

## TECHNICAL DATA

# PROMINIUM<sup>®</sup>

PROMINIUM<sup>®</sup> is Non-Combustible when tested to AS 1530.1  
as per the requirements of the BCA/NCC

PROMINIUM<sup>®</sup> is one of Australia's only Non-Combustible aluminium cladding panels purpose designed for use in new constructions and recladding applications.

Developed and manufactured by PROBOND, PROMINIUM<sup>®</sup> is a solid aluminium panel which offers exceptional fire performance, dependable servcability and a durable long-lasting PVDF finished face. It is a low maintenance solution to add high impact and striking features to create iconic landmarks.

The elevated mechanical properties, outstanding surface flatness and simple fabrication mean PROMINIUM<sup>®</sup> is perfectly suited to cladding requirements within commercial, residential and high elevation developments.

PROMINIUM<sup>®</sup> is also an efficient, cost-effective method for transforming older structures - creative, contemporary new looks are easily achieved as PROMINIUM<sup>®</sup> is ideal for retro-fitting over existing facades.

PROMINIUM<sup>®</sup> requires minimal maintenance and provides excellent long-term performance making it the first choice for all aluminium cladding projects.

### ADVANTAGES OF PROMINIUM

- Non-combustible when tested to AS 1530.1
- Exceptional quality solid aluminium - rigid and dent resistant
- Durable UV resistance and colour retention
- Specify with confidence without compromising aesthetics
- Cost effective, large stock holdings and short lead times

## 1. TYPICAL COMPOSITION

### Material

3.0mm 3003 Series solid aluminium offering superior performance, improved rigidity and excellent processing when CNC cutting and folding.



### Paint Finish

The most durable coating available - PPG Kynar 500 PVDF Coating for long-term outdoor durability. Standard PVDF range is Satin Finish.

### Protective Film

Designed to protect the panel during transit and installation, the film is clearly marked with the panel type for easy identification.



AS 1530.1  
NON-COMBUSTIBLE

**KYNAR500**<sup>®</sup>

## 2. TECHNICAL DATA

CLASSIFICATION	PROMINIUM	
Panel Weight	8.2kg/m <sup>2</sup>	
Thickness	3mm	
Width	1500	
Tensile Strength	160MPa	
SURFACE PROPERTIES (PVDF COATINGS)		
Overall Paint Thickness (microns)	27-28 µm	
Dry Film Thickness (Nominal)	ASTM D1400	0.20-0.30 mil primer 0.70-0.80 mil topcoat
Gloss	ASTM D523	Standard @ 60°: 25-35 Durandar LG @ 85°: <10
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	1.5 x Metal thickness (aluminium): No cracking or adhesion loss
Acid Resistance	ASTM D1308	10% Muriatic acid - 24 hrs: No effect
Acid Rain Test	Kesternich SO <sub>2</sub> , DIN 50018	15 Cycles min. No objectionable colour change
Alkali Resistance	ASTM D1308 10%, 25%, NaOH, 1 hr.	No effect
Salt Spray Resistance	ASTM B117 5% salt fog @ 95°F	Passes 4000 hrs. Less than 1/1' avg. creepage from scribe; None or few #8 blisters
Humidity Resistance	ASTM D714 ASTM D2247 100% relative humidity @ 95°F	Passes 4000 hrs. No #8 blisters
Exterior Exposure	10 years @ 45°, South Florida ASTM D2244 ASTM D4214	Maximum 5 fade Maximum 8 chalk

### 3. FIRE RESISTANCE

While the visual aspect of modern architecture is vital, form and function are also significant factors, as such, sustainability and fire protection are critical considerations.

PROMINIUM® is one of the few Aluminium Composite Panels produced globally that is recognised as non-combustible under the Building Code of Australia (BCA) and when tested to AS1530.1.

PROMINIUM® offers exceptional fire performance and its categoration as non-combustible in accordance with AS1530.1 sets it apart from many other offerings on the market.

