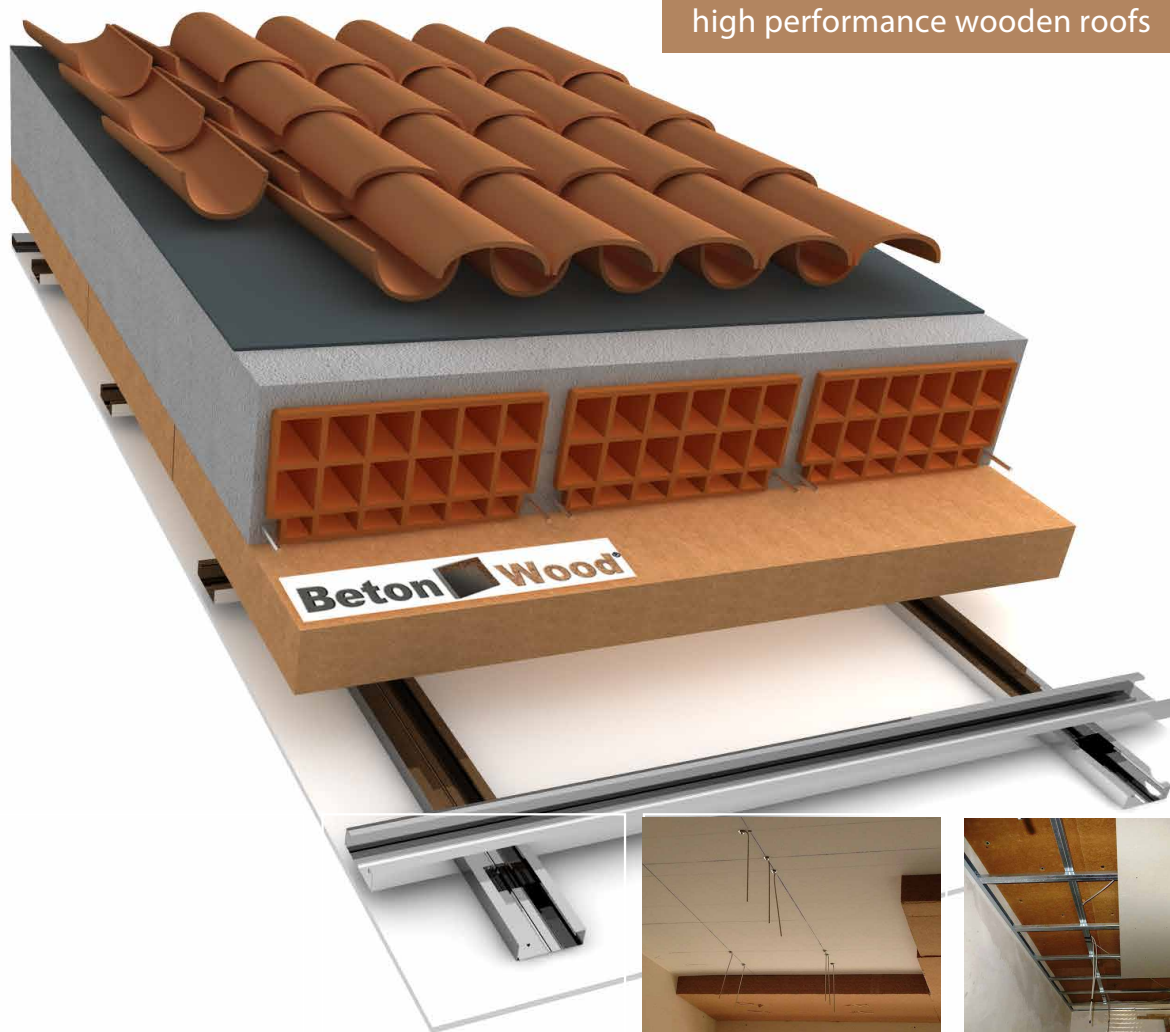


Roof therm F

Ecological systems for thermo-acoustic insulation of high performance wood fiber countertops

Beton Wood

Complete isolation systems for high performance wooden roofs



| DESCRIPTION

Complete system of natural insulation for high performance latero cement roofs, Roof Solution therm F is designed to obtain maximum comfort in renovating existing structures with non-breathable sheaths on the outside.

