Roof therm B bitumfiber





DESCRIPTION

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

The Roof SolutionB bitumfiber system is characterized by excellent thermal, acoustic and breathability insulation values which reduces mold and moisture formation better than the traditional systems.

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 below the roof tiles 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

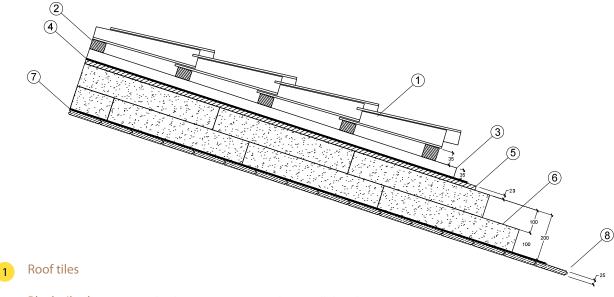
For more informations about the uses and the installation, our offices are ready to answer your questions on www.betonwood.com







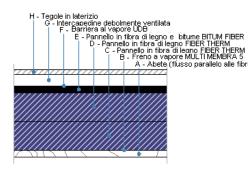
STRATIGRAPHY

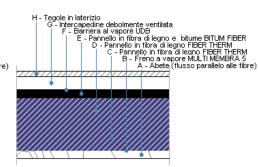


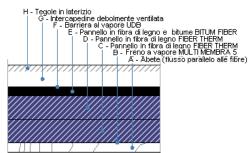
- Block-tiles battes Wooden battens to support tiles, parallel to the eaves line and with a pitch related to the roof tile.
- Battens for ventilation Battens perpendicular to the gutter line directly on the insulating panel, the strips will have suitable fastening all'assito adhesion with the underlying wood, the distance of the strips is to be assessed according to the load of its own structure and the external loading actions. Thanks to the air gap, the air enters the eaves and rises to the surface, absorbing most of the heat produced by the sun's rays.
- 4 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
- 5 Bituminous wood fiber 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
- 7 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
- 8 Matchboards | thickness 25 mm









ZONE C

Solution BB - type C1

FiberTherm 100 + 100 mm Bitumfiber 23 mm

Transmittance $U=0,161 \text{ W} / (\text{m}^2\text{K})$ Resistance $R=6,206 \text{ (m}^2\text{K)} / \text{W}$ Displacement 24,36 hours

Climatic zone C

| Solution BB - type C2

FiberTherm 80 + 80 mm Bitumfiber 23 mm

Transmittance $U = 0.194 \text{ W} / (\text{m}^2\text{K})$ Resistance $R = 5.154 \text{ (m}^2\text{K)} / \text{W}$ Displacement 21,52 hours

Climatic zone C

Solution BB - type C3

FiberTherm 60 + 60 mm Bitumfiber 23 mm

 $\begin{array}{ll} Transmittance & U=0,244\,W\,/\,(m^2K) \\ Resistance & R=4,101\,(m^2K)\,/\,W \\ Displacement & 19,06\,hours \end{array}$

Climatic zone C

ZONE D

Solution BB - type D1

FiberTherm 100 + 100 mm Bitumfiber 23 mm

Transmittance $U=0,161 \text{ W} / (\text{m}^2\text{K})$ Resistance $R=6,206 \text{ (m}^2\text{K)} / \text{W}$ Displacement 24,36 hours

Climatic zone D

| Solution BB - type D2

FiberTherm 80 + 80 mm Bitumfiber 23 mm

Transmittance $U=0,194 \text{ W} / (\text{m}^2\text{K})$ Resistance $R=5,154 \text{ (m}^2\text{K)} / \text{W}$ Displacement 21,52 hours

Climatic zone D

Solution BB - type D3

FiberTherm 60 + 60 mm Bitumfiber 23 mm

Transmittance $U = 0.244 \text{ W} / (\text{m}^2\text{K})$ Resistance $R = 4,101 \text{ (m}^2\text{K)} / \text{W}$ Displacement 19,06 hours

Climatic zone D

ZONE E

Solution BB - type E1

FiberTherm 100 + 100 mm Bitumfiber 23 mm

Transmittance $U = 0.161 \text{ W} / (\text{m}^2\text{K})$ Resistance $R = 6.207 \text{ (m}^2\text{K)} / \text{W}$ Displacement 24.37 hours

Climatic zone E

Solution BB - type E2

FiberTherm 80 + 80 mm Bitumfiber 23 mm

Transmittance $U=0,194 \text{ W} / (\text{m}^2\text{K})$ Resistance $R=5,155 \text{ (m}^2\text{K)} / \text{W}$ Displacement 21.52 hours

Climatic zone E

Solution BB - type E3

FiberTherm 60 + 60 mm Bitumfiber 23 mm

 $\begin{array}{ll} Transmittance & U=0,244\,W\,/\,(m^2K) \\ Resistance & R=4,102\,(m^2K)\,/\,W \end{array}$

Displacement 19,06 hours

Climatic zone E









| SYSTEM'S PRODUCTS



FiberTherm multiUDB Membrana sigillante in polipropilene (PP) multi-strato non-tessuto ad alta traspirabilità ed ottima resistenza allo strappo. Densità 160 g / m²



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

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.

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CERTIFICATIONS

The Solution B bitumfiber 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.



