

NEW STONIT

Product Information Leaflet¹

1. Product composition

NEW STONIT slates are made of fiber cement and consist of:

- Portland cement
- Mineral fillers
- High-grade synthetic fibers (PVA)
- Organic process fibers (cellulose)
- Organic coating

2. Production method

NEW STONIT slates are made of highly compressed and air-cured fiber cement. On the fair face, NEW STONIT slates have the same texture as natural slates and its 4 edges are dressed. During production pigmented slurry is applied to the fair face. After curing exact slate sizes are cut from the base sheets. Different multi-layer coating systems are applied on the front and back of each slate.

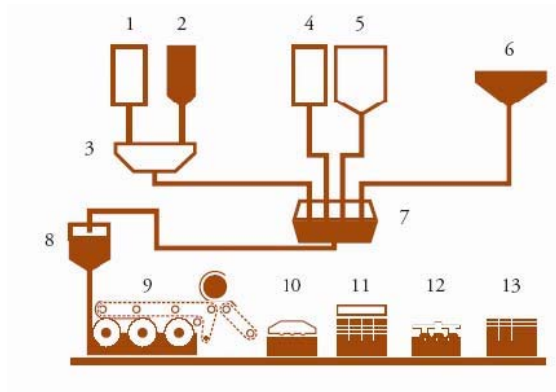


Fig. 1: Production scheme

- | | |
|----|-----------------------|
| 1 | 1. Reinforcing fibers |
| 2 | 2. Water |
| 3 | 3. Mixer |
| 4 | 4. Process fibers |
| 5 | 5. Cement |
| 6 | 6. Water |
| 7 | 7. Central mixer |
| 8 | 8. Silo |
| 9 | 9. Hatschek machine |
| 10 | 10. Press |
| 11 | 11. Cutting frame |
| 12 | 12. Finishing |
| 13 | 13. Stacking |

¹ This product information leaflet replaces any previous editions. EURO PANELS OVERSEAS reserves the right to amend this information leaflet without prior notice. Readers should always ensure they consult the most recent version of this document.

3. Dimensions, tolerances and weight

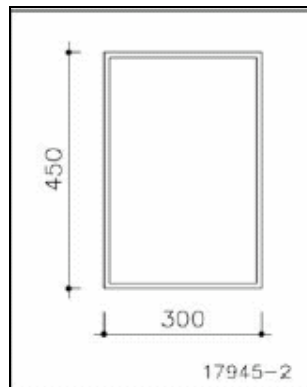
Nominal thickness: 4 mm
 Tolerances: on length and width +3/-3 mm
 On thickness +1/-0.4 mm

Table 1: Weight

Dimension (cm)	Weight (kg)
45x30	1.1 kg
60x30(*)	1.5 kg

(*) only available on special request

Fig. 2: Dimensions



4. Colours and finishing layers²

NEW STONIT slates have a triple finishing layer on the fair face and a double one on the back.

Fair face

On top of the pigmented final layer, as part of the production of the base sheet, a double protective top coat is applied. It consists of a primer and a finishing coat. The latter is a synthetic acrylic resin containing pigments that determine the final colour of the NEW STONIT slates. Also the edges of the NEW STONIT slates are treated with the same resin.

Available colour: Slate grey

Back

To increase the dimensional stability of the slate, a protective synthetic acrylic resin is also applied on the back. The aim of this multiple coating is a better sealed surface to considerably reduce water absorbency. Finally the back of the slate is provided with a wax to avoid the slates sticking together in the stack and to prevent moisture wicking between the slates.

² It is advised to request a sample for an illustration of the colours.

5. Mechanical and physical characteristics (average values)

Table 2: Mechanical characteristics

Bending strength (saturated)	Value
parallel to the fibers	22.5 N/mm ²
perpendicular to the fibers	15.5 N/mm ²
average bending moment	50 Nm/m

Table 3: Physical characteristics

Physical Characteristics	Value	Remark
Density	1820 kg/m ³ (min 1710)	Oven dry
Moisture expansion coefficient	3.3 mm/m	From oven dry to saturated for an unfinished slate
Thermal expansion coefficient	10*10 ⁻⁶ m/mK	Oven dry (between -20° and +80°c)
Water absorption	15%	After 24 h immersed in water – starting from an oven dry, unfinished slate.
Frost resistance	- 30 °C	Continuous

6. Advantages, properties and performances

- High mechanical strength
- Easy to work
- Insensitive to atmospheric influences
- Chemical stability
- Reaction to fire according to EN 13501-1 : A2
- Good biological resistance
- Light weight
- Compatible with other standard building materials
- High flexibility to all types of architectural design

7. Applications (not exhaustive)

Roof:

- Double cover

8. Normalization and approvals

The NEW STONIT slates meet the requirements as specified in the norm EN 492 and, as such, enjoys the CE-mark.

9. Working guidelines

The most used tools for working fiber cement slates are:



Fig. 3: Guillotine shear



Fig. 4: Hand shear



Fig. 5: Slater's hammer



Fig. 6: Break iron



Fig. 7: Scoring knife

10. MAINTENANCE AND CLEANING

In function of the location of the roof, it is recommended to remove fungi, mosses etc. when required. Also regular inspection of the roof is recommended to check the physical condition of the slates as well as the fixing.

For more details on cleaning procedures, please consult EURO PANELS OVERSEAS.

11. TRANSPORT AND STORAGE

NEW STONIT slates are stacked on pallets and covered with corrugated cardboard. The pallet is further secured with a protective shrink-wrapping and iron straps. The slates have to be stored in a dry and well-ventilated space on a flat surface. On site, the corrugated cardboard and the shrink-wrapping need to be removed from the pallet. From then on, the stacked slates should be covered by a tarpaulin.

12. GUARANTEE

The guarantee and the guarantee conditions are available on request from EURO PANELS .



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