



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 ³ |
| 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 ⁻¹ |
| 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 ² |
| Strength classification (EN 12467:2012) (wet) hydrophobic-UV treated sheets | class 5 ≥ 24 N/mm ² |
| Bending strength (dry): | |
| - perpendicular rupture to fibres | 32 N/mm ² |
| - parallel rupture to fibres | 22 N/mm ² |
| 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 |



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|--------------------------------|--------------------------|
| Compression resistance | 40 N/mm ² |
| Resilience | 2 Nmm/mm ² |
| E modulus of elasticity (dry) | 13.000 N/mm ² |
| Superior caloric power | 0,14 MJ/kg |
| Vapour resistance factor μ | 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

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