



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

## 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
Bending strength (wet)	≥ 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>
Compression resistance	40 N/mm <sup>2</sup>
Resilience	2 Nmm/mm <sup>2</sup>
E modulus of elasticity (dry)	12.000 N/mm <sup>2</sup>
Superior caloric power	0,14 MJ/kg
Vapour resistance factor μ	45
Durability classification (EN 12467)	category A
Strength classification (EN 12467)	class 5
CE marked product	European Directive no. 89/106/EEC annexe III

\* wet over dry