

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

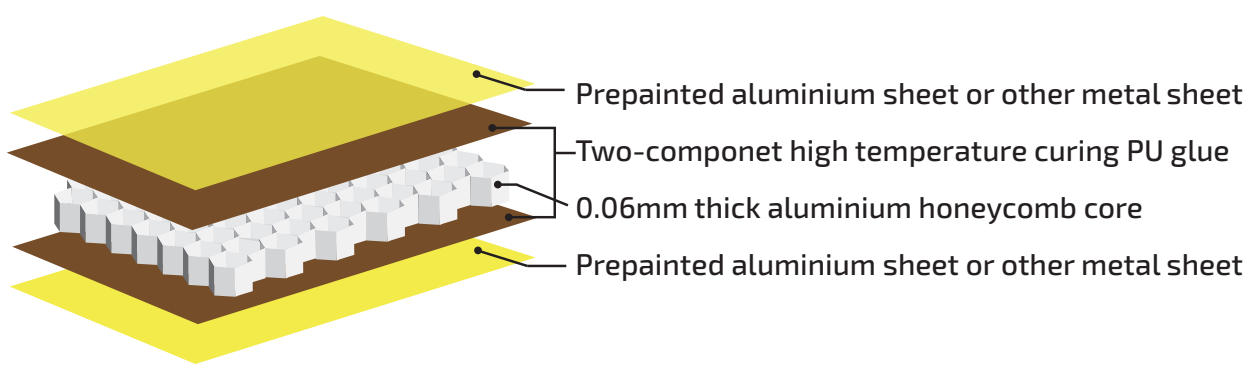


AODELI HCP is oriented from the Aviation industry. It's durable, large span and super flat. HCP also features in fabrication-friendly, multiple surface solutions and colour options. It is widely applied for Architectural area such as façade, roof, partition as well as transportation, voyage and equipment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

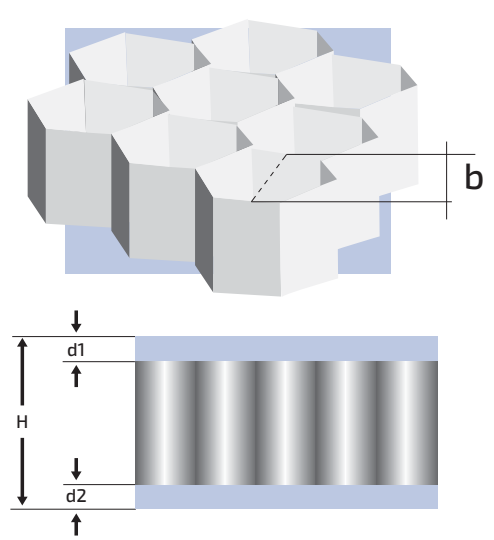
HCP's thickness varies from 6mm to 50mm with 100% Aluminium construction and it is compliant to AS1530.1 BCA Deemed to Satisfy Non-Combustibility.

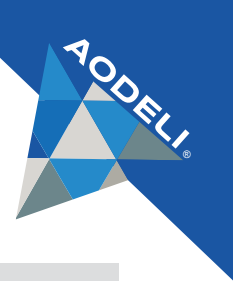
HCP HONEYCOMB PANEL STRUCTURE



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 required 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