This makes PROMINIUM® the ideal product for applications where fire resistance is required and where fire safety is essential, including schools, hospitals and high-rise environments.

As with any building product, the use of PROMINIUM® must be authorised by the appropriate regulatory body.

The Fire Resistance standards achieved by PROMINIUM® are:

PROMINIUM	
TEST STANDARD	RESULT
AS1530.1	NON-COMBUSTIBLE

### 4. ACCEPTANCE VARIATION

Width	± 2.0 mm
Length	± 4.0 mm
Thickness	± 2%
Bow Maximum	0.5% of the length and/or width
Squareness Maximum	5.0 mm
Surface Defects	The surface shall not have any irregularities such as dents, scratches and other imperfections in accordance with our quality assurance

**5. TECHNICAL DATA OF KYNAR 500 PVDF COATING**

CLASSIFICATION	TEST STANDARD	RESULT	REMARKS
Substrate	ASTM D1005	Pass	Aluminium
Flexibility	ASTM D4145 ECCA T7 NCCA11-19	Pass	1~2T - No Cracking
DFT	ASTM D1400 ASTM D1005 NCCA11-13,14,15	Pass	
Colour Difference	ASTM 2244	$\Delta E < 5$	4000 hrs
Gloss Meter	ASTM D523	Pass	
Gloss Retention	ASTM 2244	85%	4000 hrs
Chalking Resistance	ASTM 2244	<8 units	4000 hrs
Pencil Hardness	ASTM D3363	HB	
Dry Film Adhesion		Pass	38°C, 24 hrs
Wet Adhesion		Pass	100°C, 24 hrs
Hot Adhesion		Pass	
Reverse Impact Resistance	ASTM D2794	No Cracking	12.7mm x 0.5kg x 500mm
Bending/Gardner Impact	ASTM D3281	Pass	Normal
Solvent Resistance	ASTM 2794	Pass	MEK double rubs
Acid Resistance	ASTM 1308	Pass	7 days soaking in 10% H2SO4
Alkali Resistance	ASTM 1308	Pass	7 days soaking in 10% NaOH
Detergent Resistance	ASTM D2248	Pass	72 hrs soaling in 3% detergent
<b>SALT RESISTANCE</b>	<b>ASTM B117</b>	<b>Includes the following:</b>	
Gloss Retention	ASTM D523	0.8% change	5000 hrs
Colour Retention	ASTM 2244	$\Delta E = 0.68$	5000 hrs
Chalk Resistance	ASTM 4214	Rating: 10	Top rating - no chalk (5000 hrs)
<b>HUMIDITY RESISTANCE</b>	<b>ASTM D714</b>	<b>Pass</b>	<b>2000 hrs</b>
	<b>ASTM B117</b>	<b>Includes the following:</b>	
Gloss Retention	ASTM D523	No Visible Change	5000 hrs
Colour Retention	ASTM 2244	$\Delta E = 0.52$	5000 hrs
Chalk Resistance	ASTM 4214	Rating: 10	Top rating - no chalk (5000 hrs)
<b>WEATHERING RESISTANCE</b>	<b>ASTM G53</b>	<b>Includes the following:</b>	
Gloss Retention	ASTM D523	6.2% Change	5000 hrs
Colour Retention	ASTM 2244	$\Delta E = 0.27$	5000 hrs
Chalk Resistance	ASTM 4214	Rating: 10	Top rating - no chalk (5000 hrs)
<b>CHEMICAL RESISTANCE</b>	<b>ASTM C207</b>	<b>Pass</b>	<b>Mortar, 24hrs</b>
	<b>ASTM C207</b>	<b>Pass</b>	<b>10% Hcl, 15 min</b>
		<b>Pass</b>	<b>70% HN03 Vapours, 30 min</b>
		<b>Includes the following:</b>	
Gloss Retention	ASTM D523	6.2% Change	16 hrs
Colour Retention	ASTM 2244	No Change	16 hrs
Chalk Resistance	ASTM 4214	Rating: 10	Top rating - no chalk (5000 hrs)