

## Technical Details

Date 07/2025

Property	Units	Value			
<b>Surface Properties</b>					
Face Finish		Polyester Paint: white and colours			
Surface Pencil Hardness		> HB			
Paint Thickness	micron	17 +/- 2			
Use of Coating Adhesives		3T			
Gloss Level Tolerance		+/- 5%			
<b>Physical Properties</b>		<b>2mm</b>	<b>3mm</b>	<b>4mm</b>	<b>6mm</b>
Aluminium Thickness	mm	0.3	0.3	0.3	0.3
Weight	Kg/m <sup>2</sup>	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			
<b>Mechanical</b>		<b>2mm</b>	<b>3mm</b>	<b>4mm</b>	<b>6mm</b>
Rigidity	kNcm <sup>2</sup> /m	298	753	1414	3357
Peel Strength	N/mm	> 3			
Tensile Strength of Aluminium Layers	MPa	149			
Modulus of Elasticity	N/mm <sup>2</sup>	70'000			
Elongation	%	A50 >3			
<b>Thermal</b>					
Temperature Resistance	°C	-20 to +80			
Thermal Expansion	mm/m°C	0.024			
Thermal Resistance	m <sup>2</sup> K/W	0.0057			
<b>Acoustic</b>					
Sound Absorption α <sub>s</sub>		0.05			
Sound Insulation R <sub>w</sub>		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.

