



Asbestos free double pressed and autoclaved flat sheets SILBONIT. Boards are reinforced with mineralized cellulose fibres, they have smoothed surface and rectified edges. They are through coloured and respond to the European standards EN 12467:2012

## TECHNICAL DATA SHEET

Characteristics	Silbonit HA-HC
Density (dry)	≥1,6 kg/dm <sup>3</sup>
Max water absorption* - untreated sheets	≤ 25%
Max water absorption* – hydrophobic sheets	≤ 9%
Max water absorption* – UV treated sheets	≤ 3%
Natural humidity	10 ÷ 15%
Movement in extreme weather conditions/temperature and moisture conditions -5°C ÷ 100°C; 20 ÷ 90%	1,5 mm/m
Thermal conductivity	0,36 W/mK
Thermal expansion coefficient	0,00001 °C <sup>-1</sup>
Fire rating	class A2 - s1, d0
Freeze resistance	optimum
Oils, acids, bases, salts resistance	good
Waterproof - inalterability	absolute
Wear resistance	good
Durability classification (EN 12467:2012)	category A
Strength classification (EN 12467:2012) (wet) untreated sheets	class 4 ≥ 18 N/mm <sup>2</sup>
Strength classification (EN 12467:2012) (wet) hydrophobic-UV treated sheets	class 5 ≥ 24 N/mm <sup>2</sup>
Bending strength (dry):	
- perpendicular rupture to fibres	32 N/mm <sup>2</sup>
- parallel rupture to fibres	22 N/mm <sup>2</sup>
Standard sizes (mm)	2500x1200-2500x1250 3000x1200-3000x1250
Tolerances on nominal dimensions	Level 1 ± 2 mm length ± 1 mm width
Tolerances on straightness of edges	Level 1 0,1%
Tolerances on squareness of edges	Level 1 2mm/m
Tolerances on thickness for smooth sheets	± 0,2 mm



Compression resistance	40 N/mm <sup>2</sup>
Resilience	2 Nmm/mm <sup>2</sup>
E modulus of elasticity (dry)	13.000 N/mm <sup>2</sup>
Superior caloric power	0,14 MJ/kg
Vapour resistance factor $\mu$	45
CE marked product	EN 12467:2012

\* wet over dry

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**Please refer to the latest technical data sheet available in our download area at [www.sil-lastre.com](http://www.sil-lastre.com)**

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