

Technical Details

Date 07/2024

Property	Units	Value			
		2mm	3mm	4mm	6mm
Physical					
Aluminium Thickness	mm	0.3	0.3	0.3	0.3
Weight	Kg/m ²	2.9	3.8	4.75	6.6
Face Finish	Brushed, Mirror, 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	5005				
Core Density	Kg/cm ³	0.94 (+/- 0.03)			
Width Tolerance	mm	0 - +2			
Length Tolerance	mm	0 - +3			
Diagonal Tolerance	mm	0 - +4			
Mechanical					
Rigidity	kNcm ² /m	298	753	1414	3357
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	170			
Modulus of Elasticity	N/mm ²	70'000			
Gloss Level Tolerance	+/- 5%				
Impact Strength	Kg/cm ³	60			
Thermal					
Temperature Resistance	°C	-20 to +80			
Thermal Expansion	mm/m°C	0.024			
Thermal Resistance	m ² K/W	0.0057			
Acoustic					
Sound Absorption α_s	0.05				
Sound Insulation R_w	24				

Fire Classification

Standard

D-s2-d0 EN13501-1

Warranty: Alupanel with a PE paint and a Silver Aluminum Brushed finish have a 5-year limited warranty for external use. All other coloured Brushed finishes and Mirror finishes have a 5-year warranty for internal use only. Please refer to the Alupanel Warranty document for more information.