



Guangdong Bolliya Metal Building Materials Co.,Ltd
Handa Building Materials (YINGDE) Co.,Ltd

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Technical Data Sheet

Dual Metal Aluminium Panel (AL + AL)

Basic information

Item	Value	Tolerance
Panel thickness	3mm	+/-0.2mm
Aluminum skin thickness	(0.7mm top +2mm bottom)	+/-0.2mm
Aluminum alloy	1100, 3003, 5005	
Bond Agent	Micromolecular Adhesive Film 0.15mm	
Panel width	1250mm, 1500mm, 1575mm, 2000mm	+/-2mm
Panel length	1000mm to 5800mm	+/-6mm
Coating Types	PVDF	
Coating Thickness	25microns	+/-3microns
Panel weight	7.5 kgs/sq.m	+/-5%

Fire retardant Properties

Property	Test Method	Test result
External cladding	EN13501-1	class A2 s1 d0

Mechanical Properties (for the top layer skin 0.5mm or 0.7mm)

Suitable for Temperature		-50 to +80°C
Tensile Strength of Aluminium Skin	ASTM E84	170Mpa
Elongation of Aluminium Skin	ASTM E84	8%
Tensile Strength of Panel	ASTM E84	0.8Mpa
Climbing Drum Peeling Strength	ASTM ED1781-98	256 N·mm/mm
180° Peeling Strength	ASTM D903-98	13 N/mm

Painting Dry Film Properties

Property	Test Method	Test result
60" gloss	ASTM D523-89	20-95
Formability(T-bend)	ASTM D1737-62	≤2T
Hardness Pencil	ASTM D3363-92a	1-2H
Adhesion	ASTM D3359, Method 8	No change
Abrasion Resistance	ASTM D968-93(Falling Sand)	25 liter/mil
Chemical Resistance	ASTM D1308-79	No change
	ASTM D1308-79	No change
	AAMA 2605-05 Section 7.7.2	No change
	ASTM D2248-73	No change

Weatherability

Property	Test Method	Test result
Color Retention	ASTM D2244-93	Qualified
Gloss Retention	ASTM D523-89	Qualified
Chalking	ASTM D4214-89	Qualified
Salty Spray	ASTM D-B117-90&NCCA 11-2	Qualified
Humidity Thermal	ASTM D2246-65	Qualified
Humidity	ASTM D2247-94	Qualified
Condensing Humidity	ASTM D4585-87	Qualified