



SKAMOTEC 225

for building fireplace surrounds and mold remediation

Description

SKAMOTEC 225 is a lightweight non-combustible board that provides total fire protection for residential and commercial buildings.

With an excellent R-value, high mechanical strength and low thermal conductivity, this material is ideally suited for building fireplace surrounds and interior insulation / mold remediation.

The advantage of Skamotec 225: It eliminates the use of traditional frame construction, making it easier and faster to install, for labor-saving efficiency.

Standard sizes

Metric	
Length x width: 1000 x 610 mm 1220 x 1000 mm	Thickness: 25 through 100 mm
2040 x 1220 mm 2440 x 1220 mm	25 through 55 mm
US/British	
Length x width: 39" x 24" 48" x 39"	Thickness: 1" through 2.4"
80" x 48" 96" x 48"	1" through 2.2"

Special sizes are made to order. Sanding on request.

Dimensional tolerances

Length and width ± 2.5 mm (0.10")
 Thickness ± 1.5 mm (0.06")
 - sanded one side (min. 50 mm) ± 0.5 mm (0.02")
 - sanded both sides ± 0.3 mm (0.01")

Weight

At thickness 25.4 mm (1.0")..... 5.663 kg/m² (1.16 lb/ft²)

Performance Benefits

- Fire protection, non-combustible
- Excellent insulation value
- Maximum service temperature 1000°C (1832°F)
- Ease of installation; lightweight and rigid
- Easy to shape with ordinary woodworking tools
- Ideal for renovation additions and new construction
- Mold protection
- Good moisture permeability
- Good capillarity action
- Environmentally friendly

CE marking

SKAMOTEC 225 boards are delivered with CE marking according to EN 14306 (2009) class A1 non-combustible.



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Grade		SKAMOTEC 225
Maximum service temperature		
	°C	1000
	°F	1832
Bulk density, dry		
	kg/m ³	225
	lbs/cu.ft.	14
Compressive strength (EN 1094-5: 1995)		
@ room temperature	MPa	2.8
	lbs/sq.in.	406
Modulus of rupture (EN 993-6: 1995)		
	MPa	1.4
	lbs/sq.in.	203
Specific heat		
	kJ/(kg×K)	0.84
	BTU/(lb×°F)	0.20
Coefficient of reversible thermal expansion (BS 1902: section 5.3: 1990)		
@ 20°C-750°C (68°F-1382°F)	K ⁻¹	5.5x10 ⁻⁶
	°F ⁻¹	3.1x10 ⁻⁶
Coefficient of hygric expansion (DTI report)		
@ 23°C 50%RH to 23°C 10%RH	mm/(m%RH)	4.0x10 ⁻³
Coefficient of hygric contraction (DTI report)		
@ 23°C 50%RH to 23°C 100%RH	mm/(m%RH)	0
Sound reduction index		
Thickness 19 mm	dB	24
38 mm		27
40 mm		29
Thermal conductivity (ASTM C-182)		
mean temp. @ 20°C	W/(m×K)	0.06
@ 200°C		0.08
@ 400°C		0.10
@ 600°C		0.12
@ 68°F	BTU/(sq.ft×h×°F/in)	0.42
@ 392°F		0.55
@ 752°F		0.69
@ 1112°F		0.83
Chemical analysis, typical		
Silica	SiO ₂	45
Calcium oxide	CaO	45
Loss on ignition 1025°C (1877°F)	LOI	8
Water content		
	%	2.5
Non-combustibility tests (EN 13501-1:2007 + A1:2009)		
Classification		Class A1 non-combustible
HS Tariff number		
(Harmonized Commodity Description and Coding System)		6806.90.00
Colour		
		GREY

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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