

AODELI[®]

ALUMINIUM FACADE
PANEL CATALOGUE

WWW.AODELI.COM.AU



SOLUTION PROVIDERS

Aodeli Australia is focused on the supply of a wide range of high quality aluminium panels to the building industry Australia wide.

Aodeli offers a range of innovative panels for cladding type installations that meet and exceed building code standards as well as a vast range of colour and finish options guaranteed to retain the colour for decades.

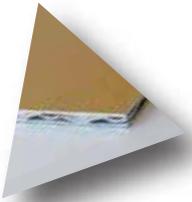
We have the ultimate "Fire Safe" solution with our non-combustible cladding range which meet the AS1530.1 and AS1530.3 standard. These panels are ideal for replacing current panels identified as a fire risk on current buildings and used exclusively or in combination with other panels on new buildings.

Aodeli is committed to both a high level of customer service, quality products and competitive prices.

Aodeli is a direct supplier of Aluminium Architectural Solutions including NCP Non-Combustible cladding, SAP Solid Aluminium, HCP Honeycomb, and ACP-FR Aluminium Composite Panel. Our engineers design a finished product to meet your most creative design solution, including customised colours and finishes.

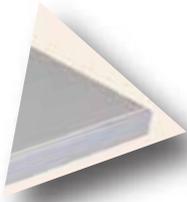
**Fully
Compliant to
AS1530.1 and
AS1530.3**

