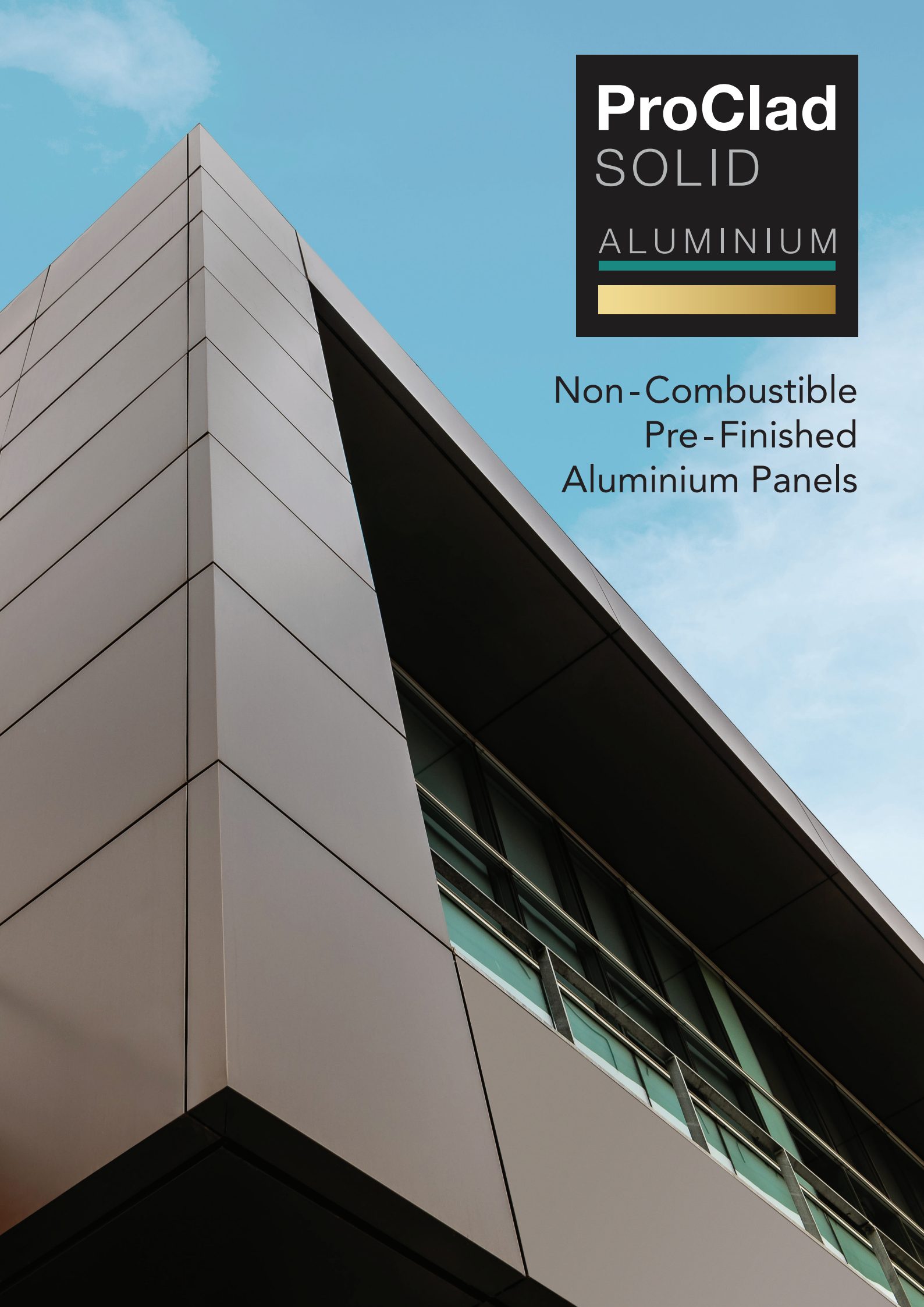


ProClad SOLID ALUMINIUM

Non-Combustible
Pre-Finished
Aluminium Panels

Non-Combustible Aluminium Panels

ProClad™ SOLID high quality aluminium panels are the ideal solution for any facade.

