

Partition wall hemp fiber Canawool **Beton** **Wood**

Building system for partition walls in BetonWood
cement bonded particle boards and hemp fiber Canawool

Complete internal insulating wall
systems with high performances



| DESCRIPTION

The complete construction system for high performance and fire resistant interior walls Partition wall loose hemp fiber canawool 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 loose hemp fiber canawool consists in the installation of a FiberTherm canawool loose hemp fiber 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 canawool loose hemp fibers with variable density 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.

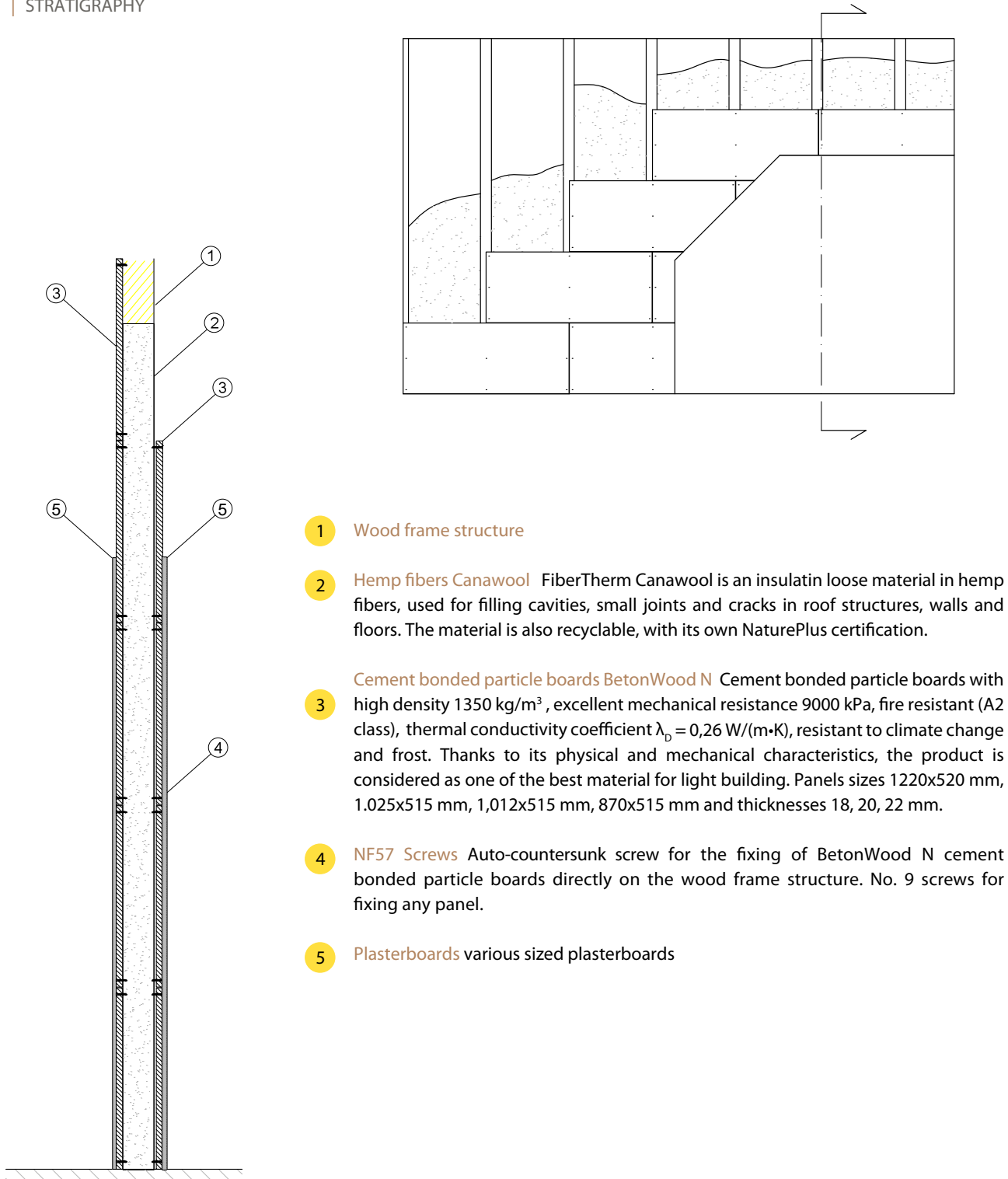
Advantages

- 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 Hemp fibers Canawool FiberTherm Canawool is an insulating loose material in hemp fibers, used for filling cavities, small joints and cracks in roof structures, walls and floors. The material is also recyclable, with its own NaturePlus certification.

3 Cement bonded particle boards BetonWood N Cement bonded particle boards with high density 1350 kg/m^3 , excellent mechanical resistance 9000 kPa , fire resistant (A2 class), thermal conductivity coefficient $\lambda_D = 0,26 \text{ W/(m}\cdot\text{K)}$, 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 $1220 \times 520 \text{ mm}$, $1,025 \times 515 \text{ mm}$, $1,012 \times 515 \text{ mm}$, $870 \times 515 \text{ mm}$ 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 Canawool FiberTherm Canawool is an insulating material in loose hemp fibers, for filling cavities, small joints and cracks in roof, wall and floor structures. FiberTherm Canawool is an excellent complement to the rigid insulation panel. Ideal for filling small openings and hard to reach areas. Hemp fibers are among the most resistant natural products and have the ideal conditions for a long duration of insulation.

The material is also recyclable, with relative NaturePlus certification.



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 hemp fiber Canawool is made with CE certified materials in accordance with current regulations.

The certificates of the individual products are available on request.

Beton Wood

