

## TECHNICAL DATA SHEET

### Darco **CSB1100/270** Calcium Silicate Board

Darco **CSB1100/270** Calcium Silicate Board, rated to 1100°C, is a less expensive alternative to our ceramic fiber insulation. It has higher compressive strength but more dusty and brittle so less forgiving to movement and flexing compared to more expensive ceramic fiber.

#### Stocked sizes are:

**CSB1100/270/25/10CTN**, 25mm x 500 mm x 1000 mm, 10/ctn

**CSB1100/270/50/5CTN**, 50mm x 500 mm x 1000 mm, 5/ctn

#### Features

- Excellent waterproof performance
- No oil absorption, no water absorption, maintain the stability of the insulation performance.
- Non asbestos, no toxic and harmless to human body.
- High strength.
- Excellent corrosion resistance
- Excellent sound insulation



Physical Properties		
Density	Kg/m <sup>3</sup>	250 ± 10%
Service Temperature	°C	1,100
Linear shrinkage after heating (1050°CX3hrs)	%	≤2
Bending Strength	MPa	≥0.36
Tensile Strength	MPa	≥0.90

#### ADVANTAGES

- High temperature stability
- Low thermal conductivity
- Low heat storage
- Good flexural and compressive strength
- Excellent corrosion resistance
- Thermal shock resistance
- Close tolerance with excellent surface finish
- Easy to cut, drill or saw

#### TYPICAL APPLICATIONS

- Furnace linings
- Kiln furniture
- Hot gas duct linings
- Refractory backup insulation
- Launder insulation
- General molten metal contact
- Distribution systems for molten metals
- Fire protection systems
- High temperature gasket and seals
- Expansion joint material
- Fire protection system
- Combustion chamber insulation
- All sectors of industrial activity, Do-it yourself

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	Unit	Calcium Silicate Board 1100	
Max Working Temperature	°C	1050	
Colour		White	
Density	Kg/M3	250+/-10%	
Compressive Strength	Mpa	≥1.0	
Rupture Strength	Mpa	≥0.55	
Linear Shrinkage after heating 1000°C*3h	%	≤1.5	
Thermal Conductivity	Mean 20 °C	W/m.k	≤0.062
	200 °C	W/m.k	≤0.080
	400 °C	W/m.k	≤0.105
	600 °C	W/m.k	≤0.132
	800 °C	W/m.k	≤0.165
CaO	%	≥36	
SiO2	%	≥55	
Fe2O3	%	≤1	
Al2O3	%	≤0.5	