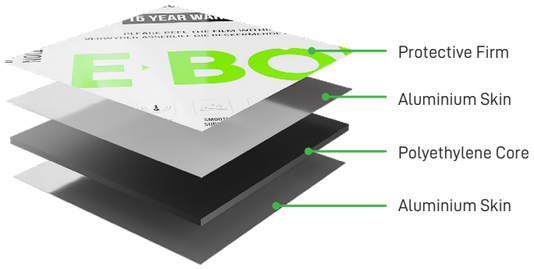
E·BOND

SPECIFICATION SHEET

0.30MM SKIN
2MM & 3MM THICKNESS



FEATURES

- Excellent resistance to UV radiation.
- Designed for easy processing and fabrication.
- Can be easily bent or curved to achieve various design possibilities.
- Features a smooth and even surface finish.
- Environmentally friendly.
- Comes with a 15-year warranty.

PROPERTY	UNIT	DATA	
		2mm ACM	3mm ACM
ALUMINIUM			
Thickness of Aluminium	mm	0.30	
Aluminium Thickness Deviation	mm	±0.02	±0.02
Alloy/Temper		1100 H18, 3003 H22, 3105 H24, 5005 H32	
WEIGHT & SIZE TOLERANCE			
Panel Weight	Kg/m^2	3.38	4.56
Tolerance in Length	mm	+/- 2	+/- 2
Tolerance in Width	mm	+/- 2	+/- 2
Tolerance in Thickness	mm	± 0.15	± 0.10
TECHNICAL PROPERTIES			
Section Modulus (W)	cm^3/m	0.51	0.81
Rigidity (Poisson's Ratio, y = 0.3) (E.J)	$kNcm^2/m$	345	865
Modulus of Elasticity	N/mm^2	70,000	
Tensile Strength of Aluminium	N/mm^2	Rm ≥ 145	
0.2% Proof Stress	N/mm^2	Rp0.2 ≥ 100	
Elongation	%	A50 ≥ 2	
Linear Thermal Expansion	mm/m/°C	2.4 at 100°C Temp difference	

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PROPERTY	UNIT	DATA	
		2mm ACM	3mm ACM
POLYETHYLENE CORE			
Light Density Polyethylene, LD-PE	g/cm^3	0.92 - 0.95	
COATING		**POLYESTER (PPG, Nippon, Valspar, Beckers)**	
Thickness of Coating	µm	≥17 to 21	≥17 to 21
Surface		Coil Coating	
T-Bending		2T	
Color Variation Tolerance		ΔE≤1.0	
Gloss (Initial Value)	%	20% - 95%	
Pencil Hardness		HB-F	
ACOUSTICAL PROPERTIES			
Sound Absorption Factor ás		0.05	
Sound Transmission Loss Rw	DB	23	25
Loss Factor d		0.0062	0.0072
THERMAL PROPERTIES			
Thermal Resistance R	m^2K/W	0.0036	0.0069
Heat Transition Coefficient U	W/m^2K	5.98	5.65
Temperature Range	°C	-50 to +80 Deg C	

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