The Roof Solution therm F system is proposed as an internal rehabilitation of an existing roof. It is characterized by excellent values of thermal, acoustic and breathability that reduce the formation of mold and moisture compared to traditional systems.

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

The stratigraphy consists of high-quality and FSC® certified Fibertherm wood fiber panels with density 160Kg/m³ held in direct contact with the soffit of the floor by metal hangers for false ceilings, leaving a space below variable thickness for the passage of cables and systems between insulating panels and the metal structure that acts as a frame of the false ceiling in plasterboard.

The roof is breathable inward and allows maximum flexibility in renovation.

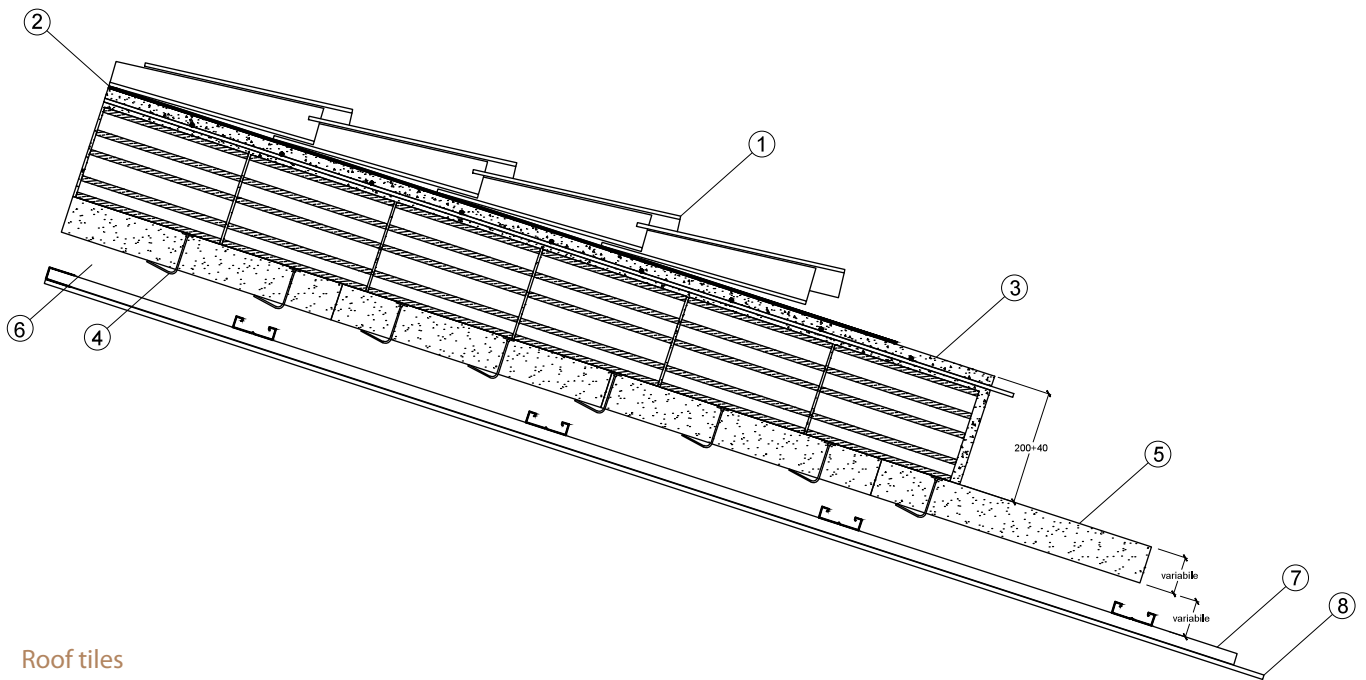
Advantages

- Ecological recovery of existing sub-layers
- Natural materials for the healthiness of the home
- Important acoustic improvement
- Simple and completely dry solution
- Suitable for all inclines and floor types

