



Siltherm Panel FP

Rigid Fire Rated Microporous Insulation

Siltherm FP is a fire rated, large sized microporous insulation panel specifically developed for elevator landing lift doors and industrial fire doors.

This is a rigid insulation product, manufactured with a glass cloth outer envelope, making the panel clean, easy to handle and manipulate.

The microporous insulation core is an opacified blend of pyrogenic silica with a filament reinforcement.

Siltherm Panel FP has been specifically developed to deliver **space and weight saving fire rated solutions** for elevator landing door systems, combining the requirements and standards based on EN 81-58.

This is a **real alternative** where requirements are for a thin, low weight insulation **solution with a Class A Fire Rating**.

Features and Benefits

- Wide range of sizes available to order
- Thin
- Low in weight
- Wide range of sizes available to order
- Inorganic and non-combustible
- Extremely low thermal conductivity
- High thermal stability
- No harmful respirable fibres
- Environmentally friendly
- Resistant to most chemicals
- Class A Fire Rated

Typical Applications

- **Elevator landing doors**
(E160, E190, E120 ratings)
- **Industrial fire doors**
(A60, A90, A120 ratings)



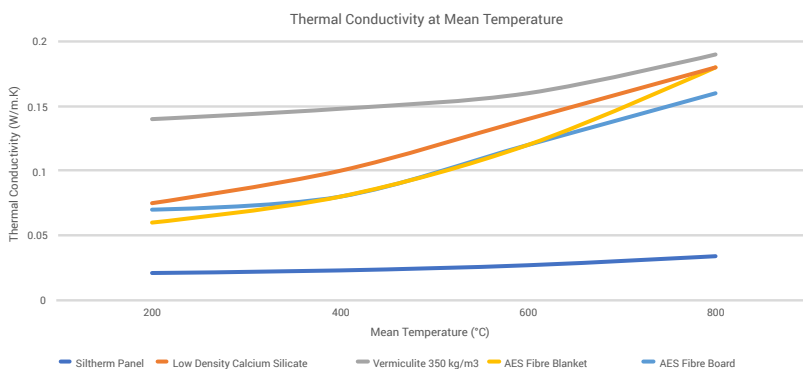
Technical Specification

Product Panel FP			
Classification Temperature		°C	1000
Nominal Density		kg/m ³	280
Compressive Strength @ 10% deformation		MPa	0.20
Thermal Conductivity*	200 °C	W/m.K	0.022
*Core tested according to ASTM C 177 : 2013	400 °C	W/m.K	0.023
	600 °C	W/m.K	0.027
	800 °C	W/m.K	0.034
Specific Heat Capacity	200 °C	kJ/kg.K	0.93
	400 °C	kJ/kg.K	1.03
	600 °C	kJ/kg.K	1.06
	800 °C	kJ/kg.K	1.10
Linear Shrinkage	12h full soak @ 1000 °C	%	≤0.5
Linear Shrinkage	24h full soak @ 1000 °C	%	≤5

Standard Dimension and Format Availability*

Product Panel FP	Fire Rating	Length x Width (mm)	Thickness (mm)
	A90/EI90	2700 x 700 (maximum)	±15
	A90/EI90		±18
	A120/EI120		±20
Length and Width Tolerance		± 6	
Thickness Tolerance			±1

* Special coverings and Hydrophobic grade – available upon request



Siltherm products offer a realistic alternative to other lightweight insulations

Siltherm products offer a **realistic alternative** compared to other lightweight insulation solutions, such as low density calcium silicate, vermiculite, fibre or wool based blankets and boards. The thermal resistance provided by Siltherm products is a **cost competitive alternative** to the other lightweight insulation solutions on the market, whilst also delivering benefits in terms of space optimisation and reduced weight.



The values given in this datasheet are typical and subject to normal manufacturing variation, they are for guidance only and maybe subject to change without notice. Recommendations for use are not intended to, and do not constitute a warranty, express or implied, of the suitability of the product for a particular use. The user is responsible for determining the suitability of Siltherm products for each application.

SILTHERM

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Siltherm Group Holdings Ltd maintains a Quality Management System to: **ISO 9001: 2015 Certificate Registration Number CN-00219Q20582R1S**
IQNet Certificate Issued by CQM for scope 'Research and development, production and after-sales service of nano thermal insulation materials'