

# INTRODUCTION

## ABOUT ALYCLAD

Alyclad is a 3mm non-combustible solid aluminium cassette cladding system, deemed non-combustible cladding solutions; perfectly suitable for constructions where non-combustible products are required.

Alyclad is a high impact resistant, solid panel which can be fabricated, curved and rolled. The pre-finished large format cladding panels feature a PVDF coating system well proven for its superior quality, extensive colour range and design integrity.

## KEY FEATURES

Alyclad's versatility is achieved due to the combination of high-quality considerations and industry leading components. It is an ideal product for application in type A and B developments where non-combustible building materials are critical.

Alyclad is one of the few large format cladding panels that are deemed non-combustible when tested to AS1530.1.



<b>PRODUCT DNA</b>	Pre-finished solid aluminium panel
<b>FINISH</b>	Alyclad uses only the highly recognised paints known for their high durability, providing the optimum resistance to weather and industrial pollution.
<b>FIXING SYSTEM</b>	A cassette style concealed fixing system which is the same to fabricate and install as traditional ACPs.
<b>APPLICATION</b>	Type A and B constructions where non-combustible materials are required such as mixed-use developments, residential construction, and large-scale government infrastructure projects like hospitals.



Test Standard	Result
AS1530.1	Non-combustible
TEST REPORT NUMBER: RTF200074	

- »» **NON-COMBUSTIBLE**
- »» **15 YEAR WARRANTY**
- »» **HIGH QUALITY MARINE GRADE**
- »» **SUSTAINABLE**
- »» **100% RECYCLABLE**
- »» **OUTSTANDING DURABILITY**
- »» **ABRASIVE RESISTANT**
- »» **NO VISIBLE EXTERNAL JOINTS**
- »» **WEATHER PROOF**
- »» **AS1530.1 CERTIFIED**



# ALYCLAD

+ HIGH PERFORMANCE,  
NON-COMBUSTIBLE  
FACADE CLADDING



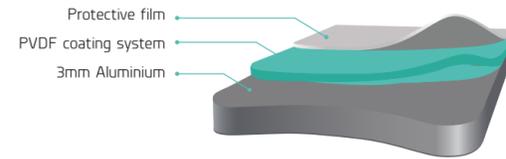
PRODUCT  
BROCHURE

# TECHNICAL INFO

## TYPICAL COMPOSITION

Alyclad is an 100% aluminium product. The 3mm thick panels weigh in at 8.1 kilograms per square metre, making the product ideal for large infrastructure developments such as schools and hospitals.

Alyclad is available in a variety of width and length combinations to suit almost any project and custom sizes are also available on request.



The material is rigid, resistant to blows, breakage and pressure and has high bending, buckling and breaking strengths.

## DIMENSIONS

Thickness: 3mm  
Weight: 8.1kg/m<sup>2</sup>

WIDTH	LENGTH	THICKNESS
1200/1500	2400	3mm
	3000	
	3600	

CUSTOM SIZES ARE AVAILABLE, PLEASE SPEAK TO THE WINTEC SYSTEMS TEAM.

\*NOTE: may not be available in all finishes.

## COATING TECHNOLOGY

Alyclad uses only the highly recognised PVDF paints known for their high durability. These premium paints provide the ultimate resistance to weather and industrial pollution on commercial, industrial, infrastructure and residential developments.

More than 50 years of Australian Exposure Testing is continuing to confirm the superior chemical and physical properties of fluoropolymer coatings.

Alyclad has virtually an unlimited colour range with the possibility of matching almost any panel colour, which provides a fully customisable option to achieve your dream design.

# ALYCLAD

## TECHNICAL DATA SHEET



PROPERTIES	UNITS	VALUES
Alloy		5052
Temper		H32
Standard thickness	mm	3
Raw density	kg/m <sup>3</sup>	2680
Indicative minimum radius	mm	4.5



Tensile strength	MPa	216
0.2% Proof stress	MPa	169
Elongation	%	13
Linear thermal expansion		2.38mm at 100° temperature difference
Hardness	Brinell	60



Melting range	°c	607-650
Modulus of elasticity - Tension	GPa	69.3 @ 20°c
Modulus of elasticity - Torsion	GPa	25.9 @ 20°c
Modulus of elasticity - Compression	GPa	70.7 @ 20°c



Electrical resistivity	micro-ohm.m	70.7 @ 20°c
Electrical conductivity - Equal volume	MS/m	20 @ 20°c
Electrical conductivity - Equal weight	MS/m	67 @ 20°c



Sound absorption factor	Noise Reduction Co-efficient	0.05
Sound reflection	%	95

# FABRICATION



**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.



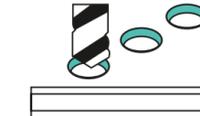
**FOLDING**  
After the V groove has been formed, fold the return leg back in one movement.  
A portable folding tool for small panels and a folding machine for larger panels is recommended.



**SHEARING**  
Alyclad 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 Alyclad.



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



**WELDING**  
TIG and MIG welding are common welding methods used on Alyclad sheets. Consult with your local welding specialist for advice.



**PERFORATING**  
Alyclad sheets can be perforated by punching, drilling or milling.

Alyclad 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

