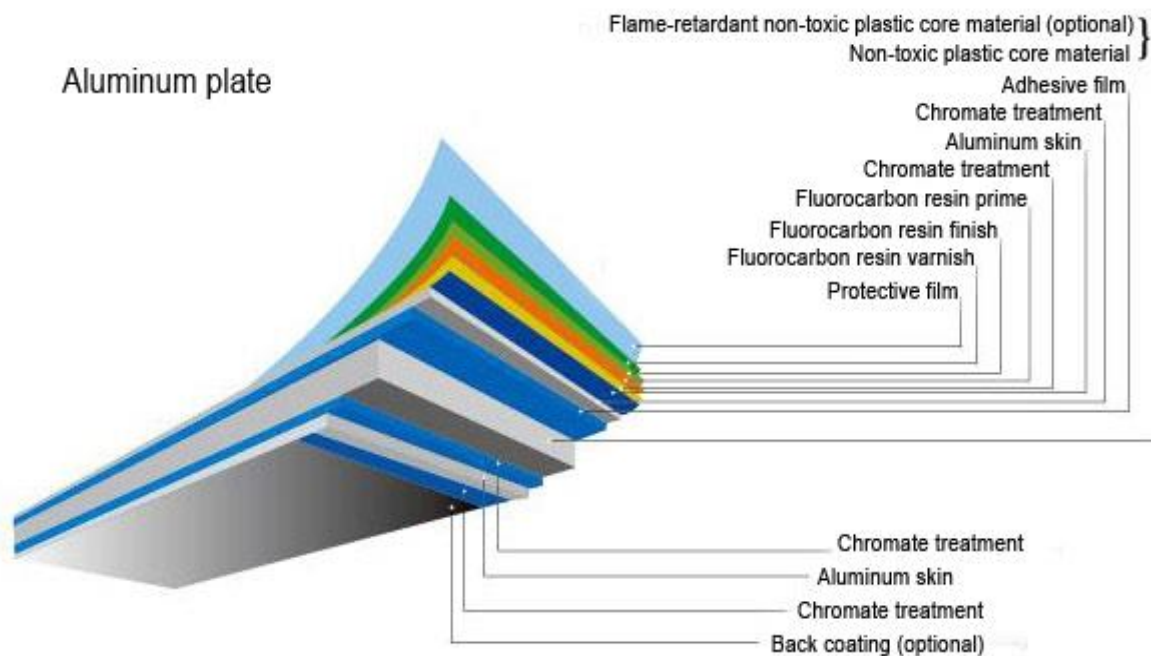


# Introduction of Aluminium Composite Panel

Aluminium plastic composite panel, referred to as aluminium panels and surface treatment is used as a surface coating of aluminium paint and polyethylene plastic sheeting as the core. Because the nature of aluminium plate is very different from metal and non-metallic materials, both retained the original composition of materials (aluminium, non-metallic polyethylene plastic) but also overcome the deficiencies of the original group of materials, and receive a large number of excellent material properties, such as luxury nature, colourful decoration, weathering, corrosion resistance, beat up, fire, moisture, sound insulation, heat insulation, shock resistance, light weight, easy processing, easy handling installation.





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ITEM		TECHNICAL DATA	
		Panel Dimensions	Dimension Tolerances
Panel thickness		3mm	0mm-+0.2mm
Panel width		1220mm/1250mm/1500mm	0mm-+2mm
Panel length		Various lengths possible	0mm-+4mm
Aluminum thickness		0.12mm,0.15mm,0.21mm0.3mm,	0mm-+0.02mm
Aluminum alloy		1100	
Aluminum temper		H16/H18	
Core Density		Polyethylene 1.0g/cm <sup>3</sup>	
Coating		polyester	
coating thickness		PE ≥17μm	
gloss		gloss ≥70, tolerance ≤5	
		gloss <70, tolerance ≤10	
pencil hardness		≥HB	
flexibility		≤2T	
Adhesion grade		≥grade 1	
impact resistance		50KG.cm no peel out, no cracking	
Peel Strength 180 deg.		≥5 N/M	
abrasion resistance		≥5	
boiling water		Boiling for 2 hours without change	
chemical resistance	antipollution	≤25	
	alkaline resistance	2% NaOH,24h no change	
	acid resistance	2% HCL,24h no change	
	oil resistance	no change	
	solvent resistance	PVDF butanone, PE xylene, no change	
	detergent resistance	≥1000times, no change	
weather resistance	color uniformity	≤3	
	gloss loss grade	≥grade 2	
	with a warranty of 8-10 years	0 grade	
salt fog resistance		≥grade 2	
skin density,kg / m <sup>2</sup>		related valued ±0.5	
bend strength, Mpa		≥100	≥100
bend modulus elasticity, Mpa		≥2.0×10 <sup>4</sup>	≥2.0×10 <sup>4</sup>
penetration resistance, KN		≥9.0	≥9.0
shear resistance, Mpa		≥28.0	≥28.0
peel-off resistance, N/mm		≥7.0	≥7.0
temp difference resistance		no change	
thermal expansivity, °C		≤400×10 <sup>-6</sup>	
thermal collapse temp, °C		≥90	