



CELLITE 220 METAL & 620 FIBER PANELS

Honeycomb Sandwich Panels

The Cellite Honeycomb Sandwich Panel derives its unique characteristics from its construction, which consists of a Honeycomb Core material bonded between facing skins. By tailoring the separate elements to suit individual criteria, the resulting advantages can be used for numerous applications where high stiffness and low weight are particular requirements.

CELLITE 220 METAL PANELS

SIZE	2500mm x 1250mm
SKIN TYPE	Aluminium Alloy 5251 H22/H24
SKIN THICKNESS	0.50mm
CORE TYPE	6.35mm (¼") cell size 5.20 pounds per cubic foot density 3003 series aluminium, treated to provide protection to corrosive atmospheres.
ADHESIVE TYPE	High strength, hot curing epoxy adhesive system with excellent fatigue resistance and good strength retention at elevated temperatures up to 70°C (158 °F).
PANEL THICKNESS	There are three types available from stock, these are shown below as overall thickness as well as core thickness. The thickness of the core has been specifically chosen so that standard aluminium extrusions and other material can be used for panel edging and inserts. See separate Product Profile for details of Edging, Joining and Attachment methods.

OVERALL PANEL THICKNESS	CORE THICKNESS	APPROXIMATE WEIGHT	DEFLECTION AT 445N (LONG BEAM)
13.70mm	12.70mm (½")	13.7kgs	3.40mm*
26.40mm	25.40mm (1")	17.0kgs	0.90mm*
51.80mm	50.80mm (2")	23.6kgs	0.20mm*
*Information is provided without acceptance of liability. Users should make their own assessment as to the suitability for a particular use.			

Alternative panel thicknesses and constructions are available.



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CELLITE 620 FIBER PANELS

SIZE	2440mm x 1220mm
SKIN TYPE	Woven glass cloth, impregnated with an epoxy resin system
RECOMMENDED MAX END USE TEMP	100°C (212°F)
SKIN LAYERS	2 plies to both faces
CORE TYPE	6.35mm (¼") cell size 5.20 pounds per cubic foot density 3003 series aluminium, treated to provide protection to corrosive atmospheres
PANEL THICKNESS	There are three types available from stock, these are shown below as overall thickness as well as core thickness. The thickness of the core has been specifically chosen so that standard aluminium extrusions and other material can be used for panel edging and inserts. See separate Product Profile for details of Edging, Joining and Attachment methods

OVERALL PANEL THICKNESS	CORE THICKNESS	APPROXIMATE WEIGHT	DEFLECTION AT 445N
13.90mm	12.70mm (½")	9.20kgs	8.90mm*
26.60mm	25.40mm (1")	12.40kgs	2.05mm*
52.00mm	50.80mm (2")	20.81kgs	0.60mm*
*Information is provided without acceptance of liability. Users should make their own assessment as to the suitability for a particular use.			

Alternative panel thicknesses and constructions are available.

JOINING & FABRICATION: All Cellite Panels can be joined together to form larger flat sheets. Alternatively they can be fabricated into complex structures by using various joining and folding techniques.

ATTACHMENT METHODS & EDGE DETAIL: A whole range of fastening methods may be used to add attachments and fixing points. Edge and corner finishing details can be added as required.

This is not a specification. The information given in this data sheet in relation to the performance, storage and other characteristics of the product is based on results gained from experience and tests and is believed to be accurate. Given, however, that conditions of use and storage will vary, Amber Composites will not be liable for any loss or damage resulting from reliance upon such information. The purchaser is recommended to carry out his own tests to establish the suitability of the product for its particular purpose. The use of the product in certain processes may require third party consent.