AODELI'S PRODUCT RANGE



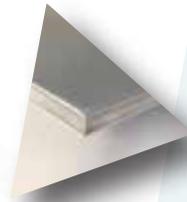
AODELI NCP

ALUMINIUM PANELS WITH ALUMINIUM CORRUGATED CORE 04



AODELI SAP

SOLID ALUMINIUM PANELS 08



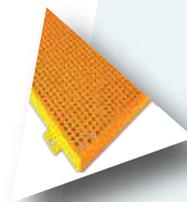
AODELI ACP-FR

FIRE RETARDANT PANEL 16



AODELI HCP

HONEYCOMB PANELS WITH CELLULAR CORE 12



AODELI APP & ADP

ALUMINIUM PERFORATED PANEL
ALUMINIUM DECORATIVE PANEL 16

**NCP NON-COMBUSTIBLE
PANEL**

AS1530.1 AS1530.3

MUSEUM

FIRE RESISTANT

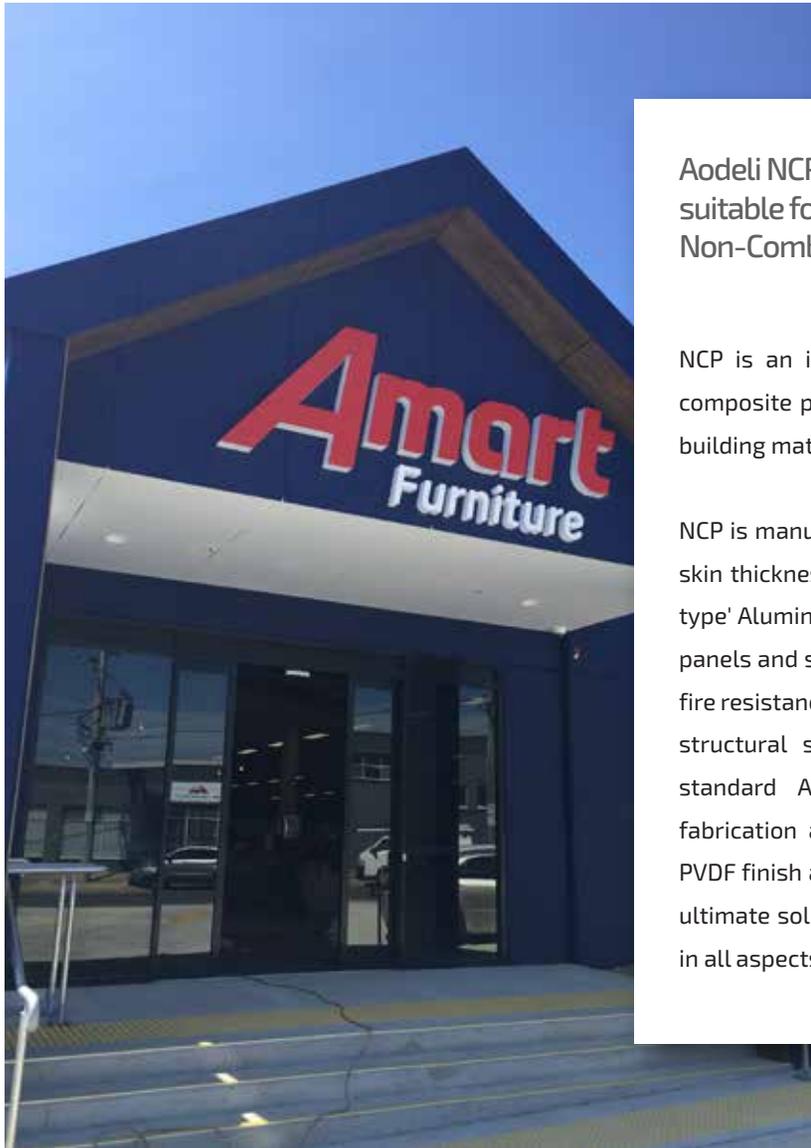
LIGHT IN WEIGHT

EASY TO INSTALL

CUT TO ANY SHAPE

AODELI - PRODUCT SPECIFICATIONS

for NCP- Non Combustible Panel

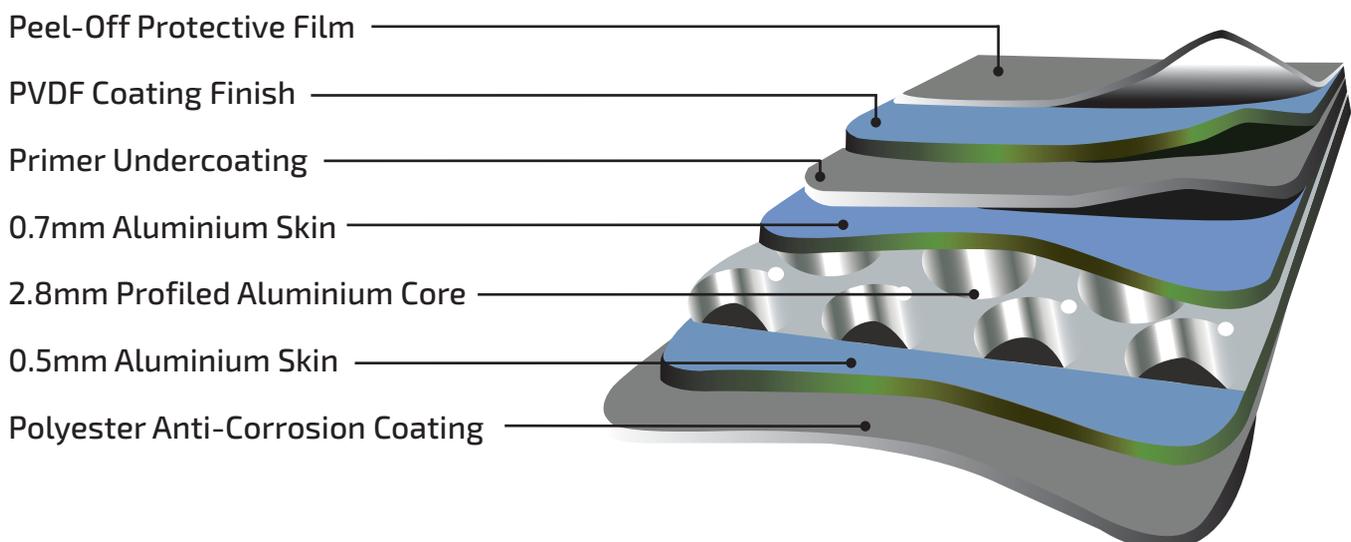


Aodeli NCP is a fully Non-Combustible Panel and suitable for external wall and internal structures where Non-Combustibility and fire resistance is needed.

NCP is an ideal replacement and alternative to non-compliant composite panels which has been certified as a non-combustible building material under the AS 1530.1

NCP is manufactured from high grade Aluminium throughout with skin thickness of 0.7mm and 0.5mm, separated by an 'egg carton type' Aluminium core. Unlike other non-combustible and fire proof panels and sheets NCP does not use mineral core fillers to achieve fire resistance and is therefore lighter in weight with equal or better structural strength. It is available in the same thickness as standard Aluminium Composite Panels offering the same fabrication and install properties. Along with its highly durable PVDF finish and unlimited colour options it provides Architects the ultimate solution for design versatility and high-end performance in all aspects of Architectural design elements.

STANDARD COMPOSITION



NCP PANEL SPECIFICATION

Face Panel	Material: High Grade Alloy A3003 Thickness: 0.7mm	
Back Panel	Material: High Grade Alloy A3003 Thickness: 0.5mm	
Core	Thickness: 2.8mm	
Sealant	High Polymer Adhesive Film	
Surface Coating	PVDF 70% KYNAR 3 Coat System	
Panel Specs	Length: 2500mm & 3200mm Width: 1250mm, 1550mm & 1575mm Thickness: 4.00mm	
Weight	Approx. 4.5/m ²	
Colour	Solid, Metallic, Wood or Marble design. Spectra, Anodized or Special Effect. Matched colour according to RAL or Pantone. Customized colour to meet your design idea.	
Fire Standard	AS1530.1 / AS1530.3	

NCP PANEL FEATURES

Compliance	<p>Fire Classification AS1530.1 + AS1530.3</p> <p>NCP has excellent technology fully deemed-to-satisfy to NCC and can be used where a Non-Combustible material is required. Tested to AS1530.1 + AS1530.3 may be used as external wall cladding on all Type A, B, and C Construction.</p>
Light in Weight	4.6kg/sqm. The light weight corrugated core panel reduces the loading force on buildings, facades, ceilings and to any application applied.
Easy to Install	Easy to install for structural stability, good flatness and stiffness with selectively inserting cassette fixing, this adding to the clean finish.
PVDF Coating	The NCP core is sandwiched with high grade Aluminium sheeting, coated with PVDF technology which protects the panel against heat and Ultraviolet ray, cold wind and snow.
Design	NCP Panel can be cut to any shape, rolled to meet the small radius curve for columns, angled and designed with elegance of Architectural inspiration.

APPLICATION OF NCP PANELS



NCP Panels have good performance such as light weight, high strength, stiffness, structural stability, wind pressure strength, sound insulation, heat insulation, fire resistant, waterproof and shockproof features and decorative highlights.

Application – NCP strong easy installation it is an ideal material for ceilings, interior wall and external wall façade for building of Type A, B and C.



