



ALUPANELSMART

aluminium composite panel

Technical Details

Mar 2026

Property	Units	Value			
Physical		2mm	3mm	4mm	6mm
Skin	mm	0.26	0.26	0.26	0.26
Weight	Kg/m ²	2.72	3.62	4.57	6.42
Face Finish		Polyester Paint: white and colours			
Core Composition		100% recycled 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			
Core Density	g/cm ³	0.94 (+/- 0.03)			
Width Tolerance	mm	0 - +2			
Length Tolerance	mm	0 - +3			
Diagonal	mm	0 - +4			
Mechanical					
Rigidity	kNcm ² /m	271	672	1252	2951
Surface Pencil Hardness		> HB			
Toughness of Coating		3T			
Peel Strength	N/mm	> 3			
Tensile Strength of Aluminium Layers	MPa	149			
Modulus of Elasticity	N/mm ²	70'000			
Gloss Level Tolerance		+/- 5%			
Impact Strength	Kg/cm ³	50			
Thermal					
Temperature Resistance	°C	-20 to +80			
Thermal Expansion	mm/m°C	0.024			
Thermal Resistance	m ² K/W	0.0057			

Fire Classification*

Standard	Class
EN13501	C-s2-d0

Warranty:

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

Did you know...

Recycling

All products from the Alupanel range can be recycled after use- please ask your sales rep for information about our Closed Loop Recycling Scheme

Need a panel with more rigidity?

Standard Alupanel is a thicker skinned version of this panel for more complex fabrication- ask us for more information



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a multitude of applications

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