

TECHNICAL DATA

PROCORE liteA1®

PROCORE LiteA1® is Deemed-to-Satisfy (DtS) Non-Combustible when tested to AS 1530.1 and AS 1530.3 as per the requirements of the BCA/NCC

PROCORE LiteA1® is one of Australia's leading deemed to satisfy non-combustible aluminium panels.

Developed and manufactured by Probond Aluminium Cladding Panels, PROCORE LiteA1® is similar to traditional aluminium composite panel, however the advanced technology of the core is constructed from a complete aluminium structure rather than from a combustible material, meaning that it contains ZERO polyethylene.

The benefits of PROCORE LiteA1® include its high mechanical properties and simple fabrication. The outstanding surface flatness is enhanced with a high quality FEVE coating system, which provides optimum resistance to weather and industrial pollutants and comes in a vast range of colours selected as key corporate branding solutions.

Not only does it look similar to traditional Aluminium Composite Panel, it is also similar to fabricate and install making it a popular choice by signmakers.

PROCORE LiteA1® requires minimal maintenance and comes with excellent long-term performance making this the first choice for signage where a non-combustible substrate is required.

ADVANTAGES OF PROCORE LITE A1

- Deemed non-combustible as required by the BCA
- Tested to AS1530.1 & AS1530.3
- Non-Combustible Aluminium Core Technology
- ZERO Polyethylene
- Visually similar to traditional composite panel
- Cost effective, large stock holdings and short lead times

1. TYPICAL COMPOSITION

Aluminium Skin

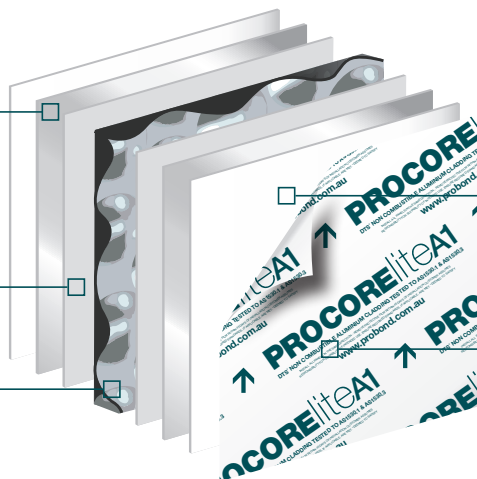
0.50mm 5005 Series Marine Grade aluminium offering superior performance, improved rigidity and excellent processing when CNC cutting and folding.

Adhesive

Henkel™ Hot Melt Adhesive for superior adhesion.

Core

Unique technology non-combustible core of profiled aluminium construction



Paint Finish

The ultimate in paint quality, PROCORE LiteA1® is coated with a PPG FEVE Coating for extended outdoor durability. The face has a Matt finish.

Protective Film

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



2. TECHNICAL DATA

CLASSIFICATION	PROCORE LITE A1
Panel Weight	3.87kg/m ²
Thickness	3mm
Thickness of Aluminium Face	0.5mm
Width	1220mmm/1500mm
ALUMINIUM SKIN	
Tensile Strength	160MPa
Alloy/Temper Of Auminium Layers	3003 H24
ADHESIVE	
Adhesive Type	Hot Melt Adhesive
Adhesive Thickness	0.05mm
SURFACE PROPERTIES (FEVE COATINGS)	
Paint Thickness (microns)	27-28 µm
Pencil Hardness	2H
Toughness of Coating	≤ 2T
Temperature Resistance	- 50°C - 80°C
Impact Strength (kg/CM ²)	50kg/cm ² . No crack
Boiling Water Resistance	Boiling for 2 hours without change
Acid Resistance	Immerse surface with 2%HCL(v/v) for 24H without change
Alkali Resistance	Immerse surface with 2%NaOH(m/m) for 24H without change
Oil Resistance	Immerse surface with 20# engine oil for 24H without change
Solvent Resistance	Clean 100 times with Methyl Ethyl Ketone (MEK) without change
Peel Strength	7.5 N/mm

3. FIRE RESISTANCE

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

PROCORE LiteA1® is one of the few Aluminium Composite Panels produced globally to be deemed non-combustible under the Building Code of Australia (BCA) and when tested to AS1530.1.

While PROCORE LiteA1® has the same visual appearance as traditional composite panel, it is the innovative core technology where the difference occurs. The core is constructed from a aluminium in a wave-form structure rather than combustible material such as polyethylene or fire rated mineral.

This makes PROCORE LiteA1® the ideal product for signage applications where fire resistance is required and where fire safety is essential, including shopping centres, hospitals and high elevation requirements.

As with any signage application, the use of PROCORE LiteA1® must be authorised by the appropriate regulatory body.

The Fire Resistance standards achieved by PROCORE LiteA1® are:

PROCORE LITE A1			
TEST STANDARD	RESULT		
AS1530.1	DEEMED NON-COMBUSTIBLE		
AS1530.3	Pass	Ignitability Index	0
	Pass	Heat Evolved	0
	Pass	Spread of Flame	0
	Pass	Smoke Developed	2

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