SAP SOLID ALUMINIUM PANEL

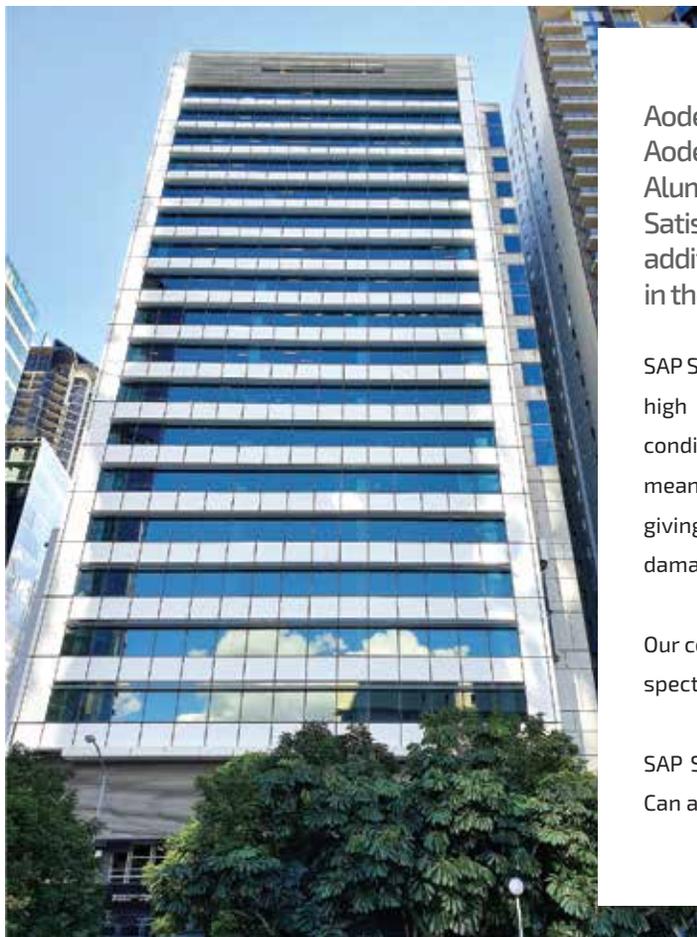
AS1530.1

FIRE RESISTANT
EASY TO INSTALL
CUT TO ANY SHAPE



AODELI - PRODUCT SPECIFICATIONS

for SAP Solid Aluminium



Aodeli SAP Solid Aluminium Cladding is manufactured by Aodeli with 100% high grade Aluminium. Our SAP Solid Aluminium Panel is compliant to the BCA Deemed to Satisfy non-combustibility AS1530.1. It is a perfect addition for replacement of combustible panels that are in the market place.

SAP Solid can be rolled or curved with impact resistant, lightweight, high durability, cost effective panel. Suitable for all weather conditions. It is prefinished in a coil coated PVDF coating. This means no powder-coating or other coating fabrication required giving you savings with cost, lead times, double handling and damage.

Our colour range is extensive. We can provide a woodgrain finish to spectra colour, and with colour matching being an option also.

SAP Solid is perfect for high-rise building, hospitals and schools. Can also be used for remedial works throughout all states.

SAP SOLID PANEL SPECIFICATION

Panel	<i>Material: High-Grade Alloy 5052 - Also available in other grades</i> Thickness: 3mm and 4mm
Surface Coating	PVDF 70% KYNAR 3 Coat System. Powder Coat is also optional.
Panel Specs	<i>Length: 2500mm & 3200mm</i> <i>Width: 1250mm, 1575mm</i>
Weight	8.1Kg/sq mt (3mm)
Colour	Solid, Metallic, Wood or Marble design. Spectra, Anodized or Special effect. Matched colour according to RAL or Pantone. Customized colour to meet your design idea.
Compliance	Tested to AS1530.1 Aodeli's products have been independently tested to meet Australian Standards & Compliance.

SAP SOLID PANEL FEATURES

Compliance	Fire Classification AS1530.1 Fully deemed-to-satisfied to NCC and can be used where a Non-Combustible material is required. Tested to AS1530.1 may be used as external wall cladding on all Type A, B, and C construction.
Light in Weight	Good rigidity, high intensity, non-inflammable, and good fire resistance
Easy to Install	Good formability, it can be formed to plane, arc, shaped – columns or tower, good stiffness with selectively inserting cassette fixing, this adding to the clean finish.
PVDF Coating	A super durable with excellent UV and weather resistance of the coated surface. Superior resistance to acid and alkaline. PVDF technology protects the panel against heat, ultraviolet rays, wind & snow. A superior coating system to meet Australia's harsh environment.
Design	SAP Solid Aluminium Panel can be cut to any shape, rolled for columns, angled and designed with elegance of Architectural inspiration.

APPLICATION OF SAP SOLID PANELS

SAP Solid panels have good performance such as high strength, stiffness, structural stability, wind pressure strength, sound insulation, heat insulation, fire resistant, waterproof and shockproof features and decorative highlights.

Application – SAP Solid panels are strong and are easy to instal. It is an ideal material for ceilings, interior wall and external wall façade for buildings of Type A, B and C.

CLADDING RECTIFICATION

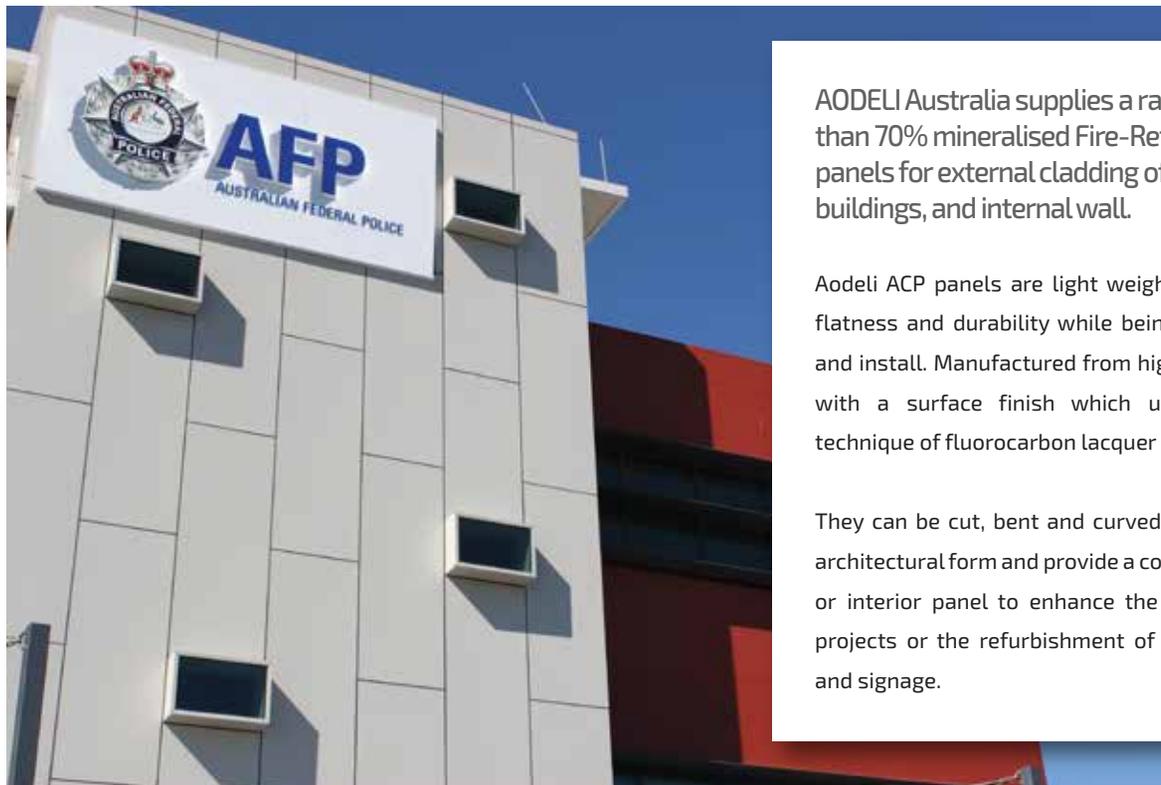
With the requirement to remove all PE from buildings in Australia. Aodeli 3mm SAP is the ideal choice for your cladding replacement.





AODELI - PRODUCT SPECIFICATIONS

for ACP-FR

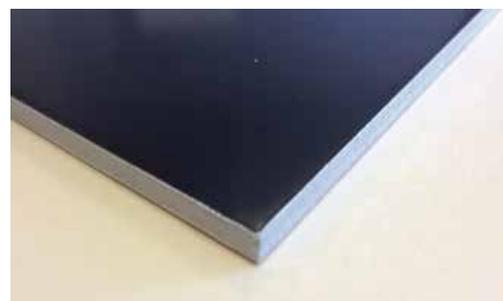
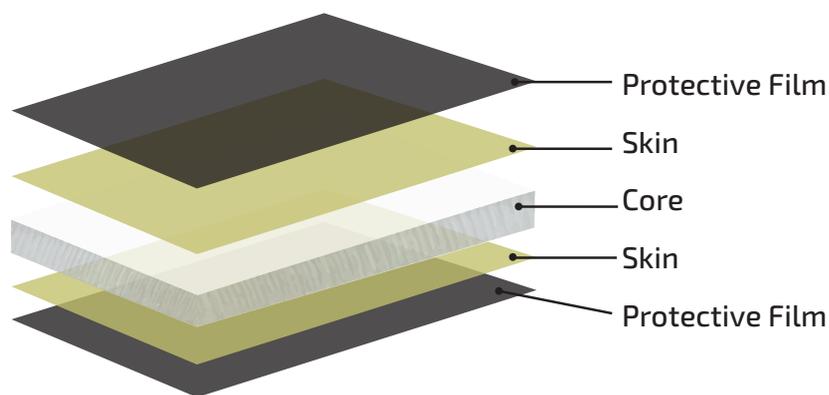


AODELI Australia supplies a range of more than 70% mineralised Fire-Retardant Core panels for external cladding of type C buildings, and internal wall.

Aodeli ACP panels are light weight offering superior flatness and durability while being easy to maintain and install. Manufactured from high grade aluminium with a surface finish which uses the advanced technique of fluorocarbon lacquer pre-coil coating.

They can be cut, bent and curved to suit almost any architectural form and provide a cost effective exterior or interior panel to enhance the aesthetics of new projects or the refurbishment of existing structures and signage.

STANDARD COMPOSITION



ACP-FR COMPOSITE PANEL TECHNICAL RESULT

Tensile Strength	5 kg/m ²
Yield Strength	4.7 kg/m ²
Elongation	12 %
Flexural Rigidity (20cm span)	15 x 10 ⁵ kg.mm ²
Flexural Elasticity	3980 kg/mm ²
Pencil Hardness	1 - 2H
Shear Resistance	2.3 kg/mm ²



ACP-FR PANEL FEATURES

Fire Resistant	<p>Fire Classification AS1530.3 and AS ISO 9705 with a group No.2 AODELI supplies a range of 70% mineralised Fire-Retardant Core panels (ACP-FR). Tested AS1530.3 may be used as external wall cladding on all Type C construction.</p>
Light in Weight	<p>7.6kg/sqm. The light weight mineral core panel is light weight offering superior flatness and durability while being easy to maintain and install.</p>
Easy to Install	<p>They can be cut, bent and curved to suit almost any form and provide a cost-effective exterior (type C construction) or interior panel to enhance the aesthetics of new projects and signage.</p>
Design	<p>ACP-FR panel can be cut to any shape, rolled to meet the small radius curve for columns, angled and designed with elegance of Architectural inspiration.</p>

ACP-FR PANEL SPECIFICATION

Face Panel	<p><i>Material: High-Grade Alloy 3003</i> Thickness: 0.5mm</p>	
Back Panel	<p><i>Material: High-Grade Alloy 3003</i> Thickness: 0.5mm</p>	
Core	<p><i>Material: : 70% mineralised fire-retardant core</i> Thickness: 3mm</p>	
Surface Coating	<p>PVDF: 70% Kynar - Coil coating</p>	
Panel Specs	<p>Length: 2500mm & 3200mm (other lengths ≤10000mm available upon request) Width: 1250mm, 1575mm (other widths ≤2100mm available upon request) Thickness: 4.00mm</p>	
Weight	<p>Approx. 7.6kg/m²</p>	
Colour	<p>Solid, Metallic, Wood or Marble design. Spectra, Anodized or Special effect. Matched colour according to RAL or Pantone. Customized colour to meet your design idea.</p>	
Fire Standard	<p>AS1530.3 – Class C Building AS ISO 9705 – Group 2</p>	



ACP-FR Aluminium Panels have good performance such as light weight, high strength, stiffness, structural stability, manufactured from high grade aluminium, with a surface finish which uses the advanced technique of fluorocarbon lacquer pre-coil coating. Aodeli ACP-FR Panels retain their colour & quality, offering a 15-year warranty.

Application – ACP-FR strong easy installation it is an ideal material for interior wall and external walls façade for building of Type C. It is widely used in caravans, car trailers, the list is endless.



