

CALCON BOARD 1100-SC

Upper application limit temperature EN 1094-6	°C	1050
Bulk density (± 10 %) EN 1602	kg/m ³	255
Open porosity (in acc. with standard) EN 993-1	%	90
Compression strength EN 826	MPa	1.6
Flexural strength EN 12089	MPa	0.5
pH-value EN 13468		approx. 9
Shrinkage after 12 h by upper application limit temperature Length and width EN 1094-6	%	1.0
Thermal conductivity λ at tm		
200 °C	W/(m K)	0.08
400 °C	W/(m K)	0.10
600 °C	W/(m K)	0.14
800 °C	W/(m K)	0.18
EN 12667		
Specific thermal capacity	kJ/(kg K)	0.8 – 1.2
Coefficient of thermal expansion RT-750°C DIN 51045-5		
⊥ perpendicular to board plane	K-1 x 10 ⁻⁶	⊥ 6.4
// parallel to board plane	K-1 x 10 ⁻⁶	// 6.4
Chemical composition		
Calcium silicate	%	91
Rx Ox (R=Fe, Ti, K, Na)	%	1
Annealing loss	%	8
Dimensions		
Standard sizes Length x width mm		500 (±2) x 1,250 (0/+10) 1,000 (±2) x 1,250 (0/+10) 1,500 (±2) x 1,250 (0/+10) 1,000 (±2) x 625 (±2)
Thickness mm 20/25/30/40/50/60/65/70/75/80/90/100		
Tolerances standard board unpolished		
Thickness mm ≤ 50 ± 2; > 50 -3/+2		
ground on one side ±0.6		
ground on both sides ±0.4		