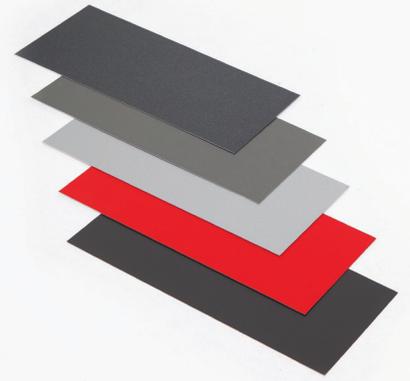


FIREFLY Solid Aluminium Panels



Material Description

FIREFLY Solid Aluminium Panels are non-combustible, and made from 5052 marine grade aluminium, making them highly corrosion resistant. The FSA panels are extremely durable, featuring three layers of superior PVDF coating. As such they offer an ideal solution for a vast range of applications.

Applications

Panels are available in a broad spectrum of colours that match all types of landscapes. Whether you require contemporary or bold colours, sophisticated and pearlescent metallics, or even subdued palettes that blend in with the environment, our panels will undoubtedly enhance the look of any building facade. Panels can be colour matched and folded or pressed to suit your project.

Certification

Tested to AS1530.1 and AS1530.3 - refer to following page for details.

Features

- Non-combustible
- 5052 marine grade aluminium
- Three layers of superior PVDF Coating
- 20 year warranty
- 100% recyclable

Test Standard FIREFLY 3mm Solid Aluminium Panel			
AS1530.1	PASS	Non-combustible	0
AS1530.3	PASS	Spread of flame	0-1
	PASS	Ignitability Index	0
	PASS	Heat evolved	0
Product Properties	Test Standards	Units	Comments
Panel Weight		Kg/m ²	8.1kg
Grade of Aluminium			5052
Temper Grade			H32
Raw Density		Kg/m ³	2690
Width (footnote below)		mm	1250/1575
Length (footnote below)		mm	2500/3200
Tensile Yield Strength		MPa	193 (28,000 psi)
Ultimate Yield Strength		MPa	288 (33,000 psi)
Coat Layers		Layers	3 layers
Gloss	ASTM D523		60% minimum ^ 80% 33 MICRONS
Pencil Hardness	ASTM D3363 05 (2011)e2		F 3H
Humidity Test	ASTM D2247 ASTM D714 100% Relative Humidity @36C		Passes 4000hrs, NO 8 Blisters
Elongated Break		%	12
Adhesion	ASTM D3359		Dry: Class 5B, Wet: Class 5B Boiling Water: Class 5B
Abrasion Resistance	ASTM D968		70
Acid Test (Muriatic Acid Resistance (15 minute spot)	AAMA 2605 ASTM D1308		No blistering and no visual change in appearance
Nitric Acid Resistance	AAMA 2605-17a Section 8.7.3		ΔE=0.26
Reverse Impact	ASTM D2794		1.5 x metal thickness (Alloy) No cracking or adhesion loss
Coating	AAMA 620 AMMA 2605		Kynar 500 PVDF 70%
Dry Film Thickness	ASTM D1400		0.20-0.30 mm primer 0.70-0.80 mm topcoat
Waterproof & Wind Loading	AS/NZS4284 Clause 8.2 & 8.5 & 8.6		Servicability limit state - 2500 pa to +2500 pa. FP1.4 compliant.

Widths - Custom lengths can be arranged. Minimum width 800 mm. Minimum quantity 400 m².

Lengths - Custom lengths can be arranged. Minimum quantity 400 m².

Variation acceptance to above

Width - ±2.0 mm

Length - ±4.0 mm

Thickness - ±2% for 3 mm

Bow maximum - 0.5% of the length and/or width

Square maximum - 5.0 mm