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Calcium silicate insulating boards for back-up insulation – up to 1100°C (2012°F)

SUPER-ISOL · SUPER-1100 E

Description

The SKAMOL SUPER calcium silicate boards cover a range of extremely lightweight insulating boards with excellent insulating value, high mechanical strength and good heat resistance. The boards are designed for maximum service temperatures of 1000°C (1832°F) or 1100°C (2012°F), are light grey and have smooth, rigid and non-dusting surfaces. Three grades are available:

- SUPER-ISOL
- SUPER-1100 E

Due to exceptional heat resistance both grades of SKAMOL SUPER calcium silicate boards will withstand continuous heat up to their full temperature use limit. The low thermal conductivity provides top insulation throughout the temperature range.

Jointing mortar recommended: SKAMOL FL-06, see separate data sheet "SKAMOL insulating mortars".

Fire hazard classification according to BS 476, Part 4:1970 and DIN 4102, A1: non-combustible, no flame, no smoke.

Surface treatment

Standard board sizes can be treated with an inorganic compound to render the surfaces water-repellent. For easy identification the water-repellent coating is light blue. When so ordered please specify the product grade followed by "WR".

Standard sizes

SKAMOL SUPER calcium silicate boards are available in the following standard sizes:

Standard sizes	
Metric	
Length × width: 2440 × 1220 mm 1220 × 1000 mm 1000 × 610 mm 1000 × 305 mm	Thickness: 25 through 100 mm
US/British:	
Length × width: 96" × 48" 48" × 36" 36" × 24" 36" × 12"	Thickness: 1" through 4"

The product composition allows for easy cutting of derivatives on site using ordinary wood-working tools. Special shapes machined to customer specification can be supplied for specific design requirements.

Dimensional tolerances

Length and width ± 2.5 mm (0.10")
 Thickness ± 1.5 mm (0.06")

Application

SKAMOL SUPER calcium silicate boards are designed for the application as back-up insulation of all refractory constructions – dense firebrick, insulating firebrick, castables, plastic refractories, etc. The combination of high performance features makes the range of SKAMOL SUPER calcium silicate boards the ideal choice for efficient insulation of kilns, furnaces, ovens, stoves, boilers, soaking pits, regenerators, mains and other combustion or high-temperature process equipment. Due to their high resistance to carbon monoxide and hydrocarbons SKAMOL SUPER calcium silicate boards can be used in furnaces with reducing atmospheres. No disintegration of carbon deposition is found after 200 hours' exposure to CO at 450°C (842°F).

