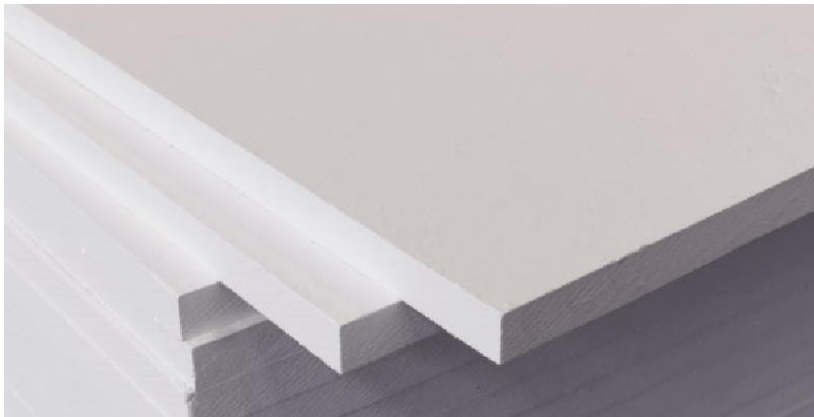


PVshelter Fire Protection Plate



Structural calcium silicates

PVshelter Fire Protection Plate is a rigid insulation board with a low thermal conductivity. They are specifically formulated without asbestos and mineral fibres.

PVshelter Fire Protection Plate has a low shrinkage and high strength and therefore provide effective and stable insulation solutions for industrial applications.

PVshelter Fire Protection Plates combine high mechanical strength, good thermal and electric insulation at high temperatures.

Technical Data

Colour		white/grey
Building material class	EN 13501	A1, non-combustible
Classification temperature	°C	1050
Nominal density	kg/m ³	300
Cold compressive strength	N/mm ²	> 2.5
Shrinkage		
1000 °C – 12 h	%	-
1050 °C – 12 h	%	< 2
Thermal conductivity		
200 °C	W/mK	0.075
400 °C		0.084
600 °C		0.101
800 °C		0.125
Specific heat capacity	kJ/kg K	1.03
Reversible thermal expansion		
20–400 °C, after 2 nd heating	K ⁻¹	5.4x10 ⁻⁶
Chemical analysis		
SiO ₂	%	40-42
CaO	%	38-80
Others	%	9-13
LOI	%	9
UV and weather resistant		Yes

Product specifications

Length	mm	1700
Width	mm	1220
Thickness	mm	19,5
Weight	kg	20.33

Production tolerances

Length and width	mm	± 3.0
Thickness	mm	± 0.5

PVshelter Fire Protection Plate

Properties & advantages

- Low thermal conductivity
- High mechanical strength
- High electrical and arc resistance
- Chemical resistance
- Moisture resistance
- Excellent machinability to close tolerances
- Tough and durable
- Dust free surface
- Asbestos free

Application areas

OIL AND GAS

- Fired heaters
- Pipe supports

HEAVY INDUSTRY

- Anode baking furnace and electrolysis cells
- Melting and heat treatment furnaces
- Bogie hearth furnaces, kiln cars
- Heat exchangers and cyclone separators

Working & processing

PVshelter Fire Protection Plate can be easily worked and accurately machined with woodworking tools.

When cutting to size, the maximum workplace concentration values for inhalable dust must be observed. Dust extraction is recommended. See product safety information sheet.

Thermal conductivity

