

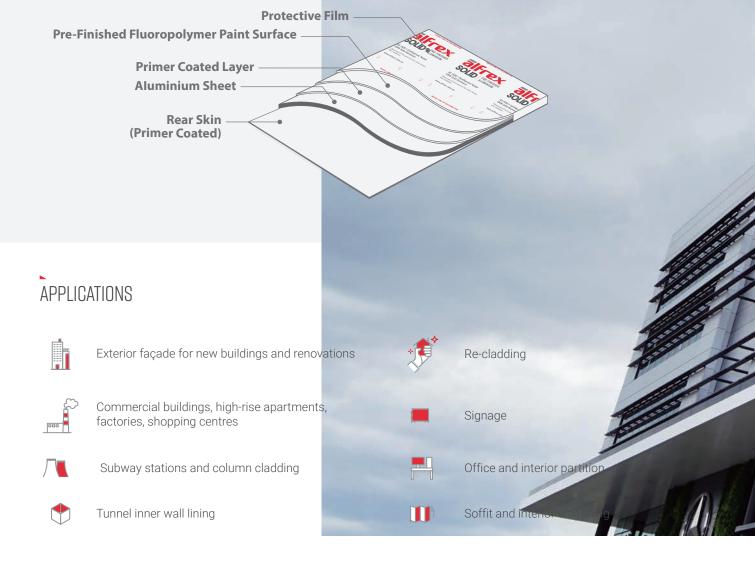


# AS 1530.1 CERTIFIED AND **100% SOLID ALUMINIUM**

ALFREX SOLID is a Pre-Finished Solid Aluminium Panel manufactured by high quality coil coating (roll-to-roll) continuous method. It features a Fluoropolymer based paint system that allows for high flexibility (2T / 2H) for ease of fabrication and is available in a wide range of colours and finishes. The rear surface of the panel is primer coated to minimize oxidization while the top surface is protected with an adhesive film to prevent damage during fabrication and installation.

Alfrex Solid is a 100% aluminium product and has no core material giving the product superior non-combustibility as per BCA C1.9 as a deemed-to-satisfy (DTS) product.

Alfrex Solid is exclusively manufactured at a state-of-the-art pre-finished coil coating facility in South Korea.





**PROJECT**: MERCEDES-BENZ AUTOHAUS **LOCATION**: BRISBANE (QLD)



# AS 1530.1 CERTIFIED AND TESTED 100% SOLID ALUMINIUM

#### DIMENSIONS

Total Thickness: 3mm
(2mm / 2.5mm available upon request)
Width: 1250mm / 1575mm
(custom widths available from 800mm upon request)

Length: 1800 - 4200mm (Min. 30 panels per length)

# TOLERANCE

Width:+/-2mm Length:+/-2mm Thickness:+/-0.1mm

Bow: 0.5% of the length and / or width

#### **FEATURES**

Non-Combustible AS 1530.1 Certified
Continuous Roll-to-Roll Coating System
Uniform Coating Appearance
Excellent Machinability
Wide Range of Colours
Pre-Finished with Fluoropolymer paint system
Superior 3003 Series H14 Aluminium

 $<sup>\</sup>hbox{$^\star$ For any inquires outside of these dimensions, please contact your local Alfrex Solid representative.}$ 

### TECHNICAL PROPERTIES

	Property (Alloy 3003 H14)		Test Standard	Unit	Result
	Physical Properties	Specific gravity	-	g/cc	2.72
		Weight	-	kg/sqm	8.1
	Mechanical Properties	Tensile strength	ASTM E8	MPa	148
		Yield strength	ASTM E8	MPa	135
		Elongation	ASTM E8	%	28

## FIRE RESISTANCE

Alfrex Solid is made from 100% aluminium and is BCA C1.9 compliant as a deemed-to-satisfy (DTS) non-combustible solution suitable for both new buildings and re-cladding applications.

This product has been certified by a NATA accredited test facility in Australia.

Test Standard	Result				
AS 1530.1	Non-Combustible				
	Pass	Ignitability Index	0		
AS 1530.3	Pass	Spread of Flame Index	0		
A5 1550.5	Pass	Heat Evolved Index	0		
	Pass	Smoke Developed Index	0-1		

# WEATHERPROOF TESTING

Alfrex Solid passed the AS/NZS 4284:2008 weatherproof and seismic testing with the following results.

Test Standard	Test	Result	
	Preliminary Tests	- Pass: Air pressure loading to +/- 2.25 kPa. - Water to 675 static, and 675 – 1350 cyclic test pressure.	
	Serviceability Deflection Test	- Studs met the deflection limit (+/- 2.25 kPa) Panels at +/- 2.25 kPa showed deflections of up to 7.5mm on the stiffener, and 11.4 mm off the stiffener.	
AS/NZS 4284:2008	Air Infiltration	- Air infiltration of the booth plus the sample met the requirement of <1.6 l/s.m2 (Gross leakage 20 l/s) at 150 kPa.	
	Static Water Penetration Test	- Pass at 675 kPa.	
	Cyclic Water Penetration Test	- Pass at 675 – 1350 kPa.	
	Seismic SLS Test	- Pass at displacements of +/- 15mm.	
	Seismic ULS Test	- Pass at displacements of +/- 60mm.	
	Ultimate Limit State Pressure Test	- Pass at +/- 3.2 kPa.	



#### **COATING SYSTEM**

Alfrex Solid is a Pre-Finished Solid Aluminium Panel manufactured by high quality coil coating (roll-to-roll) continuous method. It features a Fluoropolymer based paint system that allows for high flexibility (2T / 2H) for ease of fabrication and is available in a wide range of colours and finishes. The rear surface of the panel is primer coated to minimize oxidization while the top surface is protected with an adhesive film to prevent damage during fabrication and installation.

Please consult the Alfrex Solid colour chart for a list of our standard colour range including Solid, Standard Metallic and Metallic Pearl finishes. For more information on available colours and warranty details please contact your nearest Alfrex Solid sales representative.

#### **COATING DATA**

Property	Test Standard	2 Coat & 3 Coat
Gloss	ASTM D523	Standard@60°: 25-35
Pencil Hardness	ASTM D3363	F - 2H
Flexibility	T-Bend, ASTM D4145	0 - 2 T - Bend ; No pick - off
Adhesion	ASTM D3359 Reverse Impact 1/16' Crosshatch	No adhesion loss
Reverse Impact	ASTM D2794	No cracking or adhesion loss
Acid Resistance	ASTM D1308	No effect
Alkali Resistance	ASTM D1308 10%, 25%, NaOH, 1hr	No effect
Salt Spray Resistance	ASTM B117	Passes 4000 hrs. Less than 1/16" avg creepage from scribe.
Humidity Resistance	ASTM D714  ASTM D2247  100% Relative  Humidity@95°F	Passes 4000 hrs. No #8 blisters



**PROJECT**: BMW CAR SHOWROOM **LOCATION**: MELBOURNE (VIC)



PROJECT: CALVARY HOSPITAL LOCATION: ADELAIDE (SA)



www.csparchitectural.com.au

CSP Architectural Pty Ltd 1029 - 1035 Western Highway Deer Park VIC 3023

alfrexsolid@csparchitectural.com.au (03) 9361 9999



www.alfrex.com.au

Overseas Corporations Unience USA Inc. Unience Canada Unience South Korea Co. Ltd

info@alfrex.com.au





