



Guangdong Bolliya Metal Building Materials Co.,Ltd

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ACP Technical Data Sheet

Basic information:

Item	Value	Tolerance
Panel thickness	4mm	+/-0.2mm
Aluminum skin thickness	0.5mm / 0.5mm	+/-0.02mm
Aluminum alloy	3003 H16	
Core	Mineral Filled FR core	
Panel width	1250mm	+/-2mm
Panel length	2440mm to 5800mm	+/-3mm
Coating Types	PVDF	
Coating Thickness	25microns	+/-3microns
Panel weight	7.2kgs/sq.m	+/-5%

Fire retardant Properties

Property	Test Method	Test result
Flame Spread Index	ASTM E84	0
Smoke Developed Index	ASTM E84	105 (class A)
External cladding	NFPA 285	pass
External cladding	BS476 part6 & 7	class O (Malaysia COA Compliance)
External cladding	EN13501-1	class B1

Mechanical Properties

Property	Test Method	Test result
Peak Load	ASTM C297	315lb _f
Tensile Strength		315psi
Yield Strength	ASTM E8	22,821psi
Tensile Strength		25,835psi
Modulus of Elasticity		9,951,636psi
Tensile Strength	ASTM D638-10	61.6MPa
Flexural Strength	ASTM D790-10	128MPa
Flexural Modulus		11720MPa
Shear Strength	ASTM D732-10	34.2MPa
Shear resistance		10584N
Climbing Drum Peel Strength	ASTM D1781-98 (2012)	163N·mm/mm
Sound Transmission Class (STC)	ASTM E90 & ASTM E413	26dB

Painting Dry Film Properties

Property	Test Method	Test result
60" gloss	ASTM D523-89	30-95
Formability(T-bend)	ASTM D1737-62	2
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