

Product: Aluminium Composite Panel

ACP Dimensions

Sr. No.	TEST ITEM	RESULTS		
1.	Total thickness	3mm	3mm	3mm
2.	Aluminum skin thickness	0.18mm	0.25mm	0.30mm
3.	Standard Sizes	1220x2440 , 1500x3050 , 1500x4050		

Dimensional Tolerances

1	Panel Thickness	$\pm 0.2\text{mm}$	$\pm 0.2\text{mm}$	$\pm 0.2\text{mm}$
2	Aluminum Thickness	$\pm 0.02\text{mm}$	$\pm 0.02\text{mm}$	$\pm 0.02\text{mm}$
3	Width	$\pm 2\text{mm}$	$\pm 2\text{mm}$	$\pm 2\text{mm}$
4	Length	$\pm 3\text{mm}$	$\pm 3\text{mm}$	$\pm 3\text{mm}$
5	Diagonal	$\pm 5\text{mm}$	$\pm 5\text{mm}$	$\pm 5\text{mm}$

Surface Properties

1	Paint	PE(polyester)	PE(polyester)	PE(polyester)
2	Paint Thickness	$17 \pm 1 \mu\text{m}$	$17 \pm 1 \mu\text{m}$	$17 \pm 1 \mu\text{m}$
3	Pencil Hardness	$\geq 2\text{H}$	$\geq 2\text{H}$	$\geq 2\text{H}$
4	Toughness of Coating	$\leq 3\text{T}$	$\leq 3\text{T}$	$\leq 2\text{T}$
5	Impact Strength	30kg*cm(No crack in Paint)	30kg*cm(No crack in Paint)	30kg*cm(No crack in Paint)
6	Adhesion Force	100/100 No peel		
7	Boiling Water Resistance	Boiling for 2H no change		
8	Solvent Resistance	Cleaned 200times with Dimethylbenzene without change		
9	Cleaning Resistance	> 1000 times without change		
10	Peel Strength 180°	$\geq 3\text{N/mm}$	$\geq 3.5\text{N/mm}$	$\geq 4\text{N/mm}$

Product Properties

1	Weight (kg/m ²)	0.731 lb/ft ² (3.57kg/m ²)	0.766 lb/ft ² (3.74kg/m ²)	0.836 lb/ft ² (4.08kg/m ²)
2	Sound Absorption NRC	0.05	0.05	0.05
3	Sound Attenuation Rw db	24	24	24
4	Water Absorption % By Volume	0.01	0.01	0.01
5	Core Composition	Polyethylene	Polyethylene	Polyethylene