



AYRLITE® 2031

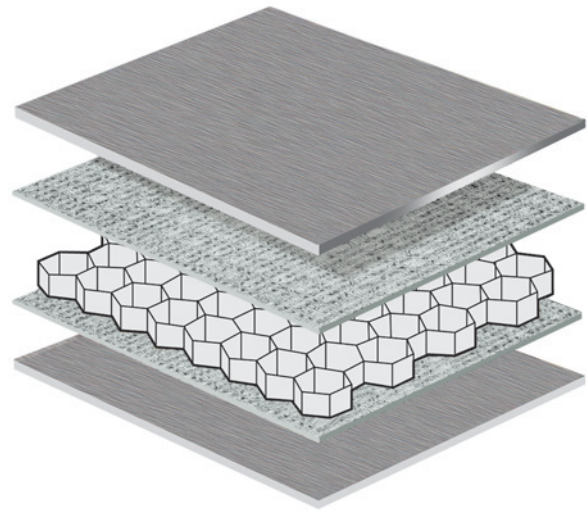
Stainless Steel Faced, Aluminium Honeycomb Panel

DESCRIPTION

AYRLITE® 2031 is an aluminium honeycomb panel with stainless steel sheet faces bonded to the core.

A glassfibre epoxy layer is used to protect against galvanic corrosion between the stainless steel faces and the aluminium honeycomb.

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



ACCREDITATIONS

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

APPLICATIONS

- Wall linings
- Internal modules eg. galleys, toilets, kiosks etc.
- Doors

FEATURES

- Low weight
- High stiffness
- Easy to fabricate
- Recyclable
- Stainless Steel 304 2B, 0.55mm sheets are bonded to both faces. Other thicknesses and finishes are available, eg. 304 No 4, 0.7mm sheets
- Aluminium honeycomb cell size is 6.35mm
- Wide selection of AYRES® Profiles & Assembly Accessories are available



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PHYSICAL AND MECHANICAL PERFORMANCE

Thickness (mm)	Weight (kg/m ²)	Long Beam		Climbing Drum Peel (N/76mm)	Flatwise Compression (MPa)
		Max Load (N)	Deflection at Max Load (mm)		
10	14.0	1054	25	375	2.6
20	15.6	2005	12	375	2.6
30	17.2	2776	9	375	2.6

Typical room temperature properties for 0.55mm 304 2B Stainless Steel Sheets to both faces

AVAILABILITY

Standard Dimensions
2438mm x 1219mm
Panel Thickness
Made to order, minimum thickness 6mm

FABRICATION

AYRLITE® 2031 requires specialised stainless steel fabrication tools and techniques. Glassfibre dust is an irritant, the use of a good dust extraction system is recommended.

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.



AYRES
Lightweight Panel Systems

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