



CBond LITE Aluminium Composite Panels

Not suitable for fabrication or cladding, please see note below

TEST DESCRIPTION	TEST RESULT - PRODUCT QUALITY		
DIMENSION DEVIATION	Length Difference: ± 2mm		
	Width Difference : ± 1mm		
	Thickness Difference : ± 0.1mm		
	Diagonal Deviation : ≤3 mm		
	Out of straight at sides : ≤1 mm/m		
	Warp : ≤ 3.5 mm/m		
APPEARANCE	Clean surface without swelling, flaws, scratches and aberrations		
LUSTER DEVIATION	Face : ±8		
	Back : ±8		
COATING THICKNESS	Face : ≥ 16.0um		
	Back : ≥ 16.0um		
SURFACE DENSITY (KGS/M2)	3mm panel	Aluminum thickness : 0.12mm	4.01
		Aluminum thickness : 0.15mm	4.13
PENCIL HARDNESS	≥ 2H		
COATING TOUGHNESS	Inner Panel ≤ 1.5T		
ADHENSIVE	No less than grade 1		
IMPACT STRENGTH	50Kg.cm Without peeling & cracking of paint		
RESISTANCE TO SOLVENT	No exposed at the bottom after cleaning 100 times with butanone		
180° PEEL STRENGTH (N/mm)	3mm panel	Aluminum thickness : 0.12mm	≥ 3.0
		Aluminum thickness : 0.15mm	≥ 3.0
TEMPERATURE RESISTANCE	unchanged after -40°C to 80°C 20 cycles		
COEFFICIENT OF HEAT EXPANSION	≤ 3.00x10 ⁻⁵ °C ⁻¹		
DEFORMATION TEMPERATURE	≥ 95°C		
MODULUS OF ELASTICITY	3mm panel	Aluminum thickness : 0.12mm	≥1.49x104Mpa
		Aluminum thickness : 0.15mm	≥1.6x104Mpa
THROUGH RESISTANCE (RIGIDITY)	3mm panel	Aluminum thickness : 0.12mm	≥ 5.0KN
		Aluminum thickness : 0.15mm	≥ 5.5KN
Warranty Period	Polyester Finish	5 years	
	Delamination	5 years	
Fire Rating	B2	DIN 4102	

CLADDING: Lite ACP sheets 0.12mm skins have the same colour longevity as well as warranty as signage grade however they are not ideal for large areas of cladding for the following reasons. Cbond Lite Aluminium Composite Panels are also not suitable for fabrication.

1. Rigidity – these are not as rigid as the premium signage grade as they have 0.12mm skins whereas signage grade has 0.3mm skins
2. Structural strength a lot less than signage grade. Whatever you put behind to support it, it would still become wavy and easy to bend.
3. More support and rivets or screws / adhesives are needed to compensate for the less strong sheet.

NB! all arrows on back of cladding must face in the same direction. Longitudinal roughness, Horizontal flatness and Corner warpage should be tested on a horizontal surface. All above information shall only be used as a guide. Buyers shall independently test and determine the products suitability.

Explanation: Restrictions on exposed outer skin and PE centre on the front surface of a sign created by routing or similar methods will reduce warranty to 3 years. If a router is used to create a grout type look i.e. - a 10mm wide groove approx. 0.5mm deep in full sized ACP sheet to make it look like grouting. This exposed section has no polyester coating to protect it from the elements.

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