# **ETICS betontherm styr**



Reinforced thermal insulation composite system with cement bonded particle boards and polystyrene panels

Complete external insulating wall systems with high performances



### DESCRIPTION

The complete reinforced thermal insulation composite system with high performance ETICS betontherm styr garantees the maximum comfort and maximum durability over time, with the international ETA certification.

It is the ideal system for the realization of thermo-acoustic insulation in external composite system with high mechanical strenght and an excellent thermal displacement, both internal and external, of the perimeter walls and suitable both for traditional constructions and for dry wooden systems.

The external wall system ETICS betontherm styr consists in an insulating and reinforced covering using panels with high mechanical resistance Betontherm Styr which acts as a highly performing building envelope. The stratigraphy consists of panels in cement bonded particle boards and expanded or extruded polystyrene panels for high quality armored thermal composite system Betontherm Styr certified CE, fixed with Betonfix FIF-CS8 on masonry and with Betonfix 6H-NT on wood support; the panels are then laid on a starting base composed of a BetonDripstarterPVC drip tray which guarantees excellent protection against rising damp. On the external side a first skimming layer of BetonAR1 must be placed, then, a glass fiber net BetonGlass 360 and a second skimming layer BetonAR1type must be installed.

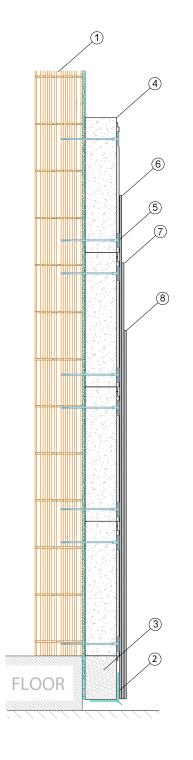
#### Advantages

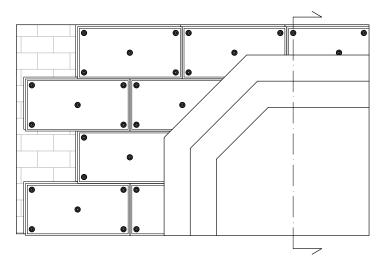
- Approved and secure fixing system: 750kg each panel
- Complete system: insulation system, skimming layers, installation products and accessories
- · High insulation thicknesses reachable; up to 12cm with a single layer
- For continuous thermal insulation without condensation
- · Various thicknesses available and stepped profile
- 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





Masonry or x-lam wall

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- 2 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.
- 3 \*optional in BetonTherm Fiber Styr XPS panel h30 cm Starting panel in Styr XPS extruded polystyrene that protects the panels from rising damp coming from the bottom.
- 4 ETICS Betontherm styr Reinforced thermal insulation composite system composed by two layer already coupled: the first, high density cement bonded particle board BetonWood, and the second, expanded or extruded polystyrene panel Styr. Fire-proof, burglar-proof, thermal-acoustic insulation easy to install.
- 5 Betonfix FIF-CS8 ON MASONRY Screwing fastening for materials of external thermal insulation composite systems (ETICS). The composite screw minimizes the thermal bridge. or

Betonfix 6H-NT - ON WOOD - Flush or retractable fixing for external thermal insulation composite systems (ETICS) with certified Power-Fast screw.

- 6 Beton AR1 Monocomponent cementitious mortar for bonding and smoothing of thermal insulation panels and BetonTherm "reinforced thermal insulation composite systems".
- 7 Glassfiber net BetonGlass 360 Glass fiber net with density 360 g/m<sup>3</sup> warp-proof and alkali-resistant, used in armored thermal insulation systems. Indispensable in Beton-Therm systems.
  - Beton AR1 Monocomponent cementitious mortar for bonding and smoothing of thermal insulation panels and BetonTherm "reinforced thermal insulation composite systems".





SYSTEM'S PRODUCTS



BetonGlass 360 The net has density 360 g/m<sup>3</sup> 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 m<sup>2</sup> 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/m<sup>2</sup> depending on the gluing technique
1,3 - 1,5kg/m<sup>2</sup> per mm of skimming layer thickness (recommended: approx. 4 mm within 2 hands). Application: spatula

**ON MASONRY** - BetonFix FIF-CS8 The composite screw minimizes the thermal bridge so that no traces appear on the façade. Less bit wear and puncture time thanks to a minimum installation depth of 35 mm in the support. The disc adapts perfectly to the insulation allowing the application of thin skimming layers.

ON WOOD - BetonFix 6H-NT Pre-assembled fastening with the Power-Fast certified screw. This guarantees a secure grip on the support material. The minimum screwing depth of 30 mm ensures fast assembly. It is not necessary to pre-drill.

BetonTherm Styr It is the ideal system for the realization of thermo-acoustic insulation composite system with high mechanical resistance and high thermal displacement in cement bonded particle board and expanded/extruded polystyrene panels. Excellent fire resistance (class A2) and mechanical resistance that make this system optimal for public buildings, escape routes, places where safety is important. Available in the format with stepped profile 1,200x600 mm. Thicknesses from 96 to 120 mm.

\* optional in BetonTherm Fiber - 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.

#### **BETONWOOD Srl**

Head office : Via Falcone e Borsellino, 58 I-50013 Campi Bisenzio (FI)

> T: +39 055 8953144 F: +39 055 4640609

info@betonwood.com www.betonwood.com

PEBTHSTY - ST R.18.5



## CERTIFICATIONS

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



