



# ALUPANEL SMART

aluminium composite panel

## Technical Details

Date 07/2024

Property	Units	Value			
		2mm	3mm	4mm	6mm
<b>Physical</b>					
Aluminium Thickness	mm	0.26	0.26	0.26	0.26
Weight	Kg/m <sup>2</sup>	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/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	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/mm <sup>2</sup>	70'000			
Gloss Level Tolerance		+/- 5%			
Impact Strength	Kg/cm <sup>3</sup>	50			
<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			

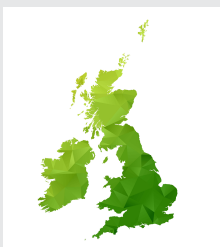
### Fire Classification\*

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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