



VENTURELITE® 2050

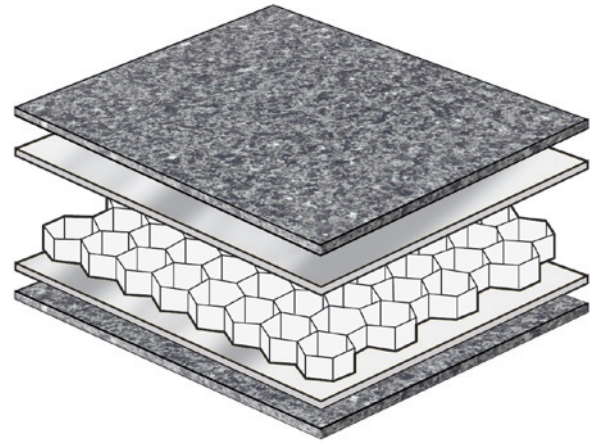
Decorative Faced, Aluminium Honeycomb Panel

DESCRIPTION

VENTURELITE® 2050 is an aluminium honeycomb panel with decorative laminate faces reinforced with aluminium sheet.

Strain-hardened hexagonal cell aluminium honeycomb has optimum mechanical properties and is able to carry shear loads at much lower weight than foam or other core types.

Minimal content of combustible materials means a low fire load, enabling VENTURELITE® 2050 to achieve flame spread test requirements.



ACCREDITATIONS

- Meets ISO 1182 requirements for Non- Combustibility of aluminium honeycomb core
- Meets ISO 5659-2 requirements for Smoke and Toxicity
- Aluminium honeycomb core meets the requirements of AMS-C-7438 for salt fog anti-corrosion performance

FEATURES

- Low weight
- High stiffness
- Easy to fabricate
- Wide range of decorative options: colours, patterns, wood grains, etc.
- Panels are produced with the same decorative laminate on both faces, or with a backing/lining laminate on the reverse face
- Decorative faces are reinforced with aluminium sheet. A broad range of reinforcement sheet thicknesses are available, including 0.3mm, 0.5mm, 0.8mm and 1.0mm. 0.5mm is the standard reinforcement thickness
- Aluminium reinforcement sheets can be selected with different thicknesses on different faces: for example, 0.8mm for front face, 0.3mm for back face
- Aluminium honeycomb cell size is 6.35mm
- Wide selection of AYRES® Profiles & Assembly Accessories are available



VENTURELITE® 2050

Decorative Faced, Aluminium Honeycomb Panel

PHYSICAL AND MECHANICAL PERFORMANCE

Thickness (mm)	Weight (kg/m ²)	Long Beam		Flatwise Tensile (MPa)	Flatwise Compression (MPa)
		Max Load (N)	Deflection at Max Load (mm)		
10	4.86	954	20	1.0	2.2
20	5.37	1875	9	1.0	2.2
30	5.97	2810	7	1.0	2.2

Typical room temperature properties for laminate faced panels, reinforced with 0.5mm aluminium sheet
Mechanical test procedures to AMS-STD-401

AVAILABILITY

Standard Dimensions
2400mm x 1200mm
Panel Thicknesss
Made to order, minimum thickness 6mm

SAFETY

As with cutting operations on most materials, avoid inhalation and eye contact with machining dust. Wear protective equipment such as hearing protection and safety glasses during any cutting operations. Use machine guards. Wear gloves to avoid cuts. Wash hands before eating, drinking or smoking and after finishing work.

APPLICATIONS

- Wall linings
- Furniture
- Internal modules
- Cabinetry
- Partitions
- Ceilings
- Tables
- Doors

FABRICATION

VENTURELITE® 2050 can be easily cut and drilled with standard tools for laminate-faced boards, such as circular saws, routers, etc. Negative rake blades are recommended for circular saws.

Components and complete interiors can be fabricated using AYRES® Profiles & Assembly Accessories, cutters and polyurethane paste adhesives.



Ayres Composite Panels Pty Ltd
 21-23 Clune Street
 Bayswater WA 6053, Australia
 T: +61 8 9279 3426
 enquiries@ayrescom.com

Ayres Composite Panels USA LLC
 5460 Business Parkway
 Theodore AL 36582, USA
 T: +1 251.653.0700
 usa@ayrescom.com

www.ayrescom.com

* Registered Trade Mark of Ayres Composite Panels

IMPORTANT All information is given in good faith but without acceptance of liability. Ayres Composite Panels reserves the right to alter specification without prior notice. It remains the responsibility of the customer to ensure the suitability of any product for the purposes intended. All sales are made subject to Ayres Composite Panels [standard terms and conditions of sale](#). Please direct all [enquiries here](#).