

Product description

alutri™ is an aluminium composite panel comprising a polyethylene core sandwiched between two sheets of high strength aluminium skin. The external surface is coated with a high performance decorative finish.

Application

alutri™ is designed as a decorative external facade and can also be used in internal wall and signage applications

Core material Polyethylene core (a fire resistant core available if required)

Skin Material Alloy A1100 H18

Available Coatings PVDF or PE

Panel Physical Properties

Property	Measurement
Total Panel Thickness	3mm
	4mm
	5mm
	6mm
Aluminium Alloy Thicknesses	0.12mm
	0.15mm
	0.18mm
	0.21mm
	0.31mm
	0.40mm
	0.45mm
	0.50mm
Standard Panel Size	
Width	1250mm
	1550mm
Length	3200mm
	4000mm
Maximum Custom Panel Size	Custom width and length available upon request subject to minimum quantities
Width	1575mm
Length	6000mm
Panel Weight	5.65 kg /m ² for 4mm/0.50mm thick panel
Product Tolerances	
Width	± 3mm
Length	± 2 mm
Thickness	± 0.2mm
Squareness	Maximum 5.0mm
Edge Squareness	Maximum 1.0mm

Mechanical Properties for 4mm Thick Panel

Property	Test	Result
Tensile Strength	ASTM E8-04	40MPa
Elongation	ASTM E8-04	5%
Bending Elastic Modulus E	GB/T 17748-1999-19	29 x 10 ³ MPa
Bending Strength	GB/T 17748-1999-18	120MPa

Coating Properties

Properties	Test	Condition	Result
Coating thickness	ISO 2360 : 2003		28um
60° Gloss	ASTM D523- 89		35 micron
Pencil Hardness	ASTM D3363-00	Pencil Mitsubishi	Scratch Hardness: 2H
Abrasion Resistance	ASTM D968-2001		51 L/mil
Adhesion			
Dry	AAMA 2605-02	Cut Space : 1mm Tape : 3M 610 [#]	Better than 4B
Wet	AAMA 2605-02	In water, 38°C for 24 hrs Cut Space : 1mm Tape : 3M 610 [#]	Better than 4B
Boiling	AAMA 2605-02	In water, 100°C for 20 mins Cut Space : 1mm Tape : 3M 610 [#]	Better than 4B

Quality Assurance

alutri™ panels are manufactured in accordance with ISO9001 quality systems.