

Partition wall cellulose flakes Floc

Beton  **Wood**

Building system for internal and partition walls in cement bonded particle boards and cellulose flakes Floc

Complete internal insulating wall systems with high performances



| DESCRIPTION

The complete construction system for high performance and fire resistant interior walls Partition wall cellulose flakes floc 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 cellulose flakes floc consists in the installation of a FiberTherm floc cellulose flakes 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 floc loose cellulose flakes with variable density from 40 to 60 kg/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.

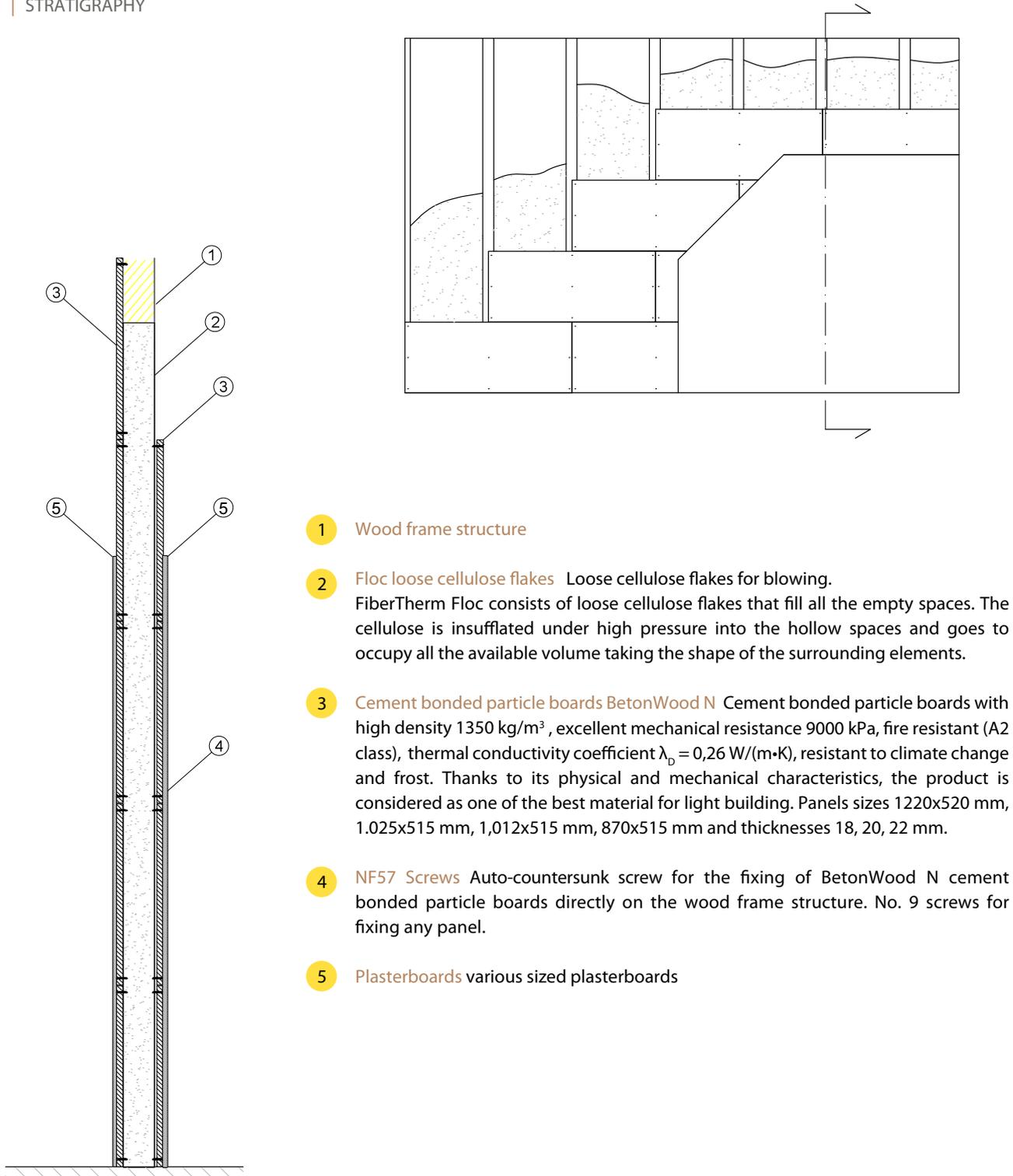
Advantages

- 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 Floc loose cellulose flakes Loose cellulose flakes for blowing. FiberTherm Floc consists of loose cellulose flakes that fill all the empty spaces. The cellulose is insufflated under high pressure into the hollow spaces and goes to occupy all the available volume taking the shape of the surrounding elements.

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 floc The FiberTherm Floc cellulose flakes are laid by blowing and the density, with its thermo-dynamics characteristics, change in correspondence with the element that is to be filled. It is characterized by the following thermo-dynamics characteristics: density from 40 to 60 kg/m³ for open elements such as the roof, declared thermal conductivity $\lambda=0,039$ W/mK, coefficient of resistance to vapor penetration $\mu=1-2$, specific heat 2100 J/kgK, fire reaction class E according to UNI EN 13501-1, CE certified. FiberTherm floc can be used in external elements GK0 in wood structures and prefabricated elements according to the constraints of the Z-23,11-2.070.



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 thermo-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 Cellulose flakes floc is made with CE certified materials in accordance with current regulations.

The certificates of the individual products are available on request.