



ALUMINIUM FACADE SYSTEMS

alspec[®]
EVERYTHING ALUMINIUM
& HARDWARE

ProClad
SOLID
ALUMINIUM

CHATSWOOD CONCOURSE NSW

Product: AFS ProClad SOLID
Fabricator: Aesthetic Building & Façades
Builder: Buildcorp
Architect: FJMT, Richard Francis-Jones

ProClad™ SOLID

ProClad™ SOLID provides unique balance of performance, usability and aesthetics. Made from aluminium, an excellent cladding material for residential and commercial applications. The material's exceptional strength opens up virtually limitless design possibilities for both commercial and residential buildings, enabling the creation of structures that would be impossible with wood, brick, or steel.

Testings & Certifications



Features & Benefits

- 100% Non-combustible to AS1530.1/ AS1530.3
- Custom sizes, colours and finishes
- Up to 25 years warranty
- High quality marine grade aluminium
- Easy to fabricate
- Expert advice
- Competitively priced
- 100% Recyclable
- Ideal for recladding of existing products

ProClad™ SOLID Technical Data

| Properties | Values |
|--|--|
| Alloy | 5052 |
| Temper | H32 |
| Standard Thickness | 3mm |
| Painted Weight | 8.31 kg/m ² |
| Raw Density | 2680 kg/m ³ |
| 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% |

ProClad™ SOLID has passed A4284 testing for building façade.

Fire Performance

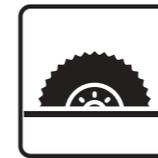
| Test Standard | Result |
|--------------------|--------|
| AS1530.1 | PASS |
| AS1530.3 | PASS |
| Ignitability Index | 0 ✓ |
| Heat Evolved | 0 ✓ |
| Spread of Flame | 0 ✓ |
| Smoke Developed | 0 ✓ |

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



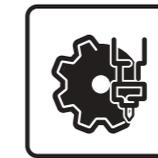
Circular Saw

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.



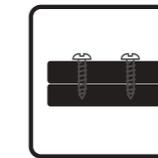
Roll Bending

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.



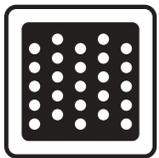
Fixing

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.



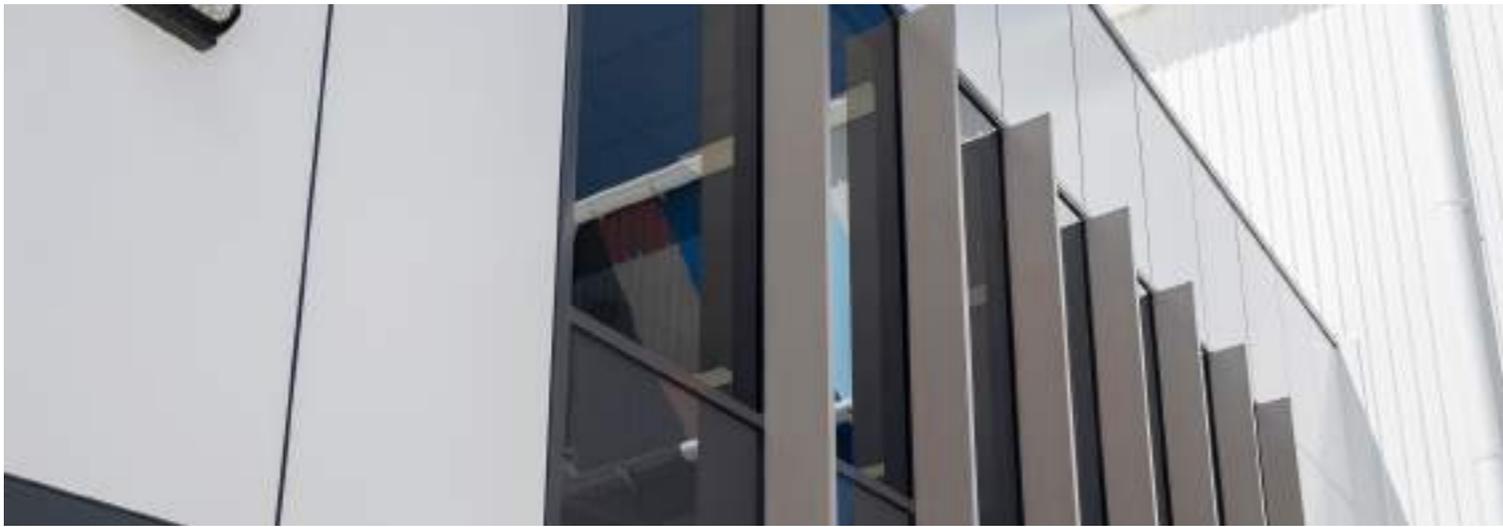
Welding

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:

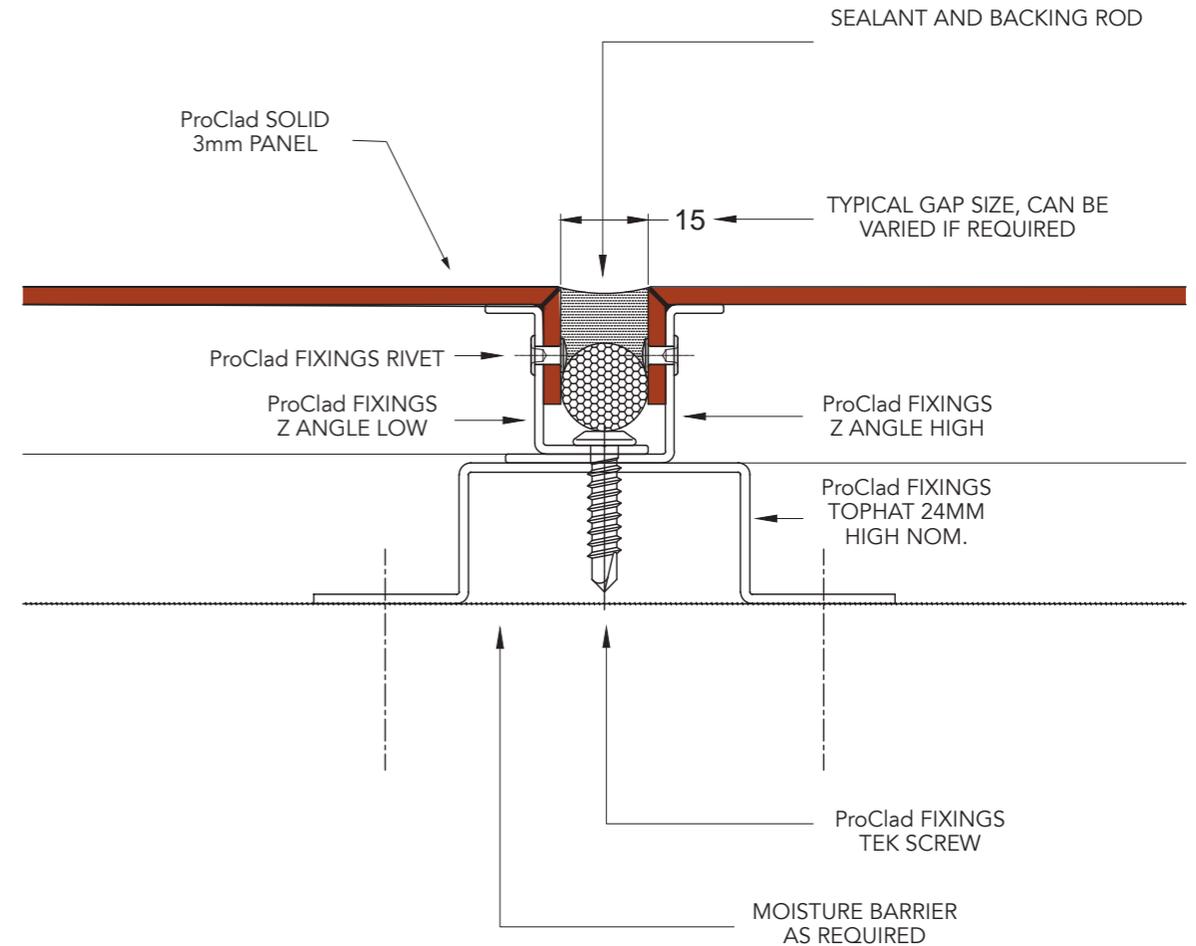
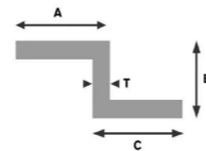
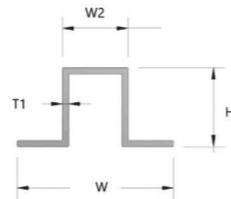
- 2500mm x 1250mm
- 3200mm x 1575mm
- 2500mm x 1575mm
- 4000mm x 1250mm
- 3200mm x 1250mm
- 4000mm x 1575mm

*Custom sizes and finishes are also available upon request. All sizes are in mm.

ProClad™ SOLID aluminium panels are also available in Mill finish in various sizes and material grades.

Accessories - Top Hats & Z Sections

Aluminium Façade systems offer a full range of Accessories such as top hats and male and female Z sections.