The non-combustible panels come in a vast array of colours to suit a range of applications from high-rise commercial buildings to residential development. ProClad™ SOLID is the perfect solution for any new build as well as recladding of existing projects.

Architects, designers, developers, builders and contractors can feel confident when specifying ProClad™ SOLID aluminium panels as they are 100% non-combustible, require low maintenance and have a high level of safety and durability.

Features & Benefits

- 100% Non-combustible to AS1530.1
- Custom sizes, colours and finishes
- Up to 25 years warranty
- High quality finish
- High quality marine grade aluminium
- Easy to fabricate
- Stocked in Australia
- Expert advice
- Competitively priced
- 100% Recyclable

Designed to Last

ProClad™ SOLID aluminium panels are non-combustible in accordance with AS1530.1 standards.

The high quality PVDF UV resistant paint finish makes ProClad™ SOLID panels the ideal solution for harsh Australian conditions.

Limitless Design Options

The wide range of finishes and sizes means that ProClad™ SOLID panels can be used to achieve even the most complex architectural designs.

Standard sizes and colours are stocked in Australia for added convenience.

ProClad™ SOLID also offers custom colours and sizes on request.

Maintenance Information

Regular cleaning with mild detergents is recommended. When cleaning the panels it is also recommended that the detergent is thoroughly rinsed off the facade to help maintain its original appearance.

Avoid using cleaning products with a high level of alkaline or acidity, as well as abrasive materials and paint dissolving solvents.

Facades that are located near a marine or industrial environment may need more frequent cleaning periods.

