



Technical Data Sheet Calcium Silicate Box

Property	Units	H-800 Grade	H-100 Grade	H-1100 Grade
Temperature, max service	Deg C	800	1000	1100
Average Bulk Density, Dry	Kg/m ³	220-280	240-280	260-300
Flexural Strength (Min.)	KN/m ²	300	350	300
Compressive Strength, reduction in thickness not to exceed under a load of:	%			
I) 415 KN/m ² , dry		5	5	5
II) 170KN/m ² , after 18hrs immersion in water		5	5	5
Heat Resistance, under soaking	%			
I) Linear Reheating Shrinkage (Max.) 12hrs		2 at 800°C	2 at 950°C	1.5 at 1050°C
II) Loss In Mass (Max.)		14	12	10
II) Compressive strength, reduction in thickness not to exceed under a load of 345 KN/m ² (Max.)		5	5	5
Thermal Conductivity at mean temperature (Max.)	W/m-K			
300°C		0.078	0.078	0.076
400°C		0.097	0.097	0.09
500°C			0.118	0.11
550°C				0.114
Moisture contents, by weight (Max.)	%	5	5	5
Alkalinity	pH	8-11	8-11	8-11