ETICS therm on wood
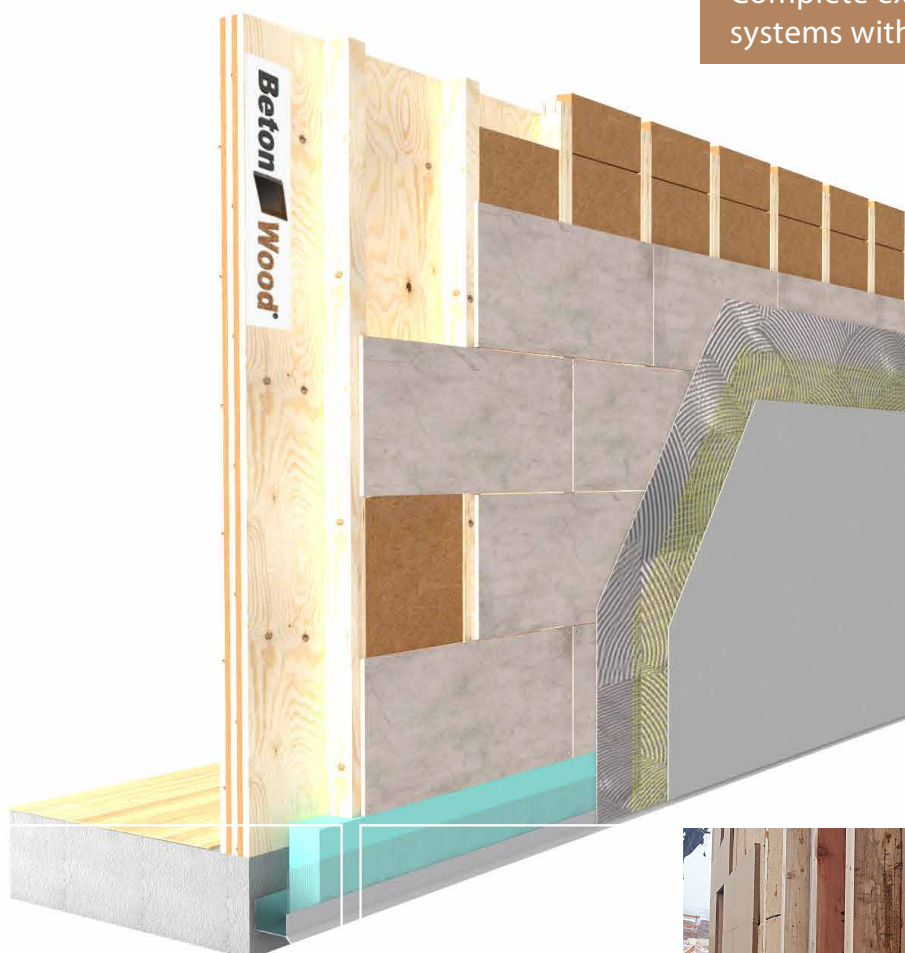
Thermal insulation composite system for external walls in wood fiber therm and cement bonded particle boards on wood

Beton Wood

| DESCRIPTION

The complete building system for high performances external wall ETICS therm on wood is easy and quick to install, guarantees maximum comfort and durability over time, with the international ETA certification.

It is the ideal system to realize light walls in BetonWood cement bonded particle boards with high mechanical resistance for the thermal and acoustic insulation, both internal and external, of the dry systems in wood (type X-Lam or Platform Frame).

The thermal insulation composite system ETICS therm on wood consists in the installation of a FiberTherm wood fiber filling in the wooden frame and an external covering with BetonWood N cement bonded particle boards with high performances.

The stratigraphy consists in wood fiber panels Fibertherm interposed between the beams of the wooden frame to ensure thermal insulation, and an external paneling in BetonWood N cement bonded particle boards, CE certified, fixed with auto-counter-sunk NF 57 Screws directly on the wooden frame structure. It is recommended base the wall on a starting profile Beton DripStarter PVC and an anti-humidity panel in extruded polystyrene 30 cm Styr XPS which guarantees excellent protection against rising damp. On the external side, we recommend to lay a first skimming and bonding layer BetonAR1, the glass fiber net with high density for thermal insulation composite system BetonGlass 360 and then, a second skimming layer BetonAR1.
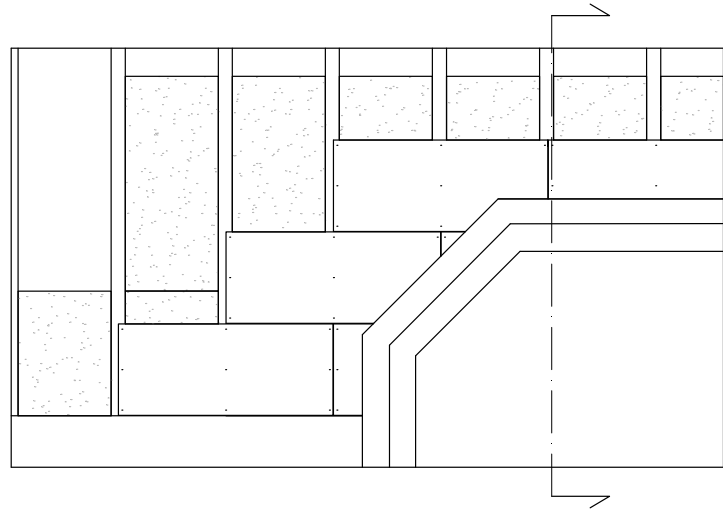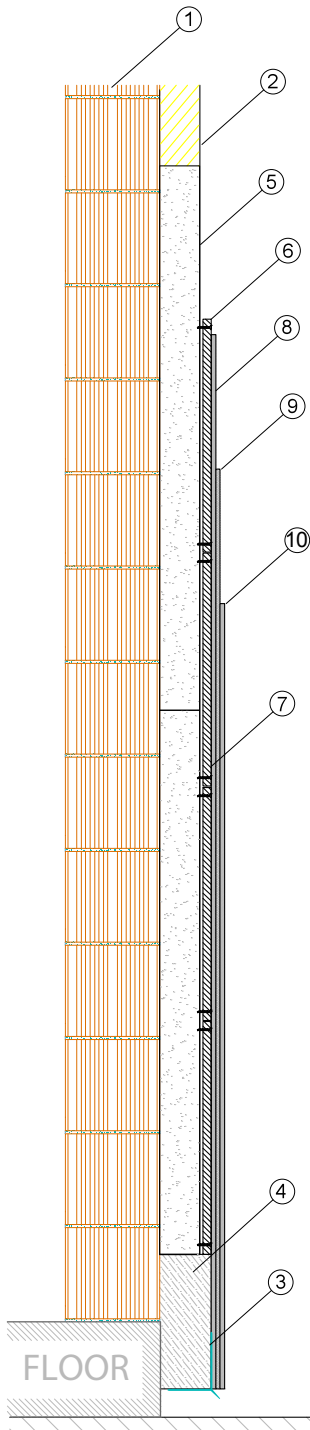
Advantages

