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.4 del 12/04/2023)

SILBONIT PIGMENTA (anti-graffiti coloured acrylic treatment)

	Unit of measure	Value
STANDARD DIMENSIONS** AND GEOMETRY		
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^2	9 (t=5mm) 10,8 (t=6mm) 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	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^2	4,3
- transversal	kJ/m^2	3,1

	Unit of measure	Value
HYGROMETRICAL PROPERTIES		
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
THERMAL AND WATER VAPOUR PROPERTIES (untreated boards)		
Vapor resistance factor, μ – according to EN 12572:2016	---	49
Thermal conductivity – according to EN 12664:2002	W/mK	0,42
Thermal expansion coefficient – according to EN 10545-8:2014		
- longitudinal	1/°C	1,71•10-6
- transversal	1/°C	0,58•10-6
OTHER PROPERTIES		
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
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/
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