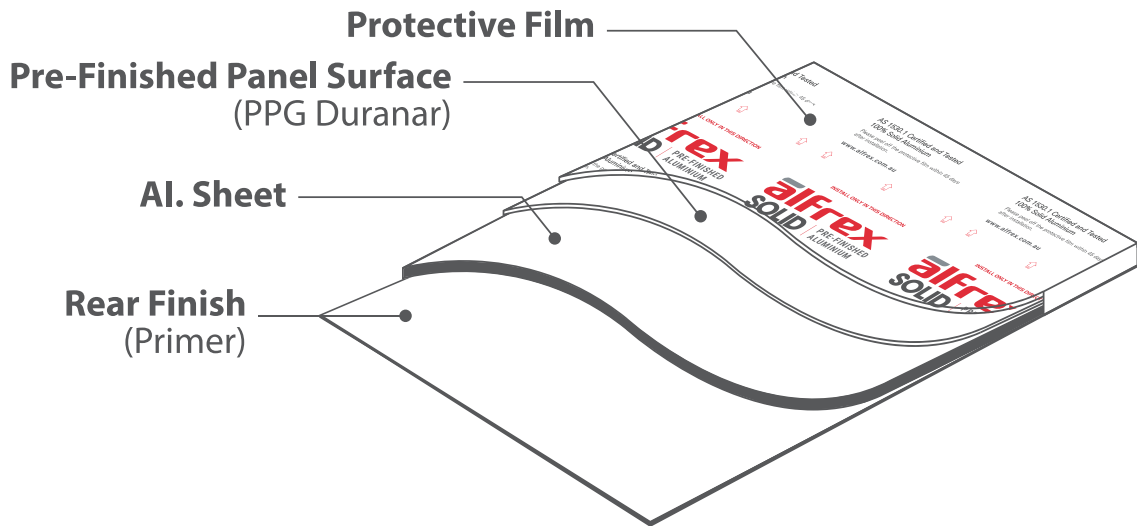


# PRODUCT INTRODUCTION

**alfrex**  
**SOLID** | PRE-FINISHED  
ALUMINIUM

# AS 1530.1 CERTIFIED AND TESTED 100% SOLID ALUMINIUM



Alfrex Solid is a PPG Duranar Fluoropolymer Pre-Painted Aluminium Solid Panel Manufactured by high quality Roll Coating (roll-to-roll continuous) method. It features a primer coating to protect the rear finish and can be easily fabricated to any shape or design. Alfrex Solid has no core material, giving the product superior fire resistance.

## APPLICATIONS



Exterior facade and interior panel for new buildings and renovations.



Re-cladding



Commercial building, high-rise apartment, factory, shopping centre.



Signage



Subway station and column cover



Office and interior partition



Tunnel inner wall cladding



PROJECT : AMBASSADOR HOTEL    FINISH : NATURAL ANODIZED



## DIMENSIONS

Total Thickness : 2mm / 2.5mm / 3mm

Width : 1050mm / 1250mm  
(On Demand: 1575mm)

Length : 1800 - 5000mm  
(Min. 20 panels per size)

## TOLERANCE

Width : +/- 2mm

Length : +/- 4mm

Thickness : +/- 0.1mm

Bow : 0.5% of the length and / or width

## FEATURES

Uniform Coating Appearance

Excellent Machinability

Wide Range of Colours

Maximum Thickness 3mm

## TECHNICAL PROPERTIES

Property (Alloy 3003 H14)		Test Standard	Unit	Result
Physical Properties	Specific gravity	-	g/cc	2.72
	Weight	-	kg/sqm	8.0
Mechanical Properties	Tensile strength	ASTM E8	psi	20,300
	Yield strength	ASTM E8	psi	17,400
	Elongation	ASTM E8	%	28

## FIRE RESISTANCE

Alfred Solid is constructed from 100% aluminum, rather than combustible polyethylene and fire retardant mineral such as typical Aluminium composite materials (ACM). BCA compliant as a Deemed-to-satisfy (DTS) Non-combustible solution for both new buildings and re-cladding application.

As with all building products, the use of Alfred Solid must be authorised by the regulatory body.

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



# AS 1530.1 CERTIFIED AND TESTED 100% SOLID ALUMINIUM

## COATING SYSTEM

Alfred Solid is pre-finished with DURANAR coatings combined with PPG proprietary resin and pigment technologies with 70% Fluoropolymer based resins.