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

Application

ProClad™ SOLID is suitable for application on Type A and Type B constructions including hospitals and mixed-use developments. The 2022 BCA clause C2.D10 – (5)(d) highlights the use of pre-finished aluminium sheeting wherever deemed non-combustible materials are required.

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

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 façade 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.

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

Warranty

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

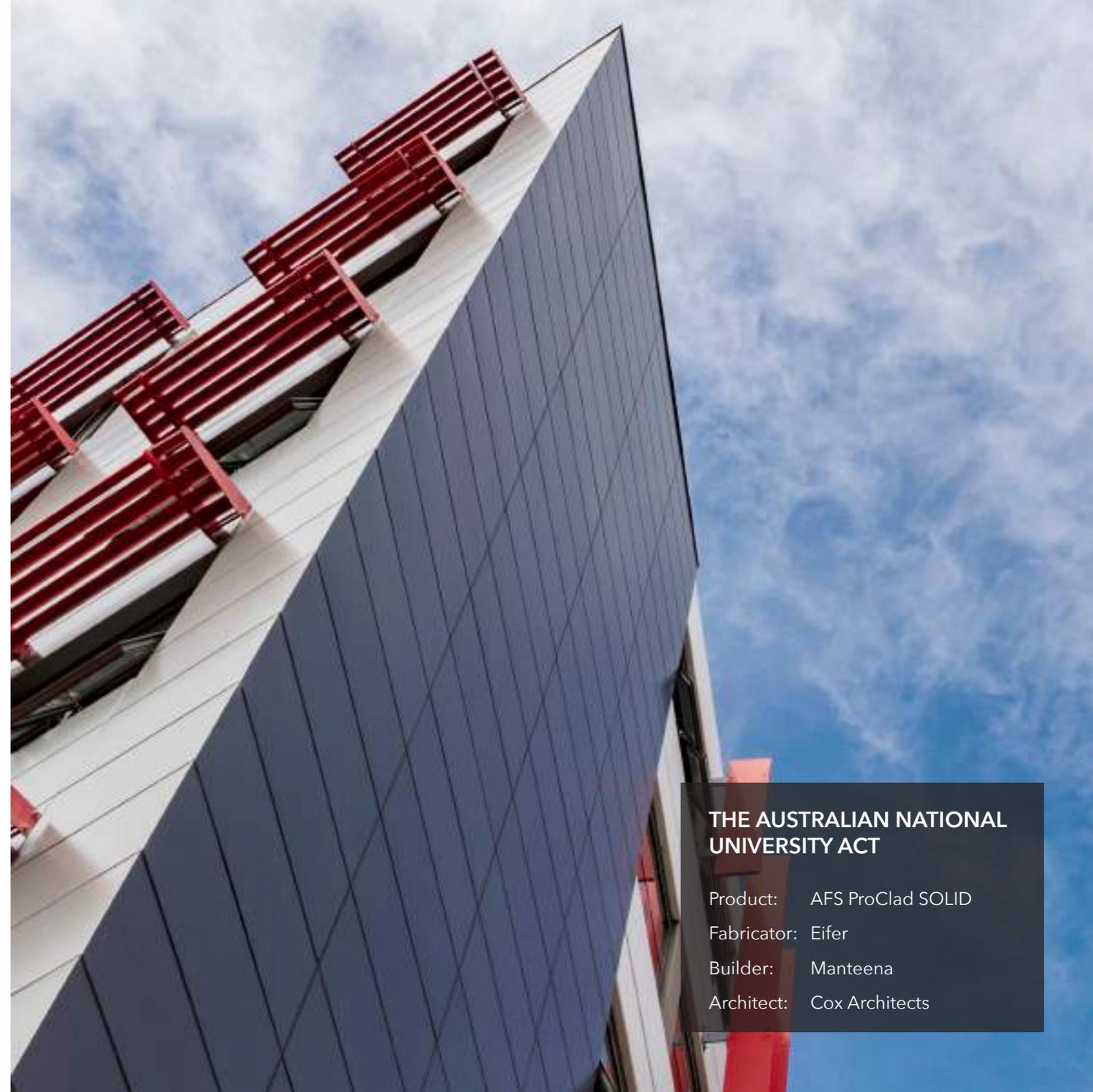
Colours

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.



THE AUSTRALIAN NATIONAL UNIVERSITY ACT

Product: AFS ProClad SOLID
Fabricator: Eifer
Builder: Manteena
Architect: Cox Architects

ProClad
HIVE
ALUMINIUM



ProClad™ HIVE

ProClad HIVE is a premium honeycomb cladding solution designed for modern architectural applications. Its lightweight structure delivers excellent thermal performance while offering flexibility with custom sizes, colours, and finishes. Easy to fabricate and competitively priced, ProClad HIVE combines durability with design freedom—sourced and supported by Alspec for quality assurance.

