

# SKAMOTEC 225

## Lightweight solution



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## SKAMOTEC 225

### Description

SKAMOTEC 225 core material is a lightweight calcium silicate board, which is classified as non-combustible according to ISO 1182:1990 (annex A), NT FIRE 001 and DS 1057.1.

SKAMOTEC calcium silicate boards have been tested for quartz and asbestos content by The National Institute of Occupational Health, Denmark. No content of quartz or asbestos has been detected.

SKAMOTEC 225 boards are available in max. dimensions of 2440 x 1220 mm and thicknesses 19 - 100 mm. Customer specific dimensions may be derived from standard board sizes. Boards can be sanded on both sides on request.

The following skin materials can be applied onto the SKAMOTEC core material:

- Steel
- Aluminium
- 3-Plywood
- MDF
- Chipboard
- Poly laminate

### Standard sizes

(min. thickness 19 mm is achieved by sanding)

SKAMOTEC 225		
Length x width mm	Thickness mm	Weight per board kg
1220 x 1000	19-100	5.2 – 27.5
2040 x 1220	19-60	10.6 – 33.6
2440 x 1220	19-60	12.7 – 40.2

Special sizes are made to order. Sanding on request.

### Product profile

SKAMOTEC 225 core material is characterized by:

- Non-combustibility
- Extremely lightweight
- Good mechanical characteristics
- Frost resistant
- Low hygric expansion and contraction
- Good thermal resistance
- Rot resistant
- Environmentally friendly
- Easy to machine and work with

### SKAMOL SuperPro Glue

A specially developed glue, SKAMOL SuperPro, is used to glue skin materials to the boards. For product details please see separate data sheet.

### Tolerances

SKAMOTEC 225	Trimmed	Sanded
Length/width mm	± 2.5	± 2.5
Thickness mm	± 1.5	± 0.5

## SKAMOTEC 225

Grade	SKAMOTEC 225	
<b>Maximum service temperature</b>		
	°C	1000
<b>Bulk density, dry</b>		
	kg/m <sup>3</sup>	225
<b>Compressive strength (EN 1094-5: 1995)</b>		
	MPa	2.6
<b>Modulus of rupture (EN 993-6: 1995)</b>		
	MPa	1.9
<b>Coefficient of reversible thermal expansion (BS 1902: section 5.3: 1990)</b>		
@ 20°C-750°C (68°F-1382°F)	m/(mK)	5.5x10 <sup>-6</sup>
<b>Coefficient of hygric expansion (DTI report)</b>		
@ 23°C 50%RH to 23°C 10%RH	mm/(m%RH)	4.0x10 <sup>-3</sup>
<b>Coefficient of hygric contraction (DTI report)</b>		
@ 23°C 50%RH to 23°C 100%RH	mm/(m%RH)	0
<b>Sound reduction index</b>		
	dB	
	Thickness 19 mm	24
	Thickness 38 mm	27
	Thickness 60 mm	29
<b>Thermal conductivity (ASTM C-182)</b>		
mean temp.	@ 20°C	W/(m×K)
	@ 200°C	0.04
	@ 400°C	0.06
	@ 600°C	0.08
		0.10
<b>Chemical analysis, typical</b>		
	%	
Silica	SiO <sub>2</sub>	45
Calcium oxide	CaO	45
Loss on ignition 1025°C (1877°F)	LOI	8
<b>Water content</b>		
	%	2.5
<b>Colour</b>		
		Grey
<b>Non-combustibility test:</b>		
		ISO 1182:1990, NT FIRE 001 and DS 1057.1.

*Material safety data sheet is available on request.*

Data are average results of tests conducted under standard procedures and are subject to variation. Data contained in this data sheet are supplied in good faith as a technical service and are subject to change without notice. Misprint and errors excepted.

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