

CS-FIRE GUARD

Passive fire protection, cost effective and proven

APPLICATIONS

Partition Walls, steel protection, ventilation and smoke-extraction ducts, mechanical & electrical service enclosures and Cable protection.

MATERIALS

CS-Steel Fire Guard is a non-combustible medium density calcium silicate board, used for the construction of non structural passive fire protection. It is a Class 0 product as defined in the Building Regulations.

MOISTURE-RESISTANT, MOLD & FUNGUS

The panel is not weakened when wet. The high pH value makes the board very resistant to attack by mold and fungus. The panel will not rot or degrade in a humid environment.

FASTENING AND FIXING

Nails can be driven directly through boards without pre-drilling provided they are at least ½” from the edge of the panel, and the back side of the board is fully supported. In areas of high humidity, galvanized nails should be used. Panel pins, oval or lost head nails should not be used. Nails should be located 1 ½” from corners. Nailing is the most economical method of fastening using pneumatic nailing and stapling equipment.

CUTTING

The panel can be cut with conventional electrical woodworking equipment and proper blades. Cutting should be carried out using dust extractors. Operators should wear protective face masks.

Technical Specifications

- CS-Fire Guard
Calcium Silicate Board**



Dimensions

Length standard	feet	8'9"/10'
Width standard/max	feet	4'
Thickness standard	inches	1/4", 3/8", 1/2", 7/16", 9/16"
Color standard		Sand colored
Edge design		Tapped or right-angled
Tolerance thickness	mm	+/- 0,3
Tolerance Length	mm	+/- 3
Tolerance Width	mm	+/- 3
Asbestos	%	0.0
Working temperature	max. Degrees	-40+120

Weight

Density, dry	lb/ft ³	70-78
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Fire Properties

Fire class	ASTM E136	Noncombustible
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Water Vapor Transmission (23 degrees – (50 +/- 5% RH)

8 mm Z value (GPa m2 s/kg)	EN 12572	0.551
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Hygroscopic Properties and pH

Expansion from dry to wet	%	0.06
Moisture content at delivery	%	< 18
pH value	pH	10

Thermal Properties

Thermal conductivity	W/mC [®]	0.22
Coefficient of thermal expansion	mm/m C [®]	0.008

Bending Strength MPa

Bending strength – dry – longitudinally	MPa	11
Bending strength – dry – across	MPa	8
Modulus of elasticity	GPa	3.8