- Approved and secure fixing system.
- Complete system: panels, skimming layers, installation products and accessories
- Easy and quick to install
- For continuous thermal insulation without thermal bridges and condensation
- Excellent thermal and acoustic insulation
- Fire resistance class A2
- Excellent mechanical resistance against burglary, antivandalism

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

| STRATIGRAPHY

1. **Masonry or x-lam wall**

2. **Wood frame structure**

3. **Angular starter base Beton DripStarter PVC** PVC profile with thermosealed glass fiber mesh 165 gr / mq certified ETAG004. Sealed connection between the starting base and the armed skimming layer. It interrupts the flow of water avoiding infiltrations. Prevents cracking in the plinth area.

4. **Styr XPS panel h30 cm** Starting panel in Styr XPS extruded polystyrene that protects the panels from rising damp coming from the bottom.

5. **Fibertherm 160 wood fiber** Wood fiber panels FiberTherm density 160 kg/m³. The wood fiber panel is a multi-use thermo-acoustic insulation, wet produced. Panel size 1350 x 600 mm

6. **Cement bonded particle boards BetonWood N** Cement bonded particle boards with high density 1350 kg/m³ and an excellent compressive resistnace 9000 kPa, fire resistant (A2 class). Panel size 1220x520 mm and thickness 18 mm

7. **NF57 Screws** Auto-countersunk screw for the fixing of BetonWood N cement bonded particle boards directly on the wood frame structure. No. 9 screws for fixing any panel.

8. **Beton AR1** Monocomponent cementitious mortar for bonding and smoothing of thermal insulation panels and BetonTherm "reinforced thermal insulation composite systems".

9. **Glassfiber net BetonGlass 360** Glass fiber net with density 360 g/m³ warp-proof and alkali-resistant, used in armored thermal insulation systems. Indispensable in BetonTherm systems.

10. **Beton AR1** Monocomponent cementitious mortar for bonding and smoothing of thermal insulation panels and BetonTherm "reinforced thermal insulation composite systems".

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| SYSTEM'S PRODUCTS

BetonGlass 360 The net has density 360 g/m³ and complies with the ETAG004 Guideline for ETICS (External Thermal Insulation Composite System), as certified by IFBT GmbH-MFPA Leipzing GmbH. It is suitable for internal and external armored thermal insulation (suitable for any type of BetonTherm product). 50 m² rolls.

RECOMMENDED - BetonAR1 Monocomponent cementitious mortar for bonding and smoothing of thermal insulation panels and BetonTherm "reinforced thermal insulation composite systems".
• 4,0 - 6,0kg/m² depending on the gluing technique
• 1,3 - 1,5kg/m² per mm of skimming layer thickness (recommended: approx. 4 mm within 2 hands).
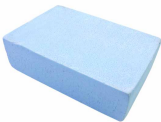Application: spatula

Screws NF 57 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. Spoon tip (spoon) with very high perforation capacity.
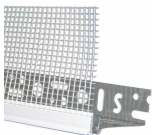
FiberTherm 160 Wood fiber density 160 Kg/m³. The FiberTherm wood fiber panel in a multi-use thermo-acoustic insulation, wet produced. Panel size 1350x600 mm. Available in thicknesses from 20 to 200 mm.

BetonWood N The Betonwood cement bonded particle board, high density (1350 Kg/m³), realized with Portland cement conglomerate and debarked Pine wood fiber. Thermo-dynamics characteristics: thermal conductivity coefficient λ=0,26 W/mK, specific heat c=1,88 KJ/Kg K, coefficient of resistance to vapor penetration μ=22,6 and fire resistant class A2-fl-s1, according to the standard EN 13501-1.

Styr XPS Starting panel in Styr XPS extruded polystyrene that protects the panels from rising damp coming from the bottom.

BetonDripStarter PVC PVC profile with thermosealed glass fiber mesh 165 gr / mq certified ETAG004. Sealed connection between the starting base and the armed skimming layer. It interrupts the flow of water avoiding infiltrations. Prevents cracking in the plinth area. Size 2,5x0,125 m. 25 pieces/package.

| CERTIFICATIONS

The insulation system for external walls ETICS therm on wood is made with CE certified materials in accordance with current regulations. The certificates of the individual products are available on request.