

**SILBONIT** are asbestos free double pressed and autoclaved flat boards. They are reinforced with mineralized cellulose fibers and through colored, with smoothed surface and rectified edges. **SILBONIT** boards are CE marked according to EN 12467.  
 Technical Data Sheet (rev.5 del 11/03/2026)

## SILBONIT FANCY MATT

(Printed with inorganic inks and protected with transparent matt anti-graffiti acrylic painting)

	Unit of measure	Value
<b>STANDARD DIMENSIONS** AND GEOMETRY</b>		
Length	mm	2500 3000 3050
Width	mm	1200 1250
Thickness		5-6-8-10-12
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 for smooth sheets	mm	± 0,5
Nominal weight	kg/m <sup>2</sup>	9 (t=5mm) 10,8 (t=6mm) 14,4 (t=8mm) 18,0 (t=10mm) 21,6 (t=12mm)
<b>PHYSICAL PROPERTIES</b>		
Density (dry)	kg/m <sup>3</sup>	1600 ± 50
<b>MECHANICAL PROPERTIES</b>		
E modulus of elasticity (dry)		
- longitudinal	GPa	14
- transversal	GPa	12
E modulus of elasticity (wet)		
- longitudinal	GPa	11
- transversal	GPa	9
Bending strength (wet)	MPa	≥24
Resistance (Charpy test)	According to EN 179-1:2010	
- longitudinal	kJ/m <sup>2</sup>	4,3
- transversal	kJ/m <sup>2</sup>	3,1
<b>HYGROMETRICAL PROPERTIES</b>		

	Unit of measure	Value
Natural humidity	%	10 ÷ 15
Max water absorption (wet over dry)	%	≤25
Moisture movement – Relative humidity change from 30% to 90%		
- longitudinal	mm/m	0,7
- transversal	mm/m	0,8
<b>THERMAL AND WATER VAPOUR PROPERTIES (untreated boards)</b>		
Vapor resistance factor, $\mu$ – according to EN 12572:2016	---	49
Thermal conductivity – according to EN 12664:2002	W/mK	0,42
<b>OTHER PROPERTIES</b>		
Superior calorific power	MJ/kg	≤1,3
Fire rating class	According to EN 13501-1	A2 s1 d0
Freeze-thaw performance		RL ≥ 0,75
Durability classification	According to EN 12467:2018	category A
Strength classification	According to EN 12467:2018	class 5
Wet-scrub resistance and cleanability of coatings	UNI EN ISO 11998:2006 UNI EN 13300:2002	Class 1
Determination of scratch resistance	UNI EN ISO 1518-1:2019	Pass
CE marked product according to	---	EN12467

Other analysis performed:

Overall migration UNI EN 1186:2003 /// Surface resistance to scratching UNI EN 15186:2012, met. B /// Cold-check test for surface finishes UNI 9429:2022 /// Surface resistance to wet heat UNI EN 12721:2013 /// Surface resistance to dry heat UNI EN 12722:2013 /// Surface resistance to cold liquids UNI EN 12720:2013 /// Tendency to retain dirt UNI 9300:2020 /// Surface resistance to cold liquids (cleaning products) PTP 53:2017 Rev. 2

\*\* 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/>

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