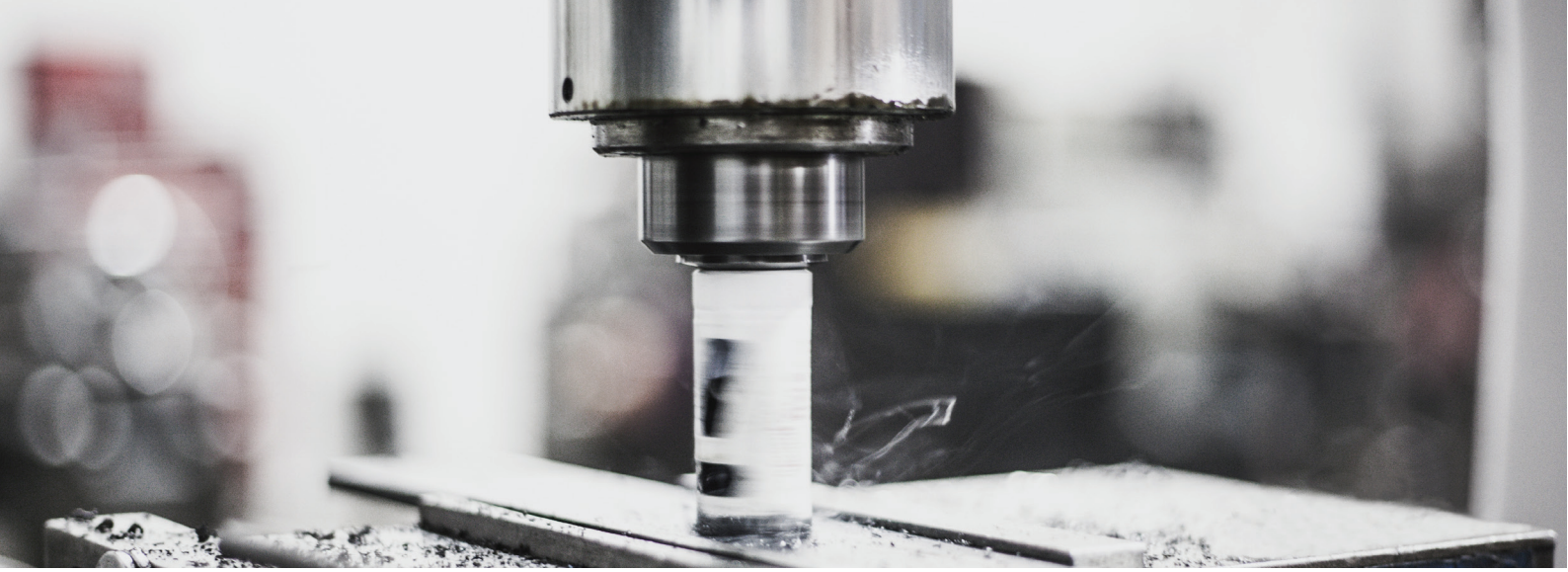
ProClad™ Technical Data Sheet

Properties	Values
Alloy	5052
Temper	H32
Standard Thickness	3mm
Painted Weight	8.31 kg/m²
Raw Density	2680 kg/m³
Indicative Minimum Radius	4.5mm
Tensile Strength	215–265 MPa
0.2% Proof Stress	>160 MPa
Elongation	7%
Linear Thermal Expansion	2.4mm/m at 100° temperature difference
Melting Range	655 °C
Modulus of Elasticity - Tension	69.3 GPa @20°C
Modulus of Elasticity - Torsion	25.9 GPa @20°C
Modulus of Elasticity - Compression	70.7 GPa @20°C
Thermal Conductivity	138 W/m.k @25°C
Electrical Resistivity	70.7 μΩ.m @20°C
Electrical Conductivity - Equal Volume	20 MS/m @20°C
Electrical Conductivity - Equal Weight	67 MS/m @20°C
Sound Absorption Factor	0.05 NCR
Sound Reflection	95%

Fire Performance

Test Standard	Result	
AS1530.1	Non-Combustible	
AS1530.3	**PASS**	
Ignitability Index	0	✓
Heat Evolved	0	✓
Spread of Flame	0	✓
Smoke Developed	1	✓

ProClad™ SOLID aluminium panels are non-combustible when tested to AS1530.1.



Fabrication

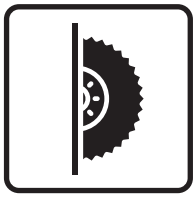
ProClad™ SOLID sheets can be fabricated into panels using various sawing, routing and drilling techniques. For best results it is recommended that:

- The right equipment is used according to the manufacturer's instruction manual
- Drill bits and blades selected are intended for use with aluminium

Circular Saw

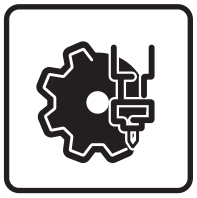
For best results, a track guided circular saw is recommended.

Hand folding is achievable without a requirement for bending equipment.



Vertical Panel Saw

Use for cutting and routing sheets. When creating a V groove for folding, the minimum thickness left in the bottom of the groove should be 0.7mm.



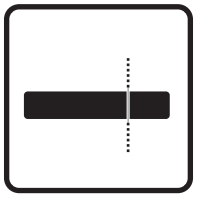
CNC Router

Used for straight and contour cutting along V Grooving for folding. When creating a V groove for folding, the minimum thickness left in the bottom should be 0.7mm.

Folding

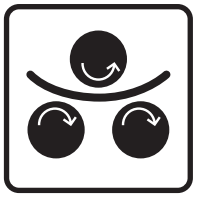
After the V groove has been formed, fold the return leg back in one movement.

A portable folding tool for small panels and a folding machine for larger panels is recommended.



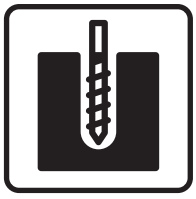
Shearing

ProClad™ SOLID sheets can be guillotined to the required size.



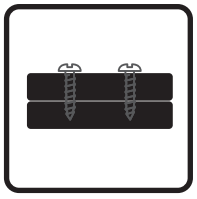
Roll Bending

To create curved surfaces, use a suitable bending machine. In order to minimise damaging the material use a protective film. Ensure rollers are clean and dent free.



Drilling

A high quality HSS centre point drill bit is suitable for drilling ProClad™ SOLID.

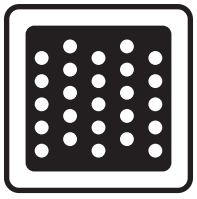


Fixing

Blind and solid rivets along with stainless steel screws can be used to secure ProClad™ SOLID sheets. Always consider the effects of thermal expansion and potential building movement.

Welding

TIG and MIG welding are common welding methods used on ProClad™ SOLID sheets. Consult with your local welding specialist for advice.



Perforating

ProClad™ SOLID sheets can be perforated by punching, drilling or milling.