Features & Benefits

- Light weight
- Great thermal performance
- Custom sizes, colours and finishes
- Easy to fabricate
- Competitively priced
- Sourced by Alspec

ProClad™ HIVE Technical Data

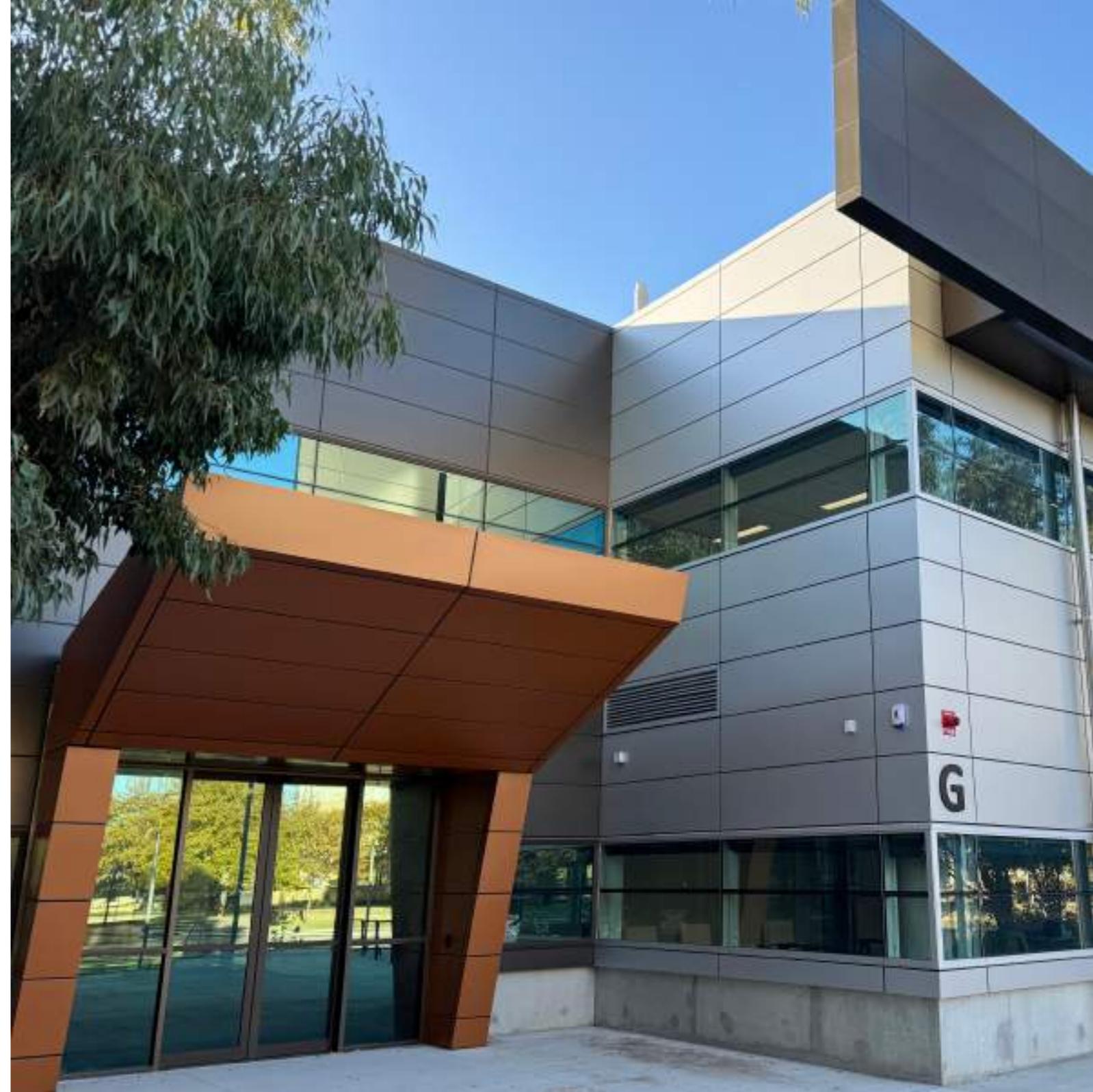
| Dimensions | Values |
|------------|----------------------|
| Thickness | 4mm |
| Weight | 4.6kg/m ² |

| Aluminium Skins | Values |
|-----------------|--|
| Alloy | 3003 |
| Face Skin | 0.7mm |
| Rare Skin | 0.5mm |
| Core Material | It is profiled 0.3mm aluminium core, expanded to 2.8mm |