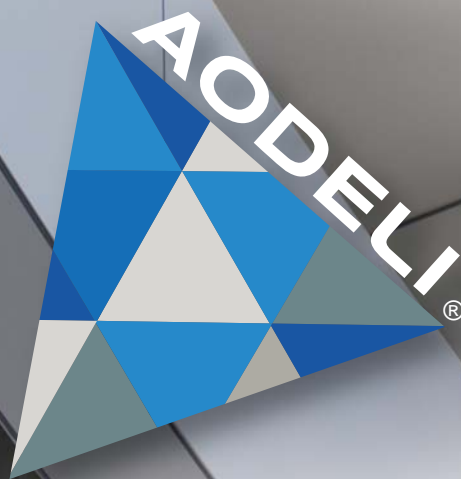
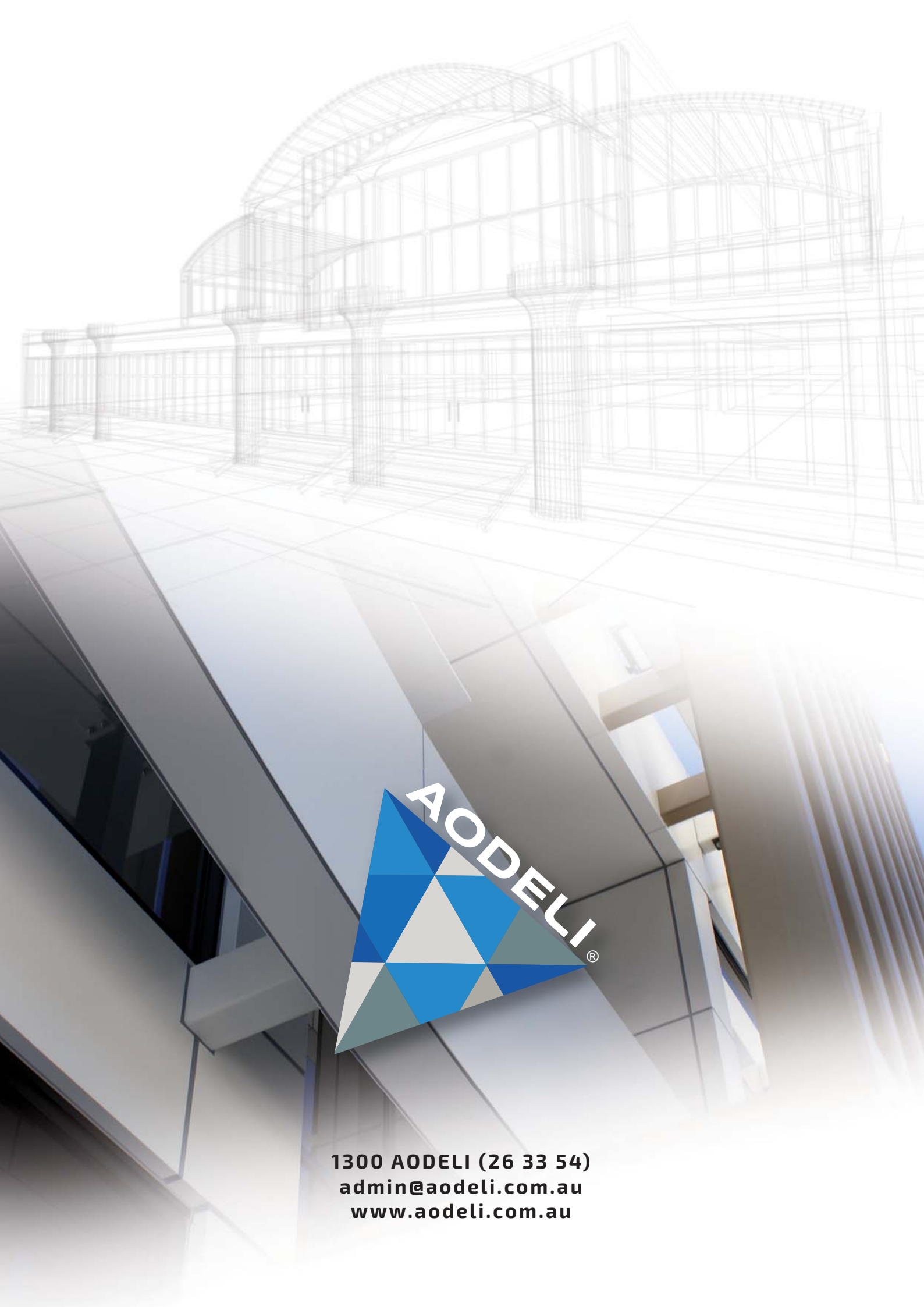
Honeycomb Panel can be cut to any shape, rolled, angled and designed with elegance of Architectural inspiration.

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.





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