



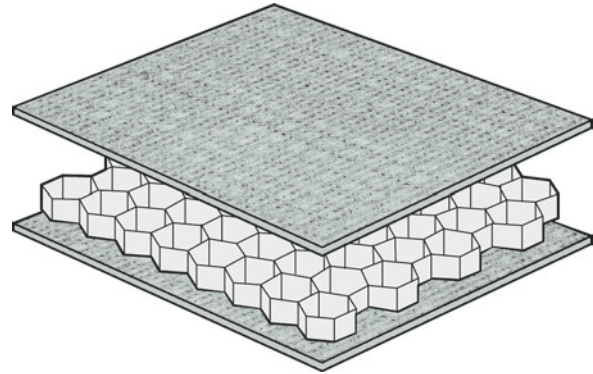
VENTURELITE® 2010

Glassfibre / Epoxy Faced, Aluminium Honeycomb Panel

DESCRIPTION

VENTURELITE® 2010 is an aluminium honeycomb panel faced with glassfibre reinforced epoxy resin.

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 meets the requirements of AMS-C-7438 salt fog anti-corrosion performance

FEATURES

- Low weight
- High stiffness
- Easy to fabricate
- A single ply facing has 290 gsm of woven glassfibre reinforcement. Any number of plies can be specified
- The same number of plies is used on both sides, to maintain flatness
- 6.35mm aluminium honeycomb cell size
- Wide selection of AYRES® Profiles & Assembly Accessories are available

APPLICATIONS

- Lightweight, high strength models and structures
- Panels for stone bonding and mosaics
- Automotive tooling
- Substrate panel for individual applications

FABRICATION

VENTURELITE® 2010 can be easily cut and drilled with standard tools such as circular saws, routers, etc. Glassfibre dust is an irritant, so the use of a good dust extraction system is recommended.

Facings must be kept clean and free of oil or grease before any assembly bonding is done. A peel ply can be incorporated to maintain cleanliness of the outer surfaces, if required.

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

Additionally, the cut-out-fold method can be used to produce curves or bends: by cutting a strip of skin material from one face, folding to close the gap created and permanently bonding the gap closed using adhesive.



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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 (Newtons)	Deflection at Max Load (mm)		
10	1.7	500	24	332	2.6
20	2.2	830	11	332	2.6
30	2.7	1080	8	332	2.6

Typical room temperature properties for 1 ply faced panels. Mechanical test procedures to AMS-STD-401

AVAILABILITY

Standard Dimensions
2400mm x 1200mm
Panel Thickness
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.



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Lightweight Panel Systems

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