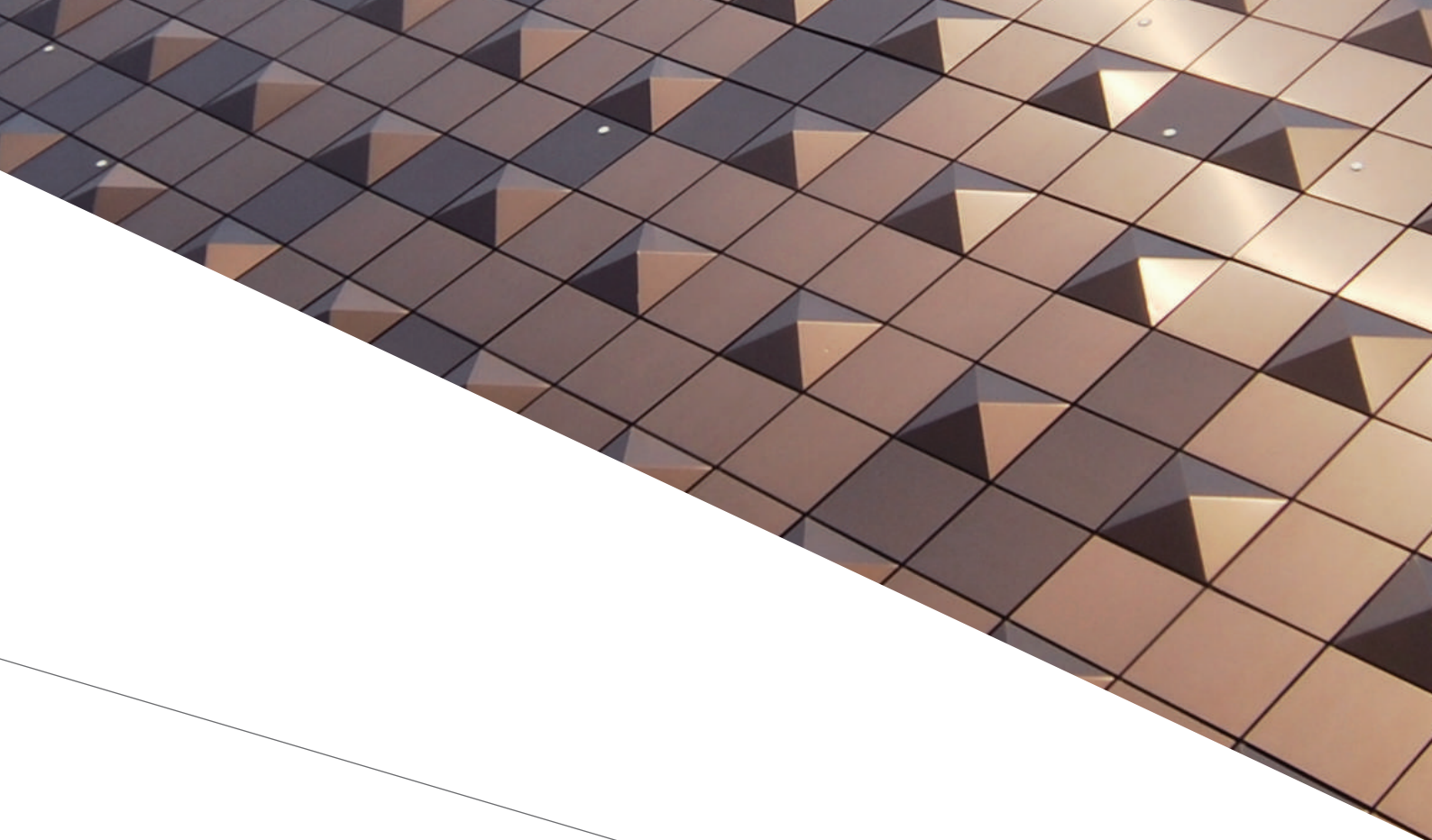
These premium paints provide an optimum resistance to weather and industrial pollution. More than 40 years of South Florida Exposure Testing is continuing to confirm the superior and physical properties of Fluoropolymer coatings.

## COATING DATA

Property	Test Standard	2 Coat & 3 Coat
Gloss	ASTM D523	Standard@60° : 20-40
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	1.5xMetal thickness(aluminium) No cracking or adhesion loss
Acid Resistance	ASTM D1308	10% Muriatic acid- No effect
Alkali Resistance	ASTM D1308 10%, 25%, NaOH, 1hr	No effect
Salt Spray Resistance	ASTM B117 5% Salt Fog@95°F	Less than 1/1' avg. creepage from scribe ; None or few #8 blisters
Humidity Resistance	ASTM D714 ASTM D2247 100% Relative Humidity@95°F	No #8 blisters



PROJECT : WELLTZ TOWER    FINISH : CONCRETE WHITE



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