

Technical Details

Date 07/2025

Property	Units	Value			
Surface Properties					
Face Finish		Polyester Paint: white and colours			
Surface Pencil Hardness		> HB			
Paint Thickness	micron	17 +/- 2			
Paint Coating Flexibility		3T			
Gloss Level Tolerance		+/- 5%			
Physical Properties		2mm	3mm	4mm	6mm
Aluminium Thickness	mm	0.3	0.3	0.3	0.3
Weight	Kg/m²	2.9	3.8	4.75	6.6
Panel Thickness Tolerance	mm	+/- 0.2			+/- 0.4
Sheet Flatness Tolerance	0 – ≤2mm across any measured point of the panel perimeter from a flat surface				
Aluminium Thickness Tolerance	Complies to EN 485-3				
Core Composition	100% Recycled, washed, filtered post-consumer use LL/LDPE, < 20% LLDPE				
Core Density	g/cm	0.94 (+/- 0.03)			
Width Tolerance	mm	0 - +2			
Length Tolerance	mm	0 - +3			
Diagonal Tolerance	mm	0 - +4			
Mechanical		2mm	3mm	4mm	6mm
Rigidity	kNcm²/m	298	753	1414	3357
Peel Strength	N/mm	> 3			
Tensile Strength of Aluminium Layers	MPa	149			
Modulus of Elasticity	N/mm²	70'000			
Elongation	%	A50 >3			
Thermal					
Temperature Resistance	°C	-20 to +80			
Thermal Expansion	mm/m°C	0.024			
Thermal Resistance	m² K/W	0.0057			
Acoustic					
Sound Absorption α _s		0.05			
Sound Insulation R _w		24			

Fire Classification*

Standard	Class
EN13501-1	C-s2,d0

*PE finishes, not Brushed or Mirror finishes

Warranty:

Alupanel with PE paint & Silver Aluminum Brushed finishes have a 5-year limited warranty for external use. All other coloured Brushed finishes & Mirror finishes have a 5-year warranty for internal use only.

Did you know:

Recycling: All products from the Alupanel range can be recycled after use- ask your sales rep about our Closed Loop Recycling Scheme

Fire Rating: for projects in public areas and events which require a higher level of fire rating we also have a Alupanel FR core version of the product- ask your sales rep for more information.

