resistant to driving rain
- For highly inclined roofs with slopes starting at 15°, resistant to UV rays
- Complete system: insulation, under cloth and waterproofing without condensation
- Excellent protection against cold and summer heat, improved acoustic insulation thanks to the porosity of the panels
- High performance thanks to rational installation and without waste

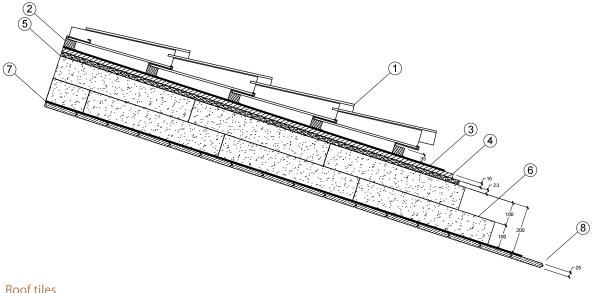
For more informations about the uses and the installation, our offices are ready to answer your questions on www.betonwood.com





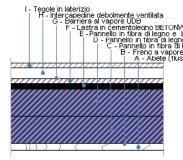


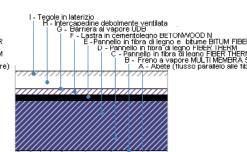
STRATIGRAPHY

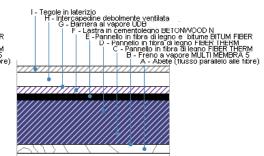


- Roof tiles
- Support-spacer type Aercoppo An element, weighing 36 g, made of polypropylene copolymer stabilized to U.V.A. rays, with the function of raising and anchoring, to be applied on the back of each tile roof. It creates a true ventilation chamber of 600 cm²/m underlay, raising the channel tile only 3.5 cm from the laying surface.
- 3) FiberTherm multi UDB High airtight sealant vapor barrier for renovation solutions. Extreme ease of installation for safe and simple use. It has an integrated adhesive strip to secure joints and can be used as a temporary cover. Size: 1,50 m x 50 m Roll surface: 75m² Weight approx.160 g/m²
- Cement bonded particle baords BetonWood | thickness 16 mm High density panels (1.350 Kg/m³), with high compressive strenght (9.000,00 KPa) and A2 fire resistance class. Depending on the needs of thermal displacement, the thickness can be varied with 20 mm thick panels.
- Bituminous wood fibe Bitumfiber 280 | thickness 23 mm Panel in bituminous wood fiber density 280 Kg/m³ with high compressive strenght and excellent insulating properties. Panel dimensions 2400 x 1200 mm. Edge with sharp edge
- 6 Wood fiber FiberTherm 160 | thickness 100+100 mm Panel in wood fiber density 160 Kg/m³ is offered as an excellent insulation for both the summer heat and the winter frost. Depending on requirements, the thickness can be varied with panels with thickness 80 + 80 mm or 60 + 60 mm. Panel dimensions 1350 x 600 mm. Edge with sharp edge
- FiberTherm multi membra5 Steam brake for better airtightness on the outer side of the roof, resistant to UVrays, excellent adhesion properties and tear resistance. Size: 1,50 mx50 m Roll surface: 75m² Weight approx.110 g/m²
- Matchboards | thickness 25 mm









ZONE C

Solution AB+ - type C1

FiberTherm 100 + 100 mm Bitumfiber 23 mm BetonWood 16 mm

 $\begin{tabular}{ll} Transmittance & U=0,160\,W\,/\,(m^2K)\\ Resistance & R=6,262\,(m^2K)\,/\,W\\ Displacement & 25,06\ hours \end{tabular}$

Climatic zone C

| Solution AB+ - type C2

FiberTherm 80 + 80 mm Bitumfiber 23 mm BetonWood 16 mm

Transmittance $U=0,192 \text{ W} / (\text{m}^2\text{K})$ Resistance $R=5,210 \text{ (m}^2\text{K)} / \text{W}$ Displacement 22,21 hours

Climatic zone C

Solution AB+ - type C3

FiberTherm 60 + 60 mm Bitumfiber 23 mm BetonWood 22 mm

Transmittance $U=0,239 \text{ W} / (\text{m}^2\text{K})$ Resistance $R=4,178 \text{ (m}^2\text{K)} / \text{W}$ Displacement 19,50 hours

