

# ALUMINIUM COMPOSITE PANEL



PANEL DIMENSIONS	
PANEL THICKNESS (mm)	3
ALUMINIUM SKIN THICKNESS (mm)	0.30/0.30
CORE TYPE	Low Density Polyethylene (LDPE)
WEIGHT (Kg/m <sup>2</sup> )	4.2

DIMENSIONAL TOLERANCE		
THICKNESS (mm)	±0.2	
WIDTH (mm)	±2	
LENGTH (mm)	±3	
DIAGONAL (mm)	≤5	
WARP	≤3.2 (put the panel on the glass platform)	
THERMAL EXPANSION	2.4mm/m (100°C Temp Difference)	
COLOUR DIFFERENCE	White	ΔE≤0.5
	Metallic	ΔE≤1.0
	Colours	ΔE≤1.5

SURFACE PROPERTIES	
COATING THICKNESS (Micron)	From 25um to 65um (varies per paint colour and finish)
PENCIL HARDNESS	2H
LACQUERING	FEVE
TEMPERATURE RESISTANCE	-40°C...+80°C
GLOSS (Initial value)	30%–90% (varies per product and paint finish)
BOILING WATER RESISTANCE	Boiling for 2hrs without change
ACID RESISTANCE	Surface immersed in 2% HCl for 24hrs without change
ALKALI RESISTANCE	Surface immersed in 2% NaHO for 24hrs without change
OIL RESISTANCE	Surface immersed in 20# engine Oil for 24hrs without change
SOLVENT RESISTANCE	Cleaned 100 times with Dimethylbenzene without change
PEEL STRENGTH 180°	≥5.0N/MM

PRODUCT PROPERTIES	
ALUMINIUM ALLOY	High-quality Marine-Grade 5000 series aluminium
SURFACE HARDNESS	45
EXTENSION AND MANUFACTURING CHARACTERISTICS (%)	7
BENDING STRENGTH (MPa)	133.59
SHEARING STRENGTH (MPa)	27.75

*This product does not comply with AS 1530.1. Please discuss fire ratings and compliance with a fire engineer or industry professional.  
This product is classified as combustible.*