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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:	Thickness:	
1000 x 610 mm	25 through 100 mm	
1220 x 1000 mm		
2040 x 1220 mm	25 through 55 mm	
2440 x 1220 mm	25 through 55 mm	
US/British		
Length x width:	Thickness:	
39" x 24"	1" through 2.4"	
48" x 39"		
80" x 48"	1" through 2.2 "	
96" x 48"	T tillough 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 class A1 non-combustible (DIBt Z-43.14-196).

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Grade		SKAMOTEC 225	
Maximum service temperature			
	°C	1000	
	°F	1832	
Bulk density, dry			
	kg/m³	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	
0 17 1	lbs/sq.in.	203	
Specific heat	L.1/h 2/A	0.61	
	kJ/(kg×K)	0.84	
Coefficient of recognities the arrest conservation (DC 4000)	BTU/(lb×°F)	0.20	
Coefficient of reversible thermal expansion (BS 1902: s	ection 5.3: 1990) K ⁻¹	F F.:40-6	
@ 20°C-750°C (68°F-1382°F)	د. د.	5.5x10 ⁻⁶	
Coefficient of hygric expansion (DTI report)		3.1x10 ⁻⁶	
@ 23°C 50%RH to 23°C 10%RH	mm/(m%RH)	4.0x10 ⁻³	
Coefficient of hygric contraction (DTI report)	IIIII/(III/oKri)	4.UX1U	
@ 23°C 50%RH to 23°C 100%RH	mm/(m%RH)	0	
Sound reduction index	111111/(111701X11)	0	
Thickness 19 m	m dB	24	
38 m		27	
40 n		29	
Thermal conductivity (ASTM C-182)	··		
mean temp. @ 20	C W/(m×K)	0.06	
<u>@</u> 200	· · ·	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			
	ISO 1182:1990 - NT FIRE 001 - DS 10	ISO 1182:1990 - NT FIRE 001 - DS 1057.1 - DiBt Z-43.14-196	
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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