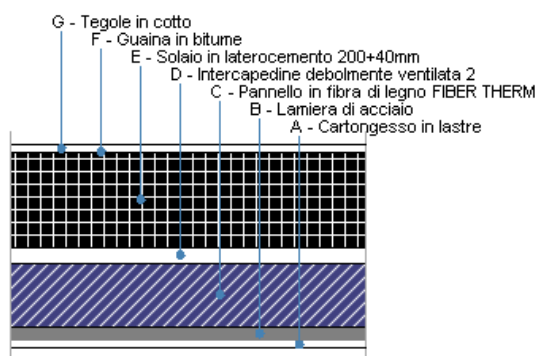
For more informations about the uses and the installation, our offices are ready to answer your questions on www.betonwood.com



STRATIGRAPHY



- 1 **Roof tiles**
- 2 **Bituminous sheath** elastoplastomeric compound waterproofing membrane (BPP), characterized by a cold exibility of $-5^{\circ}\text{C} / -10^{\circ}\text{C} / -15^{\circ}\text{C}$, reinforced polyester reinforced. The product has a good mechanical strength, considerable dimensional stability and is not sensitive to seasonal climatic variations.
- 3 **Concrete structure roof** | thickness 200+40 mm In the case of a roof with reinforced concrete structure suspensions must be possibly bound to the joists and not to hollow bricks.
- 4 **Hangers** Anti-fire carrier with slots for the pendulum and snap-on coupling + adjustable metal spring.
- 5 **Wood fiber FiberTherm 160** | various thickness The panels are made of wood fiber with density $\delta=160 \text{ Kg/m}^3$, 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 $\lambda=0.039 \text{ W/mK}$, specific heat $c=2100 \text{ J/Kg K}$, coefficient of resistance to vapor penetration $\mu=5$ and reaction to fire class E, according to EN 13501-1 standard. The dimensions are ... mm for a thickness of ... mm.
- 6 **Empty space** | various thickness Empty space of variable thickness (depending on the needs) for the passage of the installations
- 7 **Double non-overlapping metal frame** Main supporting pro le in galvanized steel, coated with anti-corrosion pre-painted aluminum foil, suitably hung by a rigid galvanized steel rod and adjustable metal spring, so as to obtain perfect atness and alignment of the suspended ceiling system
- 8 **Counter ceiling** plasterboards or similiar



ZONE C

Solution TF - type C1

FiberTherm 100 mm

Transmittance $U= 0,305 \text{ W} / (\text{m}^2\text{K})$

Resistance $R= 3,276 (\text{m}^2\text{K}) / \text{W}$

Displacement 18,26 hours

Climatic zone C

ZONE D

Solution TF - type D1

FiberTherm 100 mm

Transmittance $U= 0,263 \text{ W} / (\text{m}^2\text{K})$

Resistance $R= 3,803 (\text{m}^2\text{K}) / \text{W}$

Displacement 19,48 hours

Climatic zone D

ZONE E

Solution TF - type E1

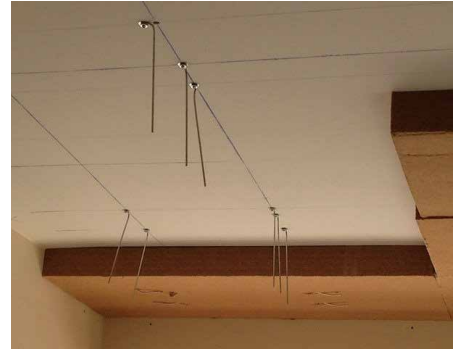
FiberTherm 100 mm

Transmittance $U= 0,206 \text{ W} / (\text{m}^2\text{K})$

Resistance $R= 4,855 (\text{m}^2\text{K}) / \text{W}$

Displacement 22,34 hours

Climatic zone E



| SYSTEM'S PRODUCTS



FiberTherm The panels are made of wood fiber with density $\delta=160 \text{ Kg/m}^3$, 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 $\lambda=0.039 \text{ W/mK}$, specific heat $c=2100 \text{ J/Kg K}$, coefficient of resistance to vapor penetration $\mu=5$ and reaction to fire class E, according to EN 13501-1 standard. The dimensions are ... mm for a thickness of ... mm. The wood used in the processing of the panels comes from forests controlled by FSC reforestation cycles.

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| CERTIFICATIONS

The Solution F therm 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.

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