



CBond Aluminium Composite Panels - Signage Grade

Panel Thickness	Standard	Unit	3mm	4mm	6mm
Thickness of Aluminium	DIN 1784	mm	0.3	0.3	0.3
Aluminum thickness deviation	DIN 1784	mm	±0.02	±0.02	±0.02
Weight		Kg/m ²	4.57	5.81	8.27
Tolerance in length	DIN 16927 / ISO 11833-1	mm	±2	±2	±2
Tolerance in width	DIN 16927 / ISO 11833-1	mm	- 0 / +1.5	- 0 / +1.5	- 0 / +1.5
Tolerance in thickness	DIN 16927 / ISO 11833-1	mm	± 0.10	± 0.10	± 0.15
Longitudinal roughness	DIN ISO 1101	mm	5	5	5
Horizontal flatness	DIN ISO 1101	mm	3	3	3
Corner warpage	DIN ISO 1101	mm	3	3	3
Section Modulus W	DIN 53293	cm ³ /m	1.25	1.75	2.75
Rigidity (Poisson's ratio $\mu = 0.3$) E.I	DIN 53293	kNm ² /m	0.14	0.28	0.63
Alloy	EN 573-3	ENAW	1100		
Temper of Cover Sheets	EN 515		H16/H18		
Modulus of Elasticity	EN 1999 1-1	N/mm ²	70 000		
Tensile Strength of Aluminium	EN 485-2	N/mm ²	R _m ≥ 145		
0.2% Proof Stress	EN 485-2	N/mm ²	R _{p0.2} ≥ 100		
Elongation	EN 485-2	%	A ₅₀ ≥ 2		
Linear Thermal Expansion	EN 1999 1-1	mm/m/°C	2.4 at 100°C temperature difference		
Core					
Polyethylene, Typ LD-PE		g/cm ³			
Surface					
Lacquering					
Thickness of coating		µm	≥16	≥16	≥16
Gloss (initial value)	ECCA T2	%			
Pencil Hardness	ECCA T4				
Acoustical Properties					
Sound Absorption Factor α_s	ISO 354				
Sound Transmission Loss R _w	ISO 717-1	DB	25	26	28
Loss Factor d	EN ISO 6721		0.0072	0.0087	0.0138
Thermal Properties					
Thermal Resistance R	DIN 52612	m ² K/W	0.0069	0.0103	0.0172
Heat Transition Coefficient U	DIN 4108	W/m ² K	5.65	5.54	5.34
Temperature Range		°C	-50...+80		
FR test	EN— 13501		B2 (with Fireproofing core)		
Colour difference	matt (white, silver)		ΔE≤1.0		
	bright (red, yellow, blue, green)		ΔE≤2.0		
Warranty Period	Polyester Finish	5 years			
	Delamination	5 years			
<p>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 independantly test and determine the products suitability.</p>					
<p>Explanantion: 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.</p>					

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