Climatic zone C

ZONE D

Solution AB+ - type D1

FiberTherm 100 + 100 mm Bitumfiber 23 mm BetonWood 16 mm

 $\begin{array}{ll} Transmittance & U=0,160 \ W \ / \ (m^2 K) \\ Resistance & R=6,262 \ (m^2 K) \ / \ W \\ Displacement & 25,06 \ hours \\ \end{array}$

Climatic zone D

Solution AB+ - type D2

FiberTherm 80 + 80 mm Bitumfiber 23 mm BetonWood 16 mm

Transmittance $U=0,192 \text{ W} / (\text{m}^2\text{K})$ Resistance $R=5,210 \text{ (m}^2\text{K)} / \text{W}$ Displacement 22,21 hours

Climatic zone D

Solution AB+ - type D3

FiberTherm 60 + 60 mm Bitumfiber 23 mm BetonWood 22 mm

Transmittance $U=0,239 \text{ W} / (\text{m}^2\text{K})$ Resistance $R=4,178 \text{ (m}^2\text{K)} / \text{W}$ Displacement 19,50 hours

Climatic zone D

ZONE E

Solution AB+ - type E1

FiberTherm 100 + 100 mm Bitumfiber 23 mm BetonWood 16 mm

Transmittance $U=0,160 \text{ W} / (\text{m}^2\text{K})$ Resistance $R=6,263 \text{ (m}^2\text{K)} / \text{W}$ Displacement 25,06 hours

Climatic zone E

| Solution AB+ - type E2

FiberTherm 80 + 80 mm Bitumfiber 23 mm BetonWood 16 mm

 $\begin{tabular}{ll} Transmittance & U=0.192\,W\,/\,(m^2K) \\ Resistance & R=5.211\,(m^2K)\,/\,W \\ Displacement & 22.21\ hours \\ \end{tabular}$

Climatic zone E

Solution AB+ - type E3

FiberTherm 60 + 60 mm Bitumfiber 23 mm BetonWood 22 mm

 $\begin{tabular}{ll} Transmittance & U=0,239\,W\,/\,(m^2K) \\ Resistance & R=4,179\,(m^2K)\,/\,W \\ Displacement & 19,50\ hours \\ \end{tabular}$

Climatic zone E









SYSTEM'S PRODUCTS



FiberTherm multiUDB High airtight sealant vapor barrier for renovation solutions. Extreme ease of installation for safe and simple use. It has an integrated adhesive strip to secure joints and can be used as a temporary cover. Density 160 g / m².



BetonWood The panels are made of Portland-type concrete conglomerate and high-density debarked Pine wood fibe (δ =1350 Kg/m³) and with the following thermodynamic characteristics: coefficient of thermal conductivity λ =0,26 W/mK, specific heat c=1.88 KJ / Kg K, coefficient of resistance to vapor penetration μ =22,6 and fire reaction class A2-fl-s1, according to EN 13501-1.

The dimensions of the panel correspond to ... mm for a thickness of ... 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.



Bitumfiber The bituminous wood fiber panel is the optimal combination for high strength in dry and wet screed construction. The material is characterized by the following thermodynamic characteristics: density approx. 280 (+20-10) kg/m³, coefficient of thermal conductivity λ =0,050 W/mK, coefficient of resistance to vapor penetration μ =5, specific heat c=2100 J/Kg K and reaction to fire class E, according to EN 13501-1 standard, CE certified. The wood used in the processing of the panels comes from forests controlled by FSC reforestation cycles.



FiberTherm The panels are made of wood ber with density δ =160 Kg/m³, are produced with a wet system, in compliance with EN 13171 and EN 13986 standards under constant quality control.

The material is characterized by the following thermodynamic characteristics: coefficient of thermal conductivity λ =0.039 W/mK, specific heat c=2100 J/Kg K, coefficient of resistance to vapor penetration μ =5 and reaction to fire class E, according to EN 13501-1 standard.

The dimensions of the panels correspond to ... mm for a thickness of ... mm. The wood used in the processing of the panels comes from forests controlled by FSC reforestation cycles.



FiberTherm multi membra 5 Steam brake for better airtightness on the outer side of the roof, resistant to UVrays, excellent adhesion properties and tear resistance.

BETONWOOD Srl

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CERTIFICATIONS

The Solution A bitumfiber plus roof insulation system is produced with CE certified materials in accordance with the regulations in force.

The certificates of the individual products are available on request.



