

Rigid Insulation

SIB (Structural Insulation Board)

GENERAL

This structural insulation board, typically with product names such as NAD 11 and C-Therm, is an asbestos free, cement sheet. A high density board with inorganic fibres is suitable for a wide range of applications up to 500°C.

APPLICATIONS

This product is recommended for applications that require dimensional stability, mechanical strength, has good machining capabilities and is non-combustible.

Typical applications are as follows:

- Cathode support pads
- Element supports
- Furnace plates
- Platen Insulation
- Oven Cladding
- Induction furnaces

PROPERTIES

Physical			
Item	Description		
Sizes available	1220 x 910	6mm to 75mm	Full Sheet
Cut panels may be supplied upon request			
Physical			
	Units	Data	Additional information
Density	kG / M ³	1750	
Moisture absorbsion	Percent	15%	95% RH for 24 Hours
Maximum Service Temperature	°C	500	
Compressive Strength	MN / M ²	118	
Flexural Strength	MN / M ²	32 @ ambient	After 24 hours
		24 @ 350°C	
		22 @ 500°C	
Thermal Conductivity	W/M K	0.37 @ 100oC	
		0.42 @ 150oC	
		0.47 @ 200oC	
Thermal Shrinkage	Linear %	0.21 @ 350oC	After 24 hours
		0.25 @ 500oC	
		0.57 @ 705oC	
Volume Resistivity	MΩ / cm	1.0 x 10 ⁴	