



ALUPANELSMART

aluminium composite panel

Technical Details

Date 07/2024

Property	Units	Value			
Physical		2mm	3mm	4mm	6mm
Aluminium Thickness	mm	0.26	0.26	0.26	0.26
Weight	Kg/m²	2.72	3.62	4.57	6.42
Face Finish	Polyester Paint				
Core Composition	100% recycled, washed, filtered, post-consumer useLL/LDPE, <20% LLDPE				
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 Density	g/cm³	0.94 (+/- 0.03)			
Width Tolerance	mm	0 - +2			
Length Tolerance	mm	0 - +3			
Diagonal Tolerance	mm	0 - +4			
Mechanical					
Rigidity	kNcm²/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	165			
Modulus of Elasticity	N/mm²	70'000			
Gloss Level Tolerance	+/- 5%				
Impact Strength	Kg/cm³	50			
Thermal					
Temperature Resistance	°C	-20 to +80			
Thermal Expansion	mm/m°C	0.024			
Thermal Resistance	m² K/W	0.0057			

Fire Classification*

Class	Standard
C-s2-d0	EN13501-1
*PE finishes, not Brushed or Mirror	

Warranty:

Alupanel Smart with a PE paint finish has a 3 year warranty for external use.



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