Material Data

| Classification | Test Standard | Unit | Result |
|--|----------------------|----------------------|--|
| Temperature | | °C | -50 ± 80 |
| Core Shear Property | ASTM | MPa | Core shear Ultimate Strength:0.91 Facing Stress: 130.7 |
| Tensile Properties of Facing Aluminium Panel | ASTM E8/E8M15a | MPa | Tensile Strength: 172.9MPa |
| Tensile Strength | ASTM C297/ C297M15 | MPa | 0.81 |
| Facing Peel Torque | ASTM D1781-98 (2012) | mm N/mm ² | 270 |
| Thermal Resistance | ASTM C318-10 | m ² K/W | 0.005 |
| Acoustic Resistance | ISO 717-1 | dB | Rw (C, Ctr) = 22 (-1,-2) |

| Panel Sizes | Values |
|-------------|--------------|
| 1250 | 3200 4000 |
| 1575 | 3200 4000 |



ProClad
LINEAR

ALUMINIUM



Ticket Desk

**WALSH BAY ART PRECINCT
NSW**

Product: AFS ProClad LINEAR

Fabricator: O'Brien Building

Builder: RCC

Architect: Tonkin Architects

ProClad™ LINEAR

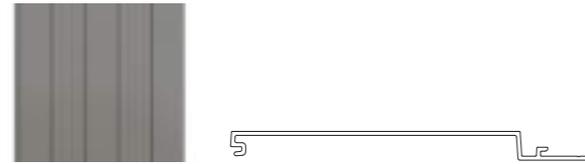
ProClad™ LINEAR provides confidence with the highest quality characteristics of each profile with the finest detail providing an incomparable reliability and longevity with a commitment to sustainability and our surrounding environment.

ProClad™ LINEAR passes AS4284 water-proofing test for building façades, AS1530.1 and AS1530.3 compliant tests.

With the extensive range of colours and finishes, ProClad™ LINEAR has limitless aesthetic and design options for use in applications of any scale and in any environment proving to be a preferred product due to ease of installation, maintenance and a market leading warranty.

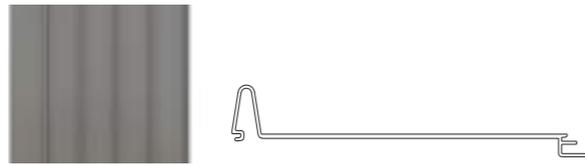
All ProClad™ LINEAR products can be custom designed to suit any project

EMPIRE



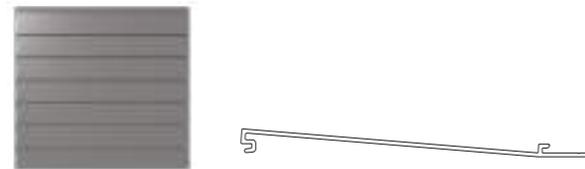
- Ultramodern wide boards with a recessed shadow in between each board
- A complete system with components for fixing and corner details
- Available in 160mm, 180mm, and 225mm widths at 6.5m lengths

URBAN



- Striking with a sleek pronounced pleat between each board
- A complete system with components for fixing and corner details
- Available in 240mm width and at 6.5m lengths

MANOR



- Classic weatherboard appearance that is neat and elegant
- A complete system with components for fixing and corner details
- Available in 197mm width at 6.5m lengths

Testings & Certifications



Features & Benefits

- Interlocking Façade System
- 100% Non-Combustible
- Intelligent Installation Design
- Pre-Finished System
- Proudly Australian Made
- Environmentally Friendly
- Minimal Fabrication
- Premium Aesthetics
- Industry Leading Warranty

