

Handa Building Materials (YINGDE) Co.,Ltd

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Technical Data Sheet

Product: Aluminium Honeycomb Panel

Basic information		
Item	Value	Tolerance
Panel thickness	10mm	+/-0.2mm
Aluminum skin thickness	1mm (Top)+ 0.7mm (Bottom)	+/-0.02mm
Aluminum alloy	3003	
Core	Aluminium Honeycomb A6*0.05	
Panