



SILBONIT FP SURFACE are asbestos free double pressed and autoclaved flat boards. They are reinforced with mineralized cellulose fibers and through colored, with bushhammered surface and rectified edges. **SILBONIT FP SURFACE** boards are CE marked according to EN 12467:2018.

Technical Data Sheet (rev.1 del 11/03/2026)

SILBONIT FP Surface Hydroplus (transparent hydrophobic treatment)

| | Unit of measure | Value |
|---|---|--|
| STANDARD DIMENSIONS** AND GEOMETRY | | |
| Length | mm | 2500 3000 3050 |
| Width | mm | 1200 1250 |
| Thickness | | 8-10-12 |
| Tolerances on nominal dimensions | Classification according to EN 12467:2018 | Level 1 |
| - on length | mm | ± 2 |
| - on width | mm | ± 1 |
| - on straightness of edges | % | 0,1 |
| - on squareness of edges | mm/m | 2 |
| - on thickness 8-10 mm for smooth sheets | mm | +0,5 - 0,6 |
| - on thickness 12 mm for smooth sheets | mm | +0,5 - 0,9 |
| Nominal weight | kg/m ² | 14,4 (t=8mm) 18,0 (t=10mm) 21,6 (t=12mm) |
| PHYSICAL PROPERTIES | | |
| Density (dry) | kg/m ³ | 1600 ± 50 |
| MECHANICAL PROPERTIES | | |
| E modulus of elasticity (dry) | | |
| - longitudinal | GPa | 14 |
| - transversal | GPa | 10 |
| E modulus of elasticity (wet) | | |
| - longitudinal | GPa | 10 |
| - transversal | GPa | 8 |
| Bending strength (wet) – hydrophobic treated sheets | MPa | ≥18 |
| Resistance (Charpy test) | According to EN 179-1:2010 | |
| - longitudinal | kJ/m ² | 4,3 |
| - transversal | kJ/m ² | 3,1 |
| HYGROMETRICAL PROPERTIES | | |
| Natural humidity | % | 8 ÷ 12 |



| | Unit of measure | Value |
|---|----------------------------|------------|
| Max water absorption (wet over dry) | % | ≤25 |
| Moisture movement – Relative humidity change from 30% to 90% | | |
| - longitudinal | mm/m | 1,3 |
| - transversal | mm/m | 1,0 |
| THERMAL AND WATER VAPOUR PROPERTIES (untreated boards) | | |
| Vapor resistance factor, μ – according to EN 12572:2016 | --- | 34 |
| Thermal conductivity – according to EN 12664:2002 | W/mK | 0,36 |
| OTHER PROPERTIES | | |
| Superior calorific power | MJ/kg | ≤1,1 |
| Fire rating class | According to EN 13501-1 | A1 |
| Freeze-thaw performance | | RL ≥ 0,75 |
| Durability classification | According to EN 12467:2018 | category A |
| Strength classification | According to EN 12467:2018 | class 4 |
| CE marked product according to | --- | EN12467 |

** On request are available smaller dimensions.

If not otherwise specified the tests are in accordance to EN 12467.

Please refer to the latest Technical Data Sheet available in the download area at:

<http://www.sil-lastre.com/download/>

The current document replaces any previous version.

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