

ELITE FRP® (Fire rated)

Product

Elite FRP® is a durable, semi-rigid building material made of fibreglass reinforced plastic (FRP).

Purpose

Elite FRP® panels are designed for interior wall and ceiling finishes where a durable, hygienic, easy to clean surface is required.

Certification and Identification

1. The panel has a Class '1' flame spread (per BS476 Part 7) and Class 'O' fire propagation (per BS476 Part 6).
2. FRP Does not support mould or mildew (per ASTM D3273 and ASTM D3274).
3. Factory mutual certified ASTM E 84(95b) 3DOQ4.AM Flame spread 20 Smoke density 330.

Operational Temperature Range

Panels will perform in temperatures from -40°C (-40°F) to 54°C (130°F).

Design Data

Nominal Thickness	Colour Options	Size	Finish
2.3mm	White	1200mm x 2400mm or 3000mm	Embossed or smooth

Physical Properties

Property	Typical Value	Test Method
Flexural Strength	10000 psi	ASTM D790
Flexural Modulus	3.1 x 10 ⁵ psi	ASTM D790
Tensile Strength	7000 psi	ASTM D638
Tensile Modulus	3.1 x 10 ⁵ psi	ASTM D638
Barcol Hardness	35	ASTM D2583
Izod Impact Strength	7.16ft-lb/in	ASTM D256
Gardner Impact Strength	45 in-lbs (5.1 J/mm)	ASTM D3029
Coefficient of Linear Thermal Expansion	2.22 x 10 ⁻⁵ in/in/°F	ASTM D696
Water Absorption (%)	0.72%/72 hrs @ 25°C (77°F)	ASTM D570
Specific Gravity	1.5743	ASTM D792
Surface Burning Characteristics	Class '1'	BS476 Part 7
Taber Abrasion Resistance	0.391% max wt loss	Taber Test