



# TECHNICAL DATA SHEET

Characteristics	KØL High Density Fibre Cement
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	CAN/ULC S114-05 ASTM E136 ASTM E84 - CLASS A
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 (inches)	49.21" x 98.42" 49.21" x 120.07"
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 m	45
CE marked product	EN 12467:2012
* wet over dry	

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