ProClad™ LINEAR Technical Data

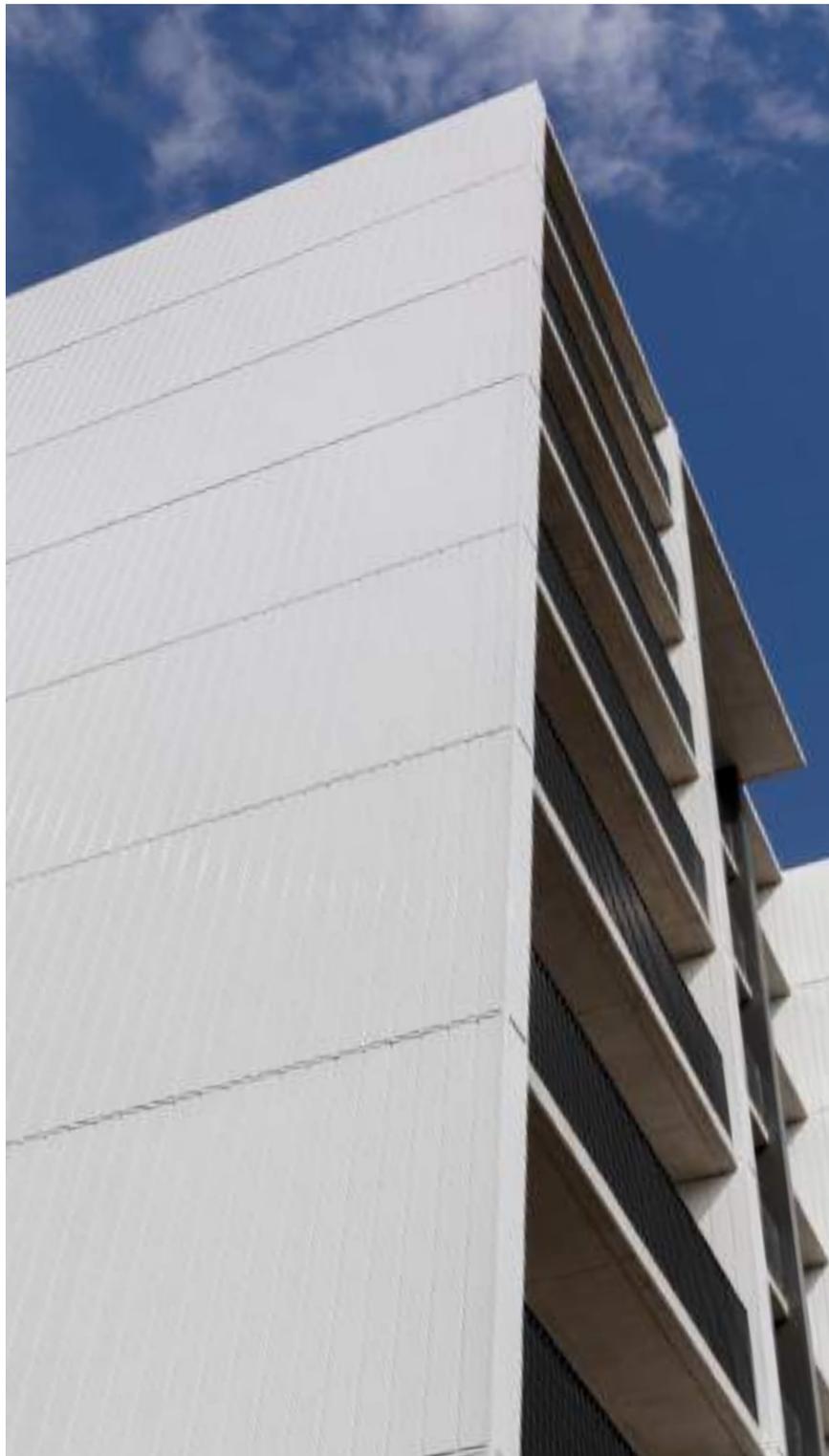
| Properties | Values |
|--|--|
| Alloy | 6063 |
| Temper | T5 |
| Standard Thickness | 2.5mm - 3.0mm |
| Painted Weight | 1.673 kg/m ² |
| Raw Density | 2700 kg/m ³ |
| Young's Modulus (E) | 68.3 GPa |
| Tensile Strength (25°) | 220 MPa |
| Yield Strength (25°) | 180 MPa |
| Shear Strength | 117 MPa |
| Fatigue Strength | 69 MPa |
| Elastic Modulus | 69 MPa |
| 0.2% Proof Stress | >170 MPa |
| Elongation | 12% |
| Linear Thermal Expansion | 2.4mm/m at 100° temperature difference |
| Melting Range | 640-660°C |
| Electrical Conductivity - Equal Volume | 32 MS/m |
| Electrical Conductivity - Equal Weight | 105 MS/m |
| Thermal Conductivity | 201-218 W/m.K |
| Sound Absorption Factor | 0.05 NCR |
| Sound Reflection | 95% |

ProClad™ LINEAR has passed A4284 testing for building façades.

Fire Performance

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

ProClad™ LINEAR is Bal 19 compliance achievable in accordance with fixing guidelines.



Span Table Guide

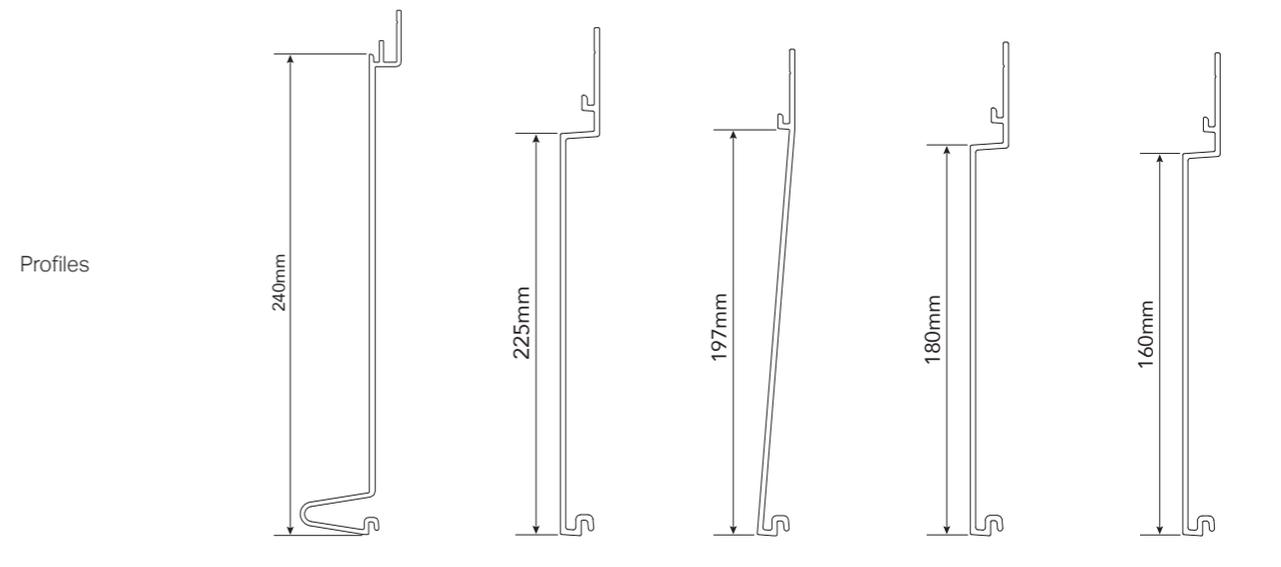
The following chart contains wind pressure tables that may be used as a guide to the suitability of AFS (Aluminium Façade Systems) Proclad Linear sections for various wind loads and fixing centres.

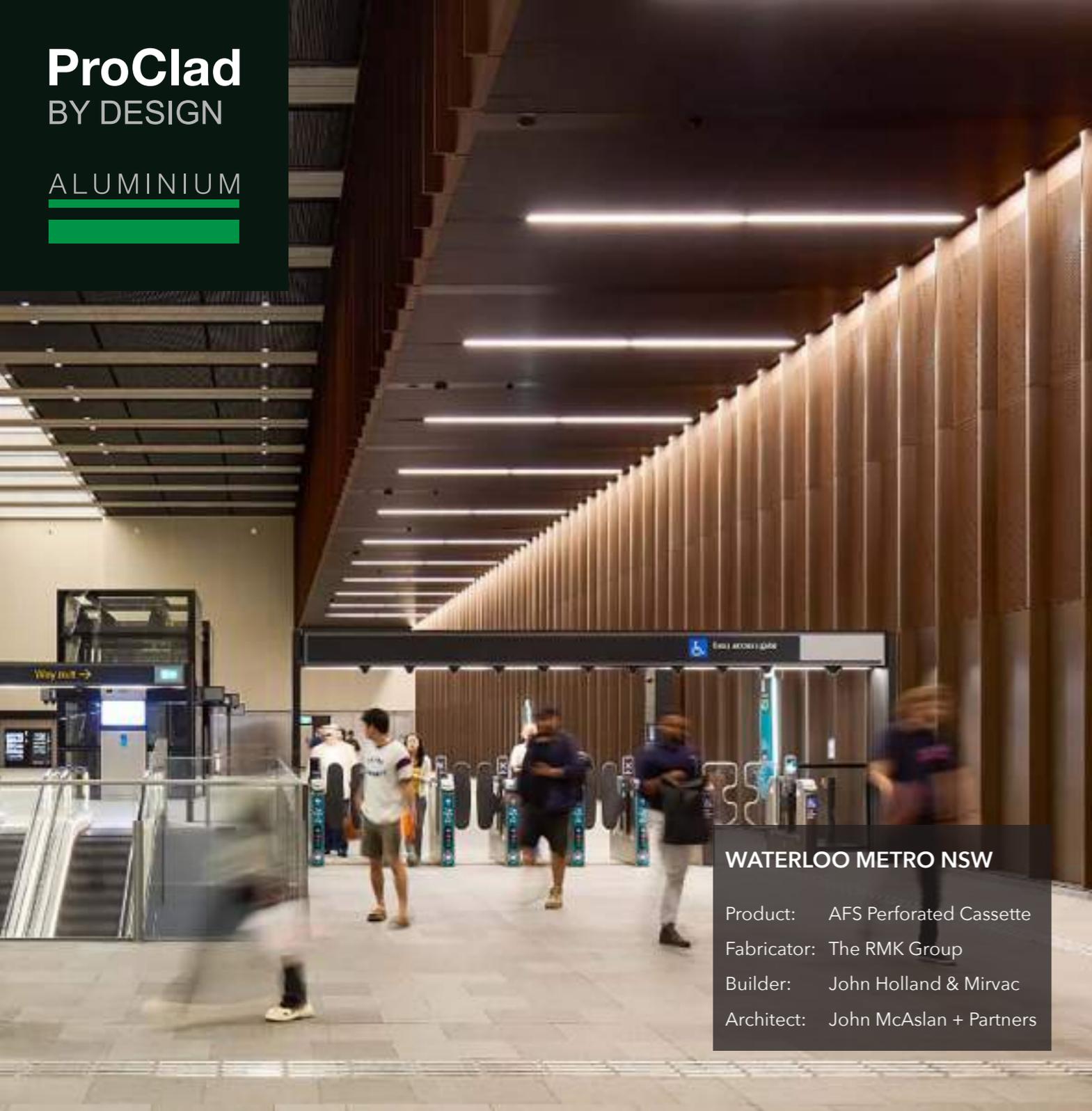
In most situations the design wind pressure for a particular building should be available from the building designer or engineer.

Façade should be checked for suitability following the below steps.

- Step 1** – AFS Linear Section required.
- Step 2** – Wind Load (SLS/ULS)
- Step 3** – Select fixing centres based on span/windload pass. All to be checked and signed off by Independent Engineer.

| Product Name | URBAN V | | EMPIRE V | | MANOR H | | EMPIRE V | | EMPIRE H | |
|--------------------|-----------------------|---------|-----------------------|---------|----------------------|---------|------------------------|---------|------------------------|---------|
| Length | 240mm | | 225mm | | 197mm | | 180mm | | 160mm | |
| ixx | 87,252mm ⁴ | | 19,582mm ⁴ | | 2,711mm ⁴ | | 16,582 mm ⁴ | | 14,289 mm ⁴ | |
| A mm ² | 959 | | 867 | | 598 | | 620 | | 500 | |
| Alloy 6063-T5 | ULS (Pa) | SLS(Pa) | ULS (Pa) | SLS(Pa) | ULS (Pa) | SLS(Pa) | ULS (Pa) | SLS(Pa) | ULS (Pa) | SLS(Pa) |
| Span/150 | | | | | | | | | | |
| Fixing each 1200mm | 1500 | 975 | 1100 | 715 | NA | NA | NA | NA | NA | NA |
| Fixing each 900mm | 2000 | 1300 | 2000 | 1300 | NA | NA | 1800 | 1170 | 2100 | 1365 |
| Fixing each 600mm | 3300 | 2145 | 3000 | 1950 | 1800 | 1170 | 2800 | 1820 | 3500 | 2275 |
| Fixing each 450mm | 4500 | 2925 | 4300 | 2795 | 2800 | 1820 | 4000 | 2600 | 4300 | 2795 |
| Fixing each 300mm | 6800 | 4420 | 6500 | 4225 | 4100 | 2665 | 5800 | 3770 | 6200 | 4030 |





WATERLOO METRO NSW

Product: AFS Perforated Cassette
Fabricator: The RMK Group
Builder: John Holland & Mirvac
Architect: John McAslan + Partners



ProClad by Design

Aluminium Façade Systems can work with you and your clients on bespoke design cladding façades.

Product Offering

- Perforated panel cassette systems
- Embossed cassette
- Fully unitized cassette panels



**385 MACARTHUR AVENUE
HAMILTON QLD**

Product: AFS ProClad LINEAR
Fabricator: Plumb Glazing
Builder: Graystone
Architect: Blight Rayner Architecture

Aluminium Façade Systems

Aluminium Façade Systems is an Australian supplier of high quality and fully compliant non-combustible aluminium façade solutions for residential and commercial applications.

We are backed and serviced nationally by ALSPEC, Australia's market-leading aluminium system specialists with 50 years' experience.



This brochure reflects information current as of January 2026.
For the latest updates and product details, please visit our website