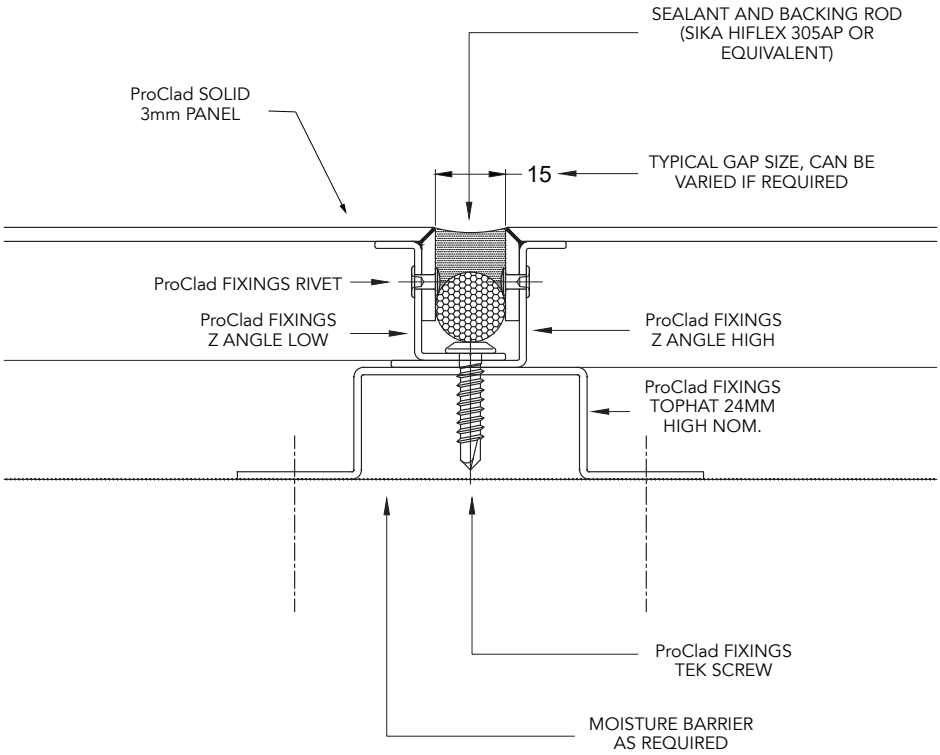
Product Availability

ProClad™ SOLID aluminium panels are available in following standard stock sizes:

- 2500 x 1250
- 2500 x 1500
- 3200 x 1250
- 3200 x 1500
- 4000 x 1250
- 4000 x 1500

*Custom sizes and finishes are also available upon request.

Fixing Details



For more information please refer to the ProClad™ SOLID Technical Information.

Application

ProClad™ SOLID is suitable for application on Type A and B constructions including hospitals and mixed-use developments. The 2019 BCA clause C1.9e (v) highlights the use of pre-finished metal sheeting wherever deemed non-combustible materials are required.

ProClad™ SOLID is 100% compliant having been deemed non-combustible to AS1530.1 and AS1530.3.

Warranty

ProClad™ SOLID is incredibly durable and includes a 20 year warranty, subject to standard terms and conditions.

Colours

ProClad™ SOLID use global leaders PPG coil coatings, which include some of the industry's best-known brands.

For nearly 50 years, DURANAR® coatings made with 70% fluoropolymer resin, have provided exceptional colour fastness, gloss retention and durability on buildings, including some of the world's most recognised landmarks.

As a global leader in coil coating technologies, PPG offers products in multiple resin formulations to meet the colour, cost and performance demands of architects, building owners and building product manufacturers. All PPG coil coatings are tested on chrome-pre-treated steel and aluminium using ASTM standards, so you can be confident that the coating you choose will perform to your expectations every time.

Solid

Metallic

Colour Disclaimer: Colour representations in this brochure are for **illustrative purposes only**. You should request actual samples before placing your order.

ALUMINIUM
FACADE
SYSTEMS
POWERED BY ALSPEC

3 Alspec Place, Eastern Creek NSW 2766
PO Box 262, Horsley Park NSW 2175
Phone: 02 9834 9500 | Sales: 1300 ALSPEC
Fax: 02 9834 9532 | ABN: 63 001 252 259
aluminiumfacadesystems.com.au