

## Technical Details

Date 11/2024

Property	Units	Value			
		2mm	3mm	4mm	6mm
<b>Physical</b>					
Aluminium Thickness	mm	0.2	0.2	0.2	0.2
Weight	Kg/m <sup>2</sup>	2.6	3.5	4.5	6.3
Face Finish	Brushed, Polyester Paint				
Core Composition	LDPE				
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				
Aluminium Alloy	1100				
Core Density	g/cm <sup>3</sup>	0.94 (+/- 0.03)			
Width Tolerance	mm	0 - +2			
Length Tolerance	mm	0 - +3			
Diagonal Tolerance	mm	0 - +4			
<b>Mechanical</b>					
Rigidity	kNcm <sup>2</sup> /m	223	540	995	2410
Surface Pencil Hardness	> HB				
Paint Thickness (Painted Coils Only)	micron	17 +/- 2			
Toughness of Coating	3T				
Peel Strength	N/mm	> 3			
Tensile Strength of Aluminium Layers	MPa	158			
Modulus of Elasticity	N/mm <sup>2</sup>	70'000			
Gloss Level Tolerance	+/- 5%				
Impact Strength	Kg/cm <sup>3</sup>	42			
<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			

### Fire Classification

Standard (for white panels only)

D-s2-d0 EN13501-1

Guarantee: Alupanel Lite with a PE paint finish has a 2 year warranty for external use. Brushed Aluminium Panels now have a 2 year warranty for external use, all other brushed finishes are guaranteed for interior use only.