

# PRO PANEL

## Aluminium Composite Panel Data Sheet

### Production Description

PRO PANEL Aluminium Composite Panel is a new decorative material used ever increasingly by developers, designers and architects world wide for various applications. The advantages of using this material over conventional material like Stone, Tiles and Paint are far too many.

PRO PANEL Aluminium Composite Panel also known to many as sandwich panel consists of a Polyethylene core sandwiched between two aluminum sheets. These Panels are very versatile and can be used in many applications. The entire panel consists of 3 main layers.

### Feature:

1. With High Glossy and Vivid Colours as PE coating;
2. With High Weather Resistant as PVDF coating;
3. High Surface Hardness, Pencil Hardness is over 4H.



FEVE coating

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PVDF coating

## Special for markedness building and Sign Industry

Service Life: 8-10 years

### Product Specifications:

Property	Measurement
Panel Thickness	2mm, 3mm, 4mm, 5mm, 6mm
Aluminium Thickness	0.12mm, 0.15mm, 0.18mm, 0.21mm, 0.30mm, 0.40mm, 0.50mm
Standard Panel Size	1220*2440mm, 1250*2500mm, 1250*3200mm 1500*3200mm, 1500*4050mm, 1500*6000mm 1550*6000mm
Customs Panel Size	Maxi Width: 1800mm, Maxi Length: 6000mm
Panel Weight	2.5kg/m <sup>2</sup> (2mm/0.12mm) 4.1kg/m <sup>2</sup> (3mm/0.30mm) 4.9kg/m <sup>2</sup> (4mm/0.30mm) 6.7kg/m <sup>2</sup> (5mm/0.50mm) 7.5kg/m <sup>2</sup> (6mm/0.50mm)

Panel Tolerances	Width Length Thickness Diagonals Windage Edge Wave Warpage	+/-2mm +/-3mm +/-0.2mm Less than 3mm Less than 1mm/m Less than 3mm/m
Property	3mm	4mm
Surface Density	3.8-4.1kg/m <sup>2</sup>	4.9-5.8kg/m <sup>2</sup>
Bending Strength	83MPa	108MPa
Bending Elasticity Module	2.2 x 10 <sup>-4</sup> MPa	2.83 x 10 <sup>-4</sup> MPa
Penetrating Resistance	5.5Kn	12Kn
Shear Strength	22Mpa	30Mpa
180 Peel Strength	7N/mm	10.4N/mm
Thermal Expansion	1.60 x 10 <sup>-5</sup> □	1.60 x 10 <sup>-5</sup> □
Temperature Resistance	109□	108□

### Acoustic Properties

Property	Result
Transmission Loss ( 100HZ TO 5KHZ )	29dB

### Coating Properties

Property	FEVE
Coating Thickness	M in 25 um
Pencil Hardness	4H
Coating Flexibility	3T
Adhesion	Grade 1 Circling Grade 0 by Cross Cutting
Impact Resistance	50kg/cm, no coating remove No aluminium crack
Washing and Brushing	>10000 no change
Aberration ≤ 3.0	1.4
Chalking Grade	Grade 1
Other aging properties	Grade 0



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