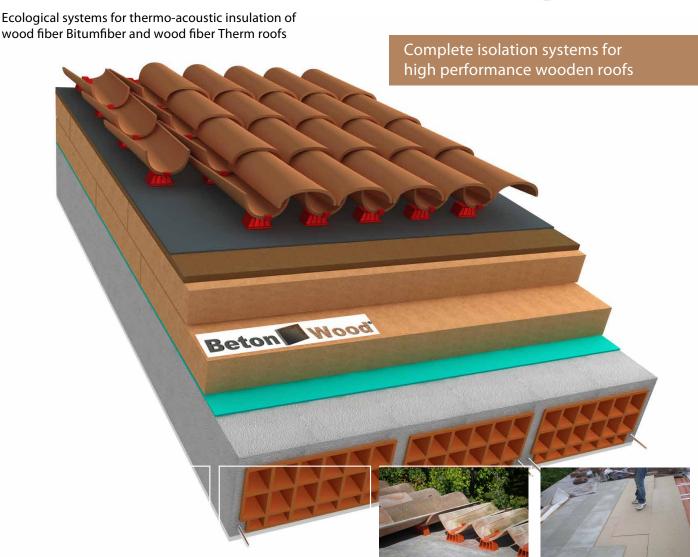
# Roof therm C bitumfiber

DESCRIPTION





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

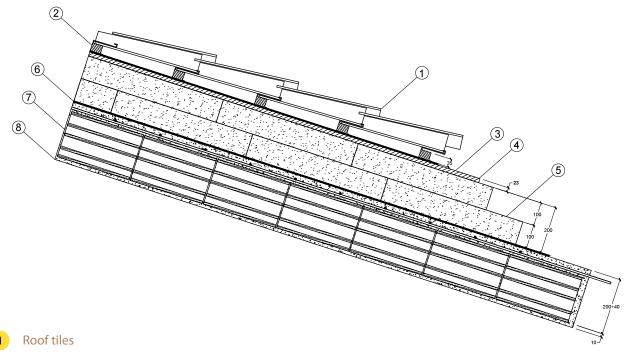
For more informations about the uses and the installation, our offices are ready to answer your questions on www.betonwood.com







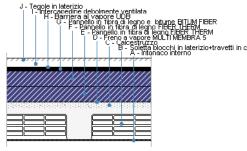
#### STRATIGRAPHY

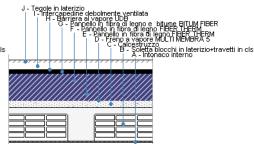


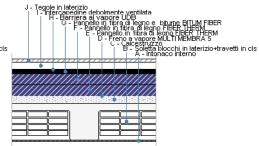
- 2 Support-spacer type Aercoppo An element, weighing 36 g, made of polypropylene copolymer stabilized to U.V.A. rays, with the function of raising and anchoring, to be applied on the back of each tile roof. It creates a true ventilation chamber of 600 cm<sup>2</sup>/m underlay, raising the channel tile only 3.5 cm from the laying surface.
- 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: 75m<sup>2</sup> Weight approx.160 g/m<sup>2</sup>
- 4 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
- 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
- 6 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: 75m<sup>2</sup> Weight approx.110 g/m<sup>2</sup>
- 7 Concrete roof structure | thickness 200+40 mm
- 8 Plaster | thickness 10 mm









#### **ZONE C**

## Solution CB - type C1

FiberTherm 100 + 100 mm Bitumfiber 23 mm

Transmittance  $U=0.156 \text{ W} / (\text{m}^2\text{K})$ Resistance  $R=6.425 \text{ (m}^2\text{K)} / \text{W}$ Displacement 31,46 hours

Climatic zone C

## | Solution CB - type C2

FiberTherm 80 + 80 mm Bitumfiber 23 mm

Transmittance  $U=0.186 \text{ W} / (\text{m}^2\text{K})$ Resistance  $R=5,373 \text{ (m}^2\text{K)} / \text{W}$ Displacement 29,02 hours

Climatic zone C

## Solution CB - type C3

FiberTherm 60 + 60 mm Bitumfiber 23 mm

Transmittance  $U=0.231 \text{ W} / (\text{m}^2\text{K})$ Resistance  $R=4,320 \text{ (m}^2\text{K)} / \text{W}$ Displacement 26,16 hours

Climatic zone C

#### ZONE D

#### Solution CB - type D1

FiberTherm 100 + 100 mm Bitumfiber 23 mm

Transmittance  $U=0.156 \text{ W} / (\text{m}^2\text{K})$ Resistance  $R=6.425 \text{ (m}^2\text{K)} / \text{W}$ Displacement 31,47 hours

Climatic zone D

## | Solution CB - type D2

FiberTherm 80 + 80 mm Bitumfiber 23 mm

Transmittance  $U=0.186 \text{ W} / (\text{m}^2\text{K})$ Resistance  $R=5,373 \text{ (m}^2\text{K)} / \text{W}$ Displacement 29,02 hours

Climatic zone D

# Solution CB - type D3

FiberTherm 60 + 60 mm Bitumfiber 23 mm

Transmittance  $U=0.231 \text{ W} / (\text{m}^2\text{K})$ Resistance  $R=4,320 \text{ (m}^2\text{K)} / \text{W}$ Displacement 26,16 hours

Climatic zone D

#### **ZONE E**

## Solution CB - type E1

FiberTherm 100 + 100 mm Bitumfiber 23 mm

Transmittance  $U=0,156 \text{ W} / (\text{m}^2\text{K})$ Resistance  $R=6,425 \text{ (m}^2\text{K)} / \text{W}$ Displacement 31.46 hours

Climatic zone E

## Solution CB - type E2

FiberTherm 80 + 80 mm Bitumfiber 23 mm

Transmittance  $U=0,186 \text{ W}/(\text{m}^2\text{K})$ Resistance  $R=5,373 \text{ (m}^2\text{K)}/\text{W}$ Displacement 29.02 hours

Climatic zone E

# Solution CB - type E3

FiberTherm 60 + 60 mm Bitumfiber 23 mm

 $\begin{array}{ll} Transmittance & U=0,231 \ W \ / \ (m^2 K) \\ Resistance & R=4,320 \ (m^2 K) \ / \ W \end{array}$ 

Displacement 26,15 hours

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 / m<sup>2</sup>.



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  $\lambda$ =0,050 W/mK, coefficient of resistance to vapor penetration  $\mu$ =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  $\delta$ =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  $\lambda$ =0.039 W/mK, specific heat c=2100 J/Kg K, coefficient of resistance to vapor penetration  $\mu$ =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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TCB - ST R.18.9

#### CERTIFICATIONS

The Solution C 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.



