

Partition wall wood fiber Therm

Beton  **Wood**

Building system for partition walls in BetonWood cement bonded particle boards and wood fiber Therm

Complete internal insulating wall systems with high performances



| DESCRIPTION

The complete construction system for high performance and fire resistant interior walls Partition wall wood fiber therm is easy and quick to install, it guarantees maximum comfort and maximum durability over time.

It is the ideal system for the realization of partitions with an excellent thermal-acoustic insulation with high mechanical resistance on wooden dry systems (type X-Lam or Platform Frame).

The building system Partition wall wood fiber therm consists in the installation of a FiberTherm wood fiber rigid panels filling between the beams of the wooden frame and a coating on both sides with BetonWood N cement bonded particle boards.

The stratigraphy consists in Fibertherm wood fiber panels with density 160kg/m³ laid between the wood frame beams to guarantee the thermal insulation; BetonWood N cement bonded particle boards must be fixed to the frame as external covering. These panels has high density (1350 kg/m³), high compression (9.000,00 KPa) and fire (classe A2) resistance, CE certified. Fixing is done with auto-countersunk Screws NF 57 directly on the wood frame structure (type X-Lam or Platform Frame). Then, these panels can be finished either with a first layer of BetonAR1 glue-skimming compound, an high density glass fiber net BetonGlass 360 and a second layer of BetonAR1 glue-skimming compound, or with a simple plasterboard paneling also fixed by screws.

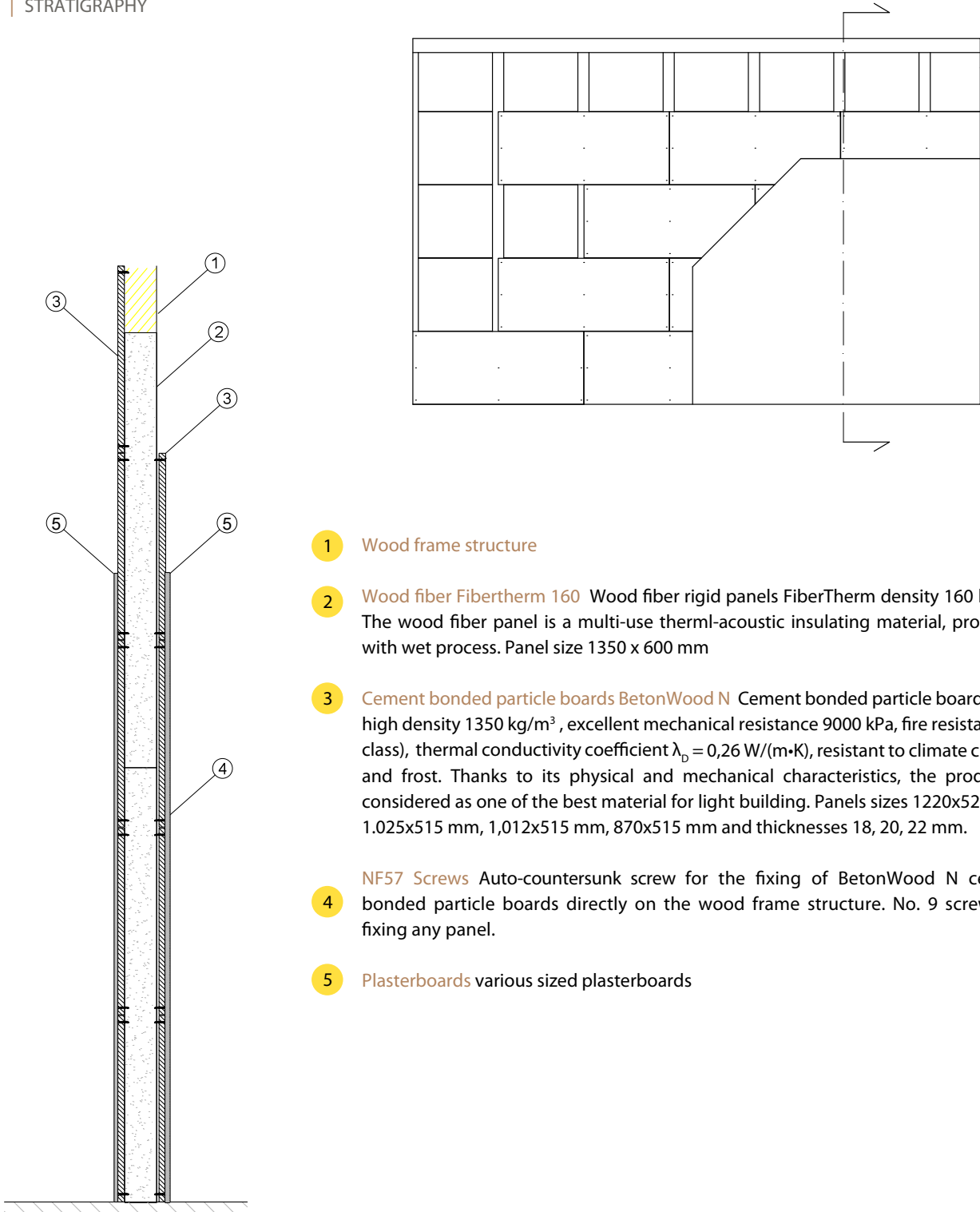
Advantages

- 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 Wood frame structure
- 2 Wood fiber Fibertherm 160 Wood fiber rigid panels FiberTherm density 160 kg/m³. The wood fiber panel is a multi-use thermal-acoustic insulating material, produced with wet process. Panel size 1350 x 600 mm
- 3 Cement bonded particle boards BetonWood N Cement bonded particle boards with high density 1350 kg/m³, excellent mechanical resistance 9000 kPa, fire resistant (A2 class), thermal conductivity coefficient $\lambda_D = 0,26 \text{ W}/(\text{m}\cdot\text{K})$, resistant to climate change and frost. Thanks to its physical and mechanical characteristics, the product is considered as one of the best material for light building. Panels sizes 1220x520 mm, 1,025x515 mm, 1,012x515 mm, 870x515 mm and thicknesses 18, 20, 22 mm.
- 4 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.
- 5 Plasterboards various sized plasterboards



| SYSTEM'S PRODUCTS



Plasterboards Plasterboards



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 N cement bonded particle boards, with high density (1350 Kg/m³), made of Portland-type cement conglomerate and debarked Pine wood fiber. These panels have the following termo-dynamics characteristics: thermal conductivity coefficient $\lambda=0,26$ W/mK, specific heat $c=1,88$ KJ/Kg K, coefficient of resistance to vapor penetration $\mu=22,6$ and reaction to fire class A2-fl-s1, according to the standard EN 13501-1.

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| CERTIFICATIONS

The insulation system for internal walls Partition wall Betonwood on wood fiber Therm is made with CE certified materials in accordance with current regulations.

The certificates of the individual products are available on request.

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