HCP HONEYCOMB PANEL

AS 1530.1 and AS1530.3

STRENGTH + STIFFNESS

SUPERIOR FLATNESS

SOUND/HEAT INSULATION

FIRE RATED

ANTI-CORROSION

AODELI - PRODUCT SPECIFICATIONS

for HCP Honeycomb Panel

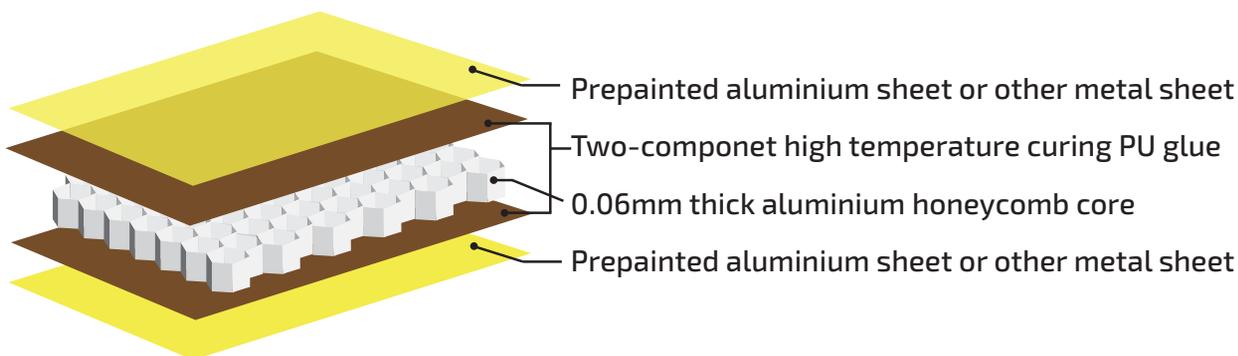


AODELI HCP is oriented from the Aviation industry. It's durable, large span and super flat. HCP also features in fabrication-friendly, multiple surface solutions and colour options. It is widely applied for Architectural area such as façade, roof, partition as well as transportation, voyage and equipment industry.

HCP Panel's interior is firmly joined to the external aluminium skins providing exceptional strength and the consistent flat, straight surfaces needed for quality finishes. It can be used to fabricate a wide range of shapes, including curved panels, folded panels and trapezoidal panels according to the requirements of the architectural design. These shapes are produced by one-step forming using dies.

HCP's thickness varies from 6mm to 50mm with 100% Aluminium construction and it is compliant to AS1530.1 BCA Deemed to Satisfy Non-Combustibility.

HCP HONEYCOMB PANEL STRUCTURE



HCP HONEYCOMB PANEL CORE

Al Alloy: A3005/Cell size b: from 6.5 to 9.5mm

H: total thickness

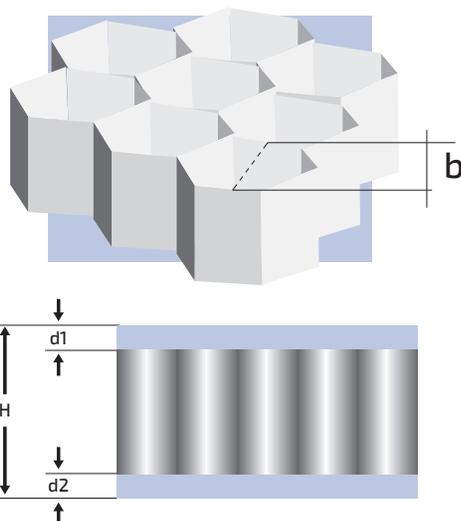
d1: thickness of AL front sheet

d2: thickness of AL back sheet

Thickness: 6 / 10 / 15 / 20 / 25 / 50mm

Width: 1250 / 1500 / 2100mm

Length: up to 10000mm



HCP HONEYCOMB PANEL SPECIFICATION

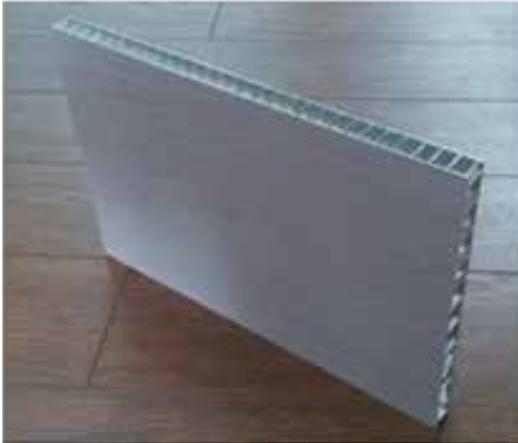
Face Panel	Material: High-Grade Alloy 3003, 5005 Thickness: 0.7mm or 1.0mm (other thicknesses available) Other Metal: Stainless Steel, Natural Copper and Titanium-Zinc
Back Panel	Material: High-Grade Alloy 3003,5005 Thickness: 0.7mm or 1.0mm (other thicknesses available) Other Metal: Stainless Steel, Natural Copper and Titanium-Zinc
Core	Material: Anti-Corrosion Honeycomb Core Thickness: 0.06mm Core Diameter: 12mm or 19mm
Sealant	YEBOND 2053
Surface Coating	Mill Finish or available in PVDF colour coatings upon request.
Panel Specs	Length: 2500mm & 3200mm (other lengths ≤10000mm available upon request) Width: 1250mm & 1500mm (other widths ≤2100mm available upon request) Thickness: 6mm to 50mm
Weight	Approx. 5.00~9.5kg/m ²
Colour	Solid, Metallic, Wood or Marble design. Spectra, Anodized or Special effect. Matched colour according to RAL or Pantone. Customized colour to meet your design idea.
Fire Standard	AS1530.1

HCP HONEYCOMB PANEL TEST RESULT

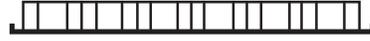
Items

Modulus of elasticity	69000 (N/mm ²)
0.2% Proof Stress	115 (N/mm ²)
Elongation	>3 %
Linear Thermal Expansion	2.3 mm/m @ 100°C temp. difference
Surface Strength	AA 5754A (ALMg3)
Thermomechanical Analyzer (TMA)	-30° ~ 30°C : 28.89x10 ⁶
Sound Resistance	Sound Transmission Class: Volume reverberation room 10mm – 19dB 25mm – 20dB Room Absorption – 100m ³

HCP HONEYCOMB PANEL EDGE



Open Edge



Foiled Edge embedded with Alu profile

HCP HONEYCOMB PANEL FEATURES

Fire Resistant	Excellent Production Technology which makes the panel's fire-resistant property for use where a Non-Combustible Panel is require by the NCC.
Light in Weight	5.0 – 9.5kg/sqm. The light weight honeycomb panel reduces the loading force on buildings and facades, ceilings, vehicles, boats, caravans and any application.
Easy to Install	Easy to install for structural stability, good flatness and stiffness with selectively inserting cassette fixing, this adding to the clean finish.
Sound Reducing	The Honeycomb core is sandwiched with high grade Aluminium sheeting locking the honeycomb cells and the air layer is an airtight space which lock out sound waves and heat temperatures making this product widely used in many industries.
Design	Honeycomb Panel can be cut to any shape, rolled, angled and designed with elegance of Architectural inspiration.

HCP HONEYCOMB PANEL APPLICATION

Honeycomb Panels have good performance, very light weight, high strength, stiffness, structural stability, wind pressure strength, sound insulation, heat insulation, fire resistant, waterproof and shockproof features and decorative highlights.

Application - Honeycomb's strong easy installation is an ideal material for ceilings, interior wall and external wall façade. It is widely used in boats and shipping, caravans, car trailers, the list is endless.



AODELI APP and ADP

Perforated and Designer Panel

FIRE RESISTANT

LIGHT IN WEIGHT

EASY TO INSTALL

CUT TO ANY SHAPE

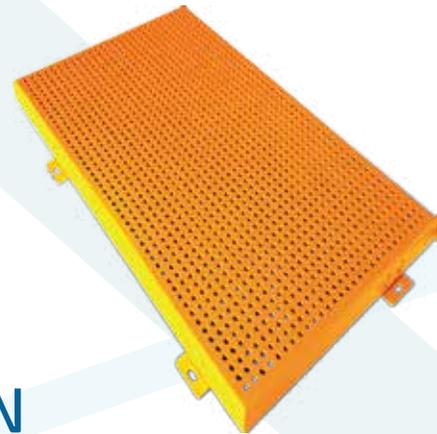
AODELI - PRODUCT SPECIFICATIONS

for APP & ADP

Aodeli APP Aluminium Perforated Panel and ADP Aluminium Decorative Panel is manufactured by Aodeli from premium grade aluminium. APP & ADP aluminium panel is compliant with Australian Standards and can be rolled, curved, and fabricated to suit your design requirements.

Lightweight durable with fantastic fabricating qualities. APP and ADP is ideal for the Australian climate with great corrosion resistant properties, durable and available in PVDF finish or Powder Coating.

PERFORATED PANEL



APP & ADP PANEL SPECIFICATION

Panel Material	Aluminium Grades available - 3003, 5005 and 5052
Surface Coating	PVDF 70 % Kynar or Powder Coating options also available
Panel Specs	Width 1250 & 1575
Colours	Solid, Metallics Timber effects & Anodised. Aodeli can colour match to wet paint colours, Colourbond, RAL, PMS or custom colours to meet your design requirements.



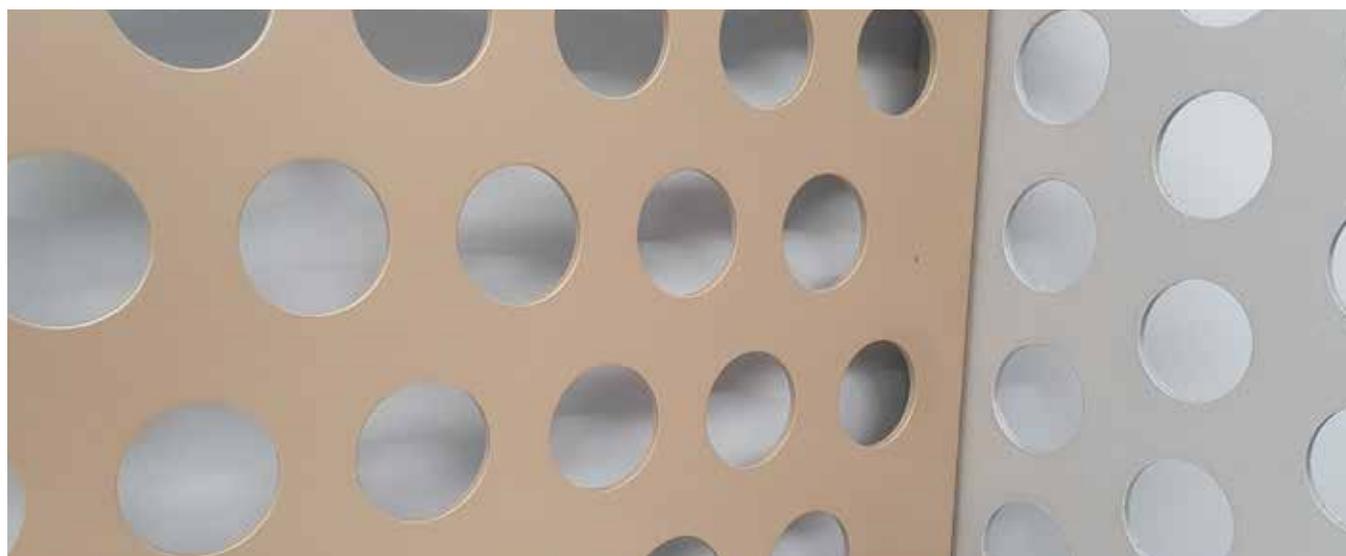
APP & ADP PANEL FEATURES

Compliance	Aodeli Perforated Panels are fully compliant to Australian Standards and the National Construction Code.
Lightweight	Aluminium is lightweight, high intensity, non-flammable, and good fire resistance.
Installation & Design	APP & ADP is easy to install and can be mechanically or cassette fixed. Good formability and stiffness, can be shaped, bent, folded, and fabricated to meet your design requirements.
PVDF Coating	Super Durable with excellent UV and weather resistance of the coated surface. Superior resistance to acid and alkaline. PVDF technology protects the panel against heat, Ultraviolet rays, wind, and snow. A superior coating system to meet Australia's harsh environment.
Maintenance	Low maintenance and easy to clean comes with a 15 Year warranty. See warranty guide for maintenance details.

