



SILBONIT SAFE are asbestos free double pressed and autoclaved flat boards with smoothed surface and rectified edges. They are through colored, reinforced with mineralized cellulose fibers and with a fiberglass mesh applied to the back. **SILBONIT SAFE** boards are CE marked according to EN 12467

Technical Data Sheet (rev.5 del 11/03/2026)

SILBONIT SAFE CRYSTAL (Anti-graffiti transparent 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
Tollerances 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
PROPRIETA' MECCANICHE		
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
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
- trasversal	mm/m	0,8



	Unit of measure	Value
THERMAL AND WATER VAPOUR PROPERTIES		
Vapor resistance factor, μ – according to EN 12572:2016	---	49
Thermal conductivity – according to EN 12664:2002	W/mK	0,42
OTHER PROPERTIES		
Superior calorific power	MJ/kg	$\leq 2,0$
Fire rating class	According to EN 13501-1	A2 s1 d0
Freeze-thaw performance		RL $\geq 0,75$
Durability classification	According to EN 12467:2018	category A
Strength classification	According to EN 12467:2018	class 5
Resistance to humid atmospheres containing sulfur dioxide according to UNI EN ISO 3231: 1999	(1)Blistering "n(Sm)" (2)Rusting "R _i " (3)Delamination	0(S0) 0 0
Corrosion resistance in salt spray test according to UNI EN ISO 9227: 2017 (1500 h)	(1)Blistering "n(Sm)" (2)Rusting "R _i " (3)Delamination	0(S0) 0 0
Impact resistance	NF F31-129: 2013	Pass
Hard body impact resistance	ETAG 034- 1:2012	Pass
Determination of the sound coefficient absorption in reverberation room	UNI EN ISO 354: 2003	No reverberation effect
Cyclic pressure and depression test (10 ⁵ number of cycles)	-----	No deformation or variation in performance
Determination of light reflection factor according to ISO 9050: 2003	Average " ρ_v " value	76%
Wet-scrub resistance and cleanability	UNI EN ISO 11998:2006 UNI EN 13300:2002	Class 1
CE marked product according to	---	EN12467



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- (1) “n” is the bubbles q.ty and start from 2 (min. q.ty) to 5 (max. q.ty).
“S_m” is the bubbles dimension and start from S₂ (min. dim.) to S₅ (max. dim.).
- (2) “R_i” start from 0 (min.) to 5 (max).
- (3) “Delamination rate” start from 0 (min.) to 5 (max).

** On request are available smaller dimensions.

If not otherwise specified the tests are in accordance to EN 12467:2018.

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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