Società Italiana Lastre

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 HYDROPLUS (transparent hydrophobic 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		
Peso specifico allo stato secco	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
- transversal	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	≤2,0
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
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
CE marked product according to	---	EN12467

** 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/
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