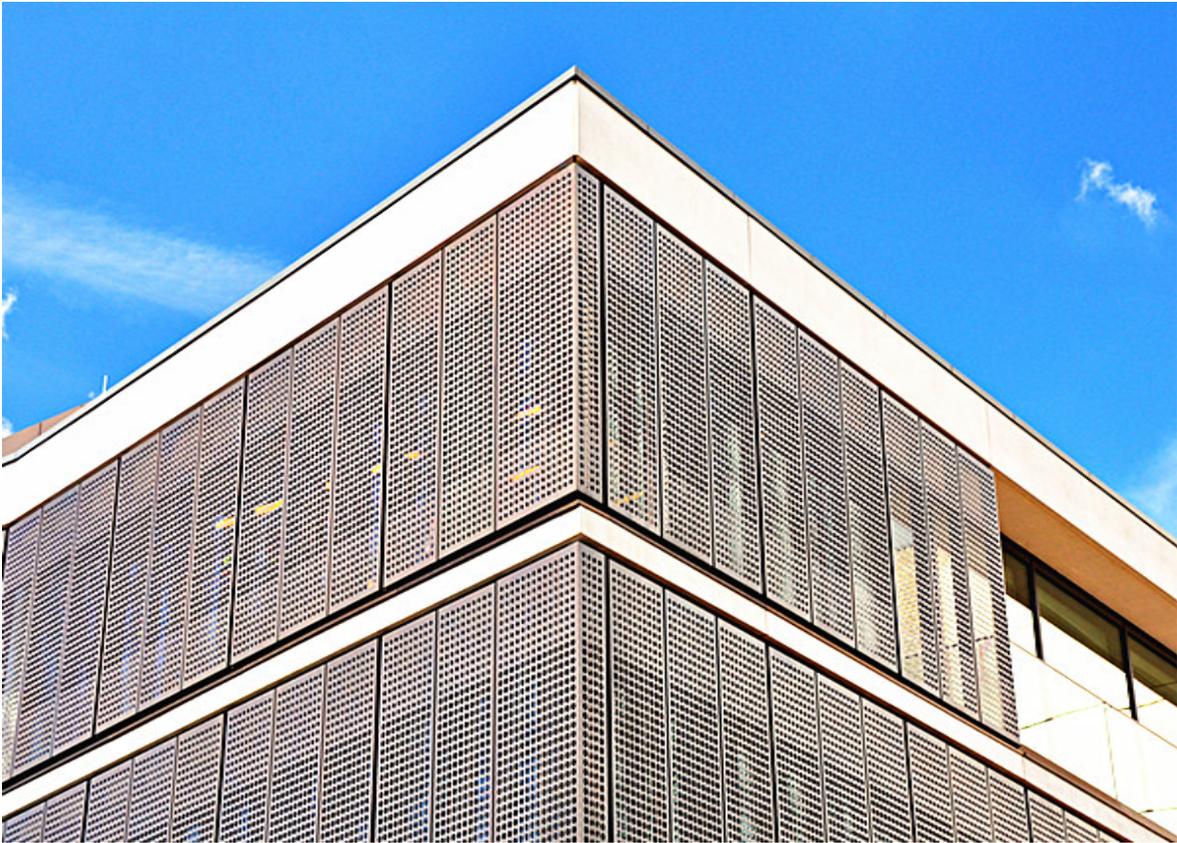
APPLICATIONS OF ALUMINIUM PERFORATED PANELS

APP & ADP Solid Aluminium Panels have many applications including façade, decorative panels, car park screens balustrade infills and ceiling tiles.

ADP is laser cut to and can be designed in many shapes and sizes including logos to give your project a special design edge.



ALUMINIUM DECORATIVE PANELS





RECLADDING

AODELI AUSTRALIA pride ourselves on specialising in Non-Combustible Building Cladding providing the solution for rectification of non-conforming panels that need to be replaced.

Aodeli NCP & SAP are ideal choices for your recladding projects. Fully complied for type A, B & C construction.

Aodeli support the network of architects, engineers, builders and installers to help plan and supply the product to rectify where possible. Navigating through the issue of re-cladding, our portfolio consists of high quality and aesthetically pleasing products that are both safe and industry compliant building façade.

AODELI are providing advice and expertise on rectification façade material that needs to be replaced on various projects around the country.

PRODUCT WARRANTY

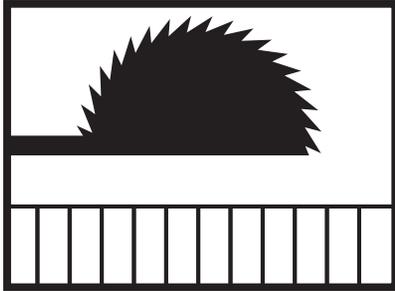
All AODELI products have an unmatched long-term durability supported by a 15 years warranty.



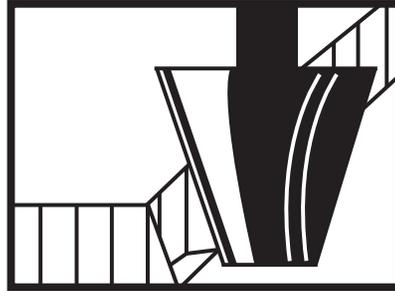
PERFORMANCE OF PVDF COATING

Coating Adhesion	Class 1
Impact Resistance	Struck with 50kg-m weight-distance drops without crack or loss of paint
Abrasion Resistance	5.10L/pm
Pollution Resistance	2.72%
Acid Resistance	Immerse surface in 5%HCl for 48hrs without change
Solvent Resistance	Cleaned 100 times with MEK by 1kg without change
Cleaning Resistance	10,000 times without change
Salt Spray Resistance	Class 1

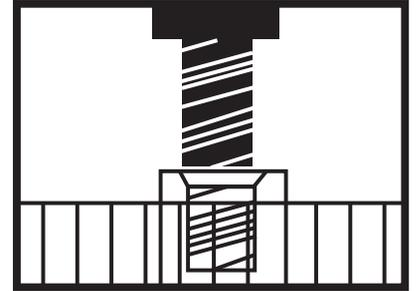
FABRICATION METHODS



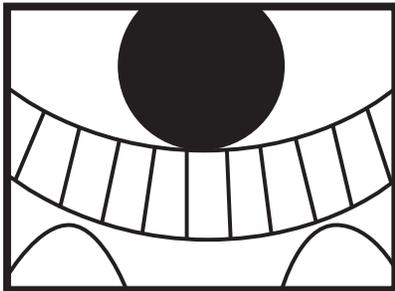
Cutting



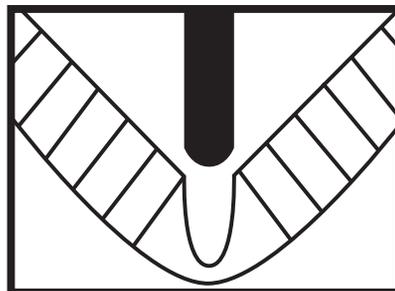
Notching



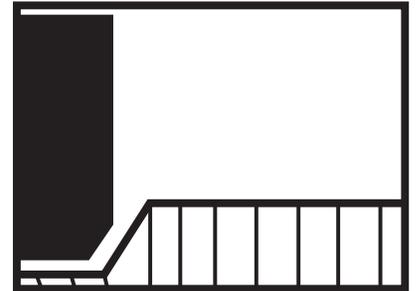
Joining & Fixing



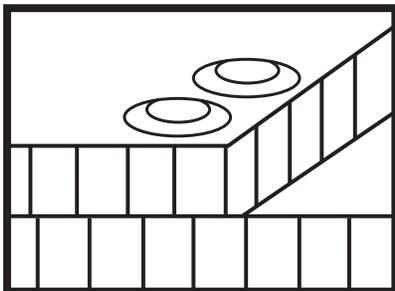
Rolling



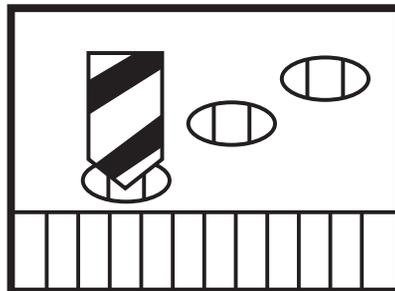
Bending



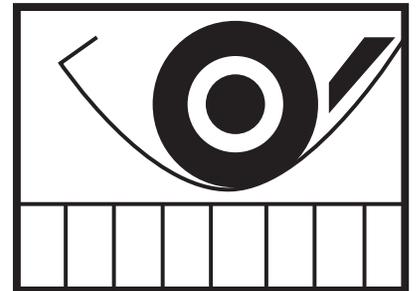
Edge Forming



Riveting

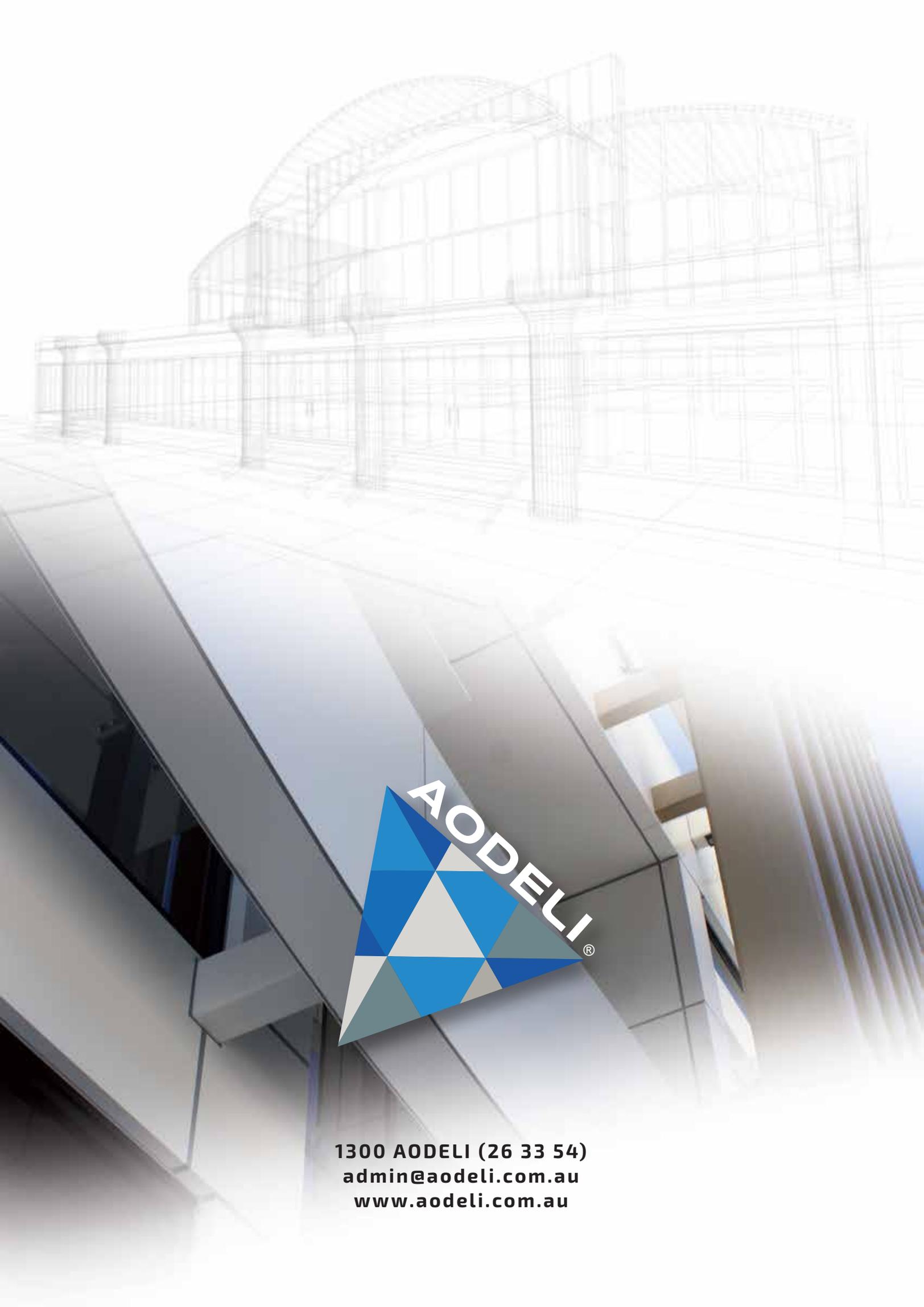


Drilling Holes



Surface Sticking





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