

Wall Betonwood on metal



Building system for internal walls in BetonWood cement bonded particle boards fixed on metal frame

Complete internal insulating wall systems with high performances



| DESCRIPTION

The complete building system for high performances internal wall Wall Betonwood on metal 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 and masonry.

The building system Wall Betonwood on metal consists in laying a covering on the internal part of the metal frame with panels with high mechanical resistance in BetonWood N cement bonded particle boards that acts as a high performance building envelope.

The stratigraphy consists in BetonWood N cement bonded particle boards with high density (1350 kg/m³), an excellent compressive resistance (9.000,00 KPa) and fire resistance (A2 class), CE certified. These panels are fixed with auto-drilling Screws NF 60 directly on the metal frame structure. 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

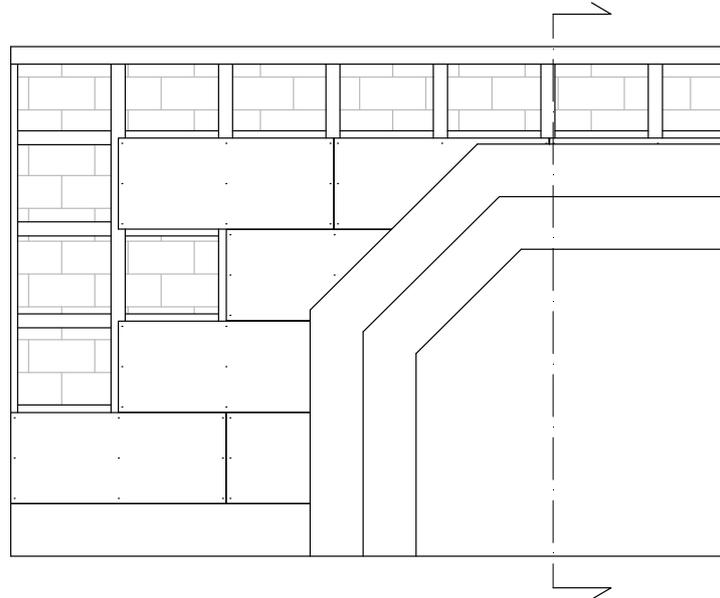
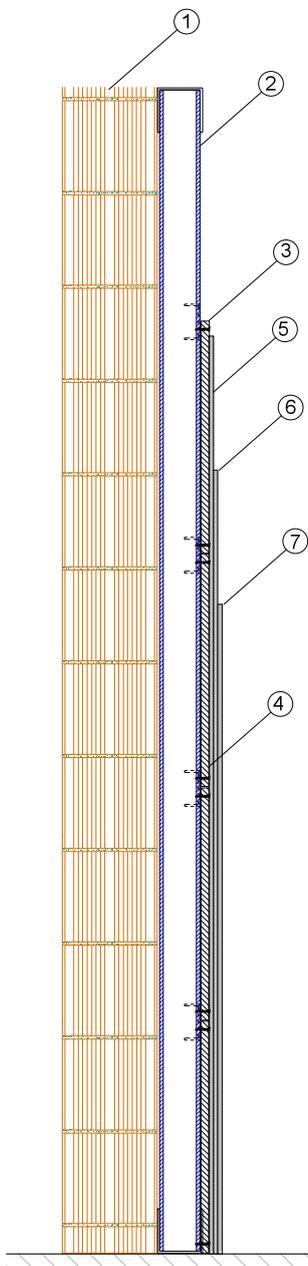
- Approved and secure fixing system.
- Complete system: panels, skimming layers, installation products and accessories
- Easy and quick to install
- For continuous thermal insulation without thermal bridges and condensation
- Excellent thermal and acoustic insulation (with the addition of insulating panels)
- 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 Metal frame structure
- 3 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.
- 4 **NF60 Screws** Auto-drilling screws for the fixing of **BetonWood N** cement bonded particle boards directly on the wood frame structure. No. 9 screws for fixing any panel.
- 5 **Beton AR1** Monocomponent cementitious mortar for bonding and smoothing of thermal insulation panels and **BetonTherm** "reinforced thermal insulation composite systems".
- 6 **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 **Beton-Therm** systems.
- 7 **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^3 and complies with the ETAG004 Guideline for ETICS (External Thermal Insulation Composite System), as certified by IFBT GmbH-MFPA Leipzig GmbH. It is suitable for internal and external armored thermal insulation (suitable for any type of BetonTherm product). 50 m^2 rolls.



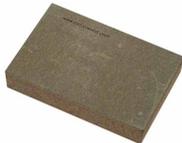
RECOMMENDED - BetonAR1 Monocomponent cementitious mortar for bonding and smoothing of thermal insulation panels and BetonTherm "reinforced thermal insulation composite systems".

- $4,0 - 6,0 \text{ kg/m}^2$ depending on the gluing technique
- $1,3 - 1,5 \text{ kg/m}^2$ per mm of skimming layer thickness (recommended: approx. 4 mm within 2 hands).

Application: spatula



Screws NF 60 The screw has a special anti-corrosion coating that guarantees a 1,000-hour salt spray resistance. Under-head with very sharp self-sinking wings for a perfect housing of the head flush with the panel. Drill bit that allows a perfect drilling capacity even on high sheet thicknesses.



BetonWood N The Betonwood cement bonded particle board, high density (1350 Kg/m^3), realized with Portland cement conglomerate and debarked Pine wood fiber. Thermo-dynamics characteristics: thermal conductivity coefficient $\lambda=0,26 \text{ W/mK}$, specific heat $c=1,88 \text{ KJ/Kg K}$, coefficient of resistance to vapor penetration $\mu=22,6$ and fire resistant class A2-fl-s1, according to the standard EN 13501-1.

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

PIBTWM - ST R.18.5

| CERTIFICATIONS

The insulation system for internal walls Wall Betonwood on metal is made with CE certified materials in accordance with current regulations.

The certificates of the individual products are available on request.

Beton Wood

