



Aluminum Composite Panel

DATA SHEET

Production Description

ALUCOBEST Aluminum 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.

ALUCOBEST Aluminum 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.

Panel Physical Properties

Property	Measurement
Panel Thickness	2mm, 3mm
Aluminum Thickness	0.20mm
Panel Size	1000*2050mm, 1250*2550mm, 1550*3050mm
Panel Weight	2.80kg/m ² (2mm/0.20mm) 3.75kg/m ² (3mm/0.20mm)
Panel Tolerances	
Width	+/-2mm
Length	+/-3mm
Thickness	+/-0.2mm
Diagonals Windage	Less than 3mm
Edge Wave	Less than 1mm/m
Warpage	Less than 3mm/m

Mechanical Properties

Property	2mm 0.20mmALU	3mm 0.20mmALU
Unit Weight	2.80kg/m ²	3.75kg/m ²
Bending Strength	64MPa	64MPa
Bending Elasticity Module	2.6 x 10 ⁴ MPa	2.2x 10 ⁴ MPa
Penetrating Resistance	3.2Kn	4.1Kn
Shear Strength	19.2Mpa	17.3Mpa
180 Peel Strength	5.6N/mm	5.6N/mm
Thermal Expansion	x 10 ⁻⁵ °C	x 10 ⁻⁵ °C
Temperature Resistance	95°C	95°C

Acoustic Properties

Property	Result
Transmission Loss (100HZ TO 5KHZ)	26dB

Coating Properties

Property	Polyester
Coating Thickness	Min 16 um
Pencil Hardness	2H
Coating Flexibility	2T
Adhesion	Grade 1 Circling Grade 0 by Cross Cutting
Impact Resistance	50kg/cm, no coating remove No aluminum crack
Washing and Brushing	>10000 no change
Aberration ≤3.0	N/A
Chalking Grade	N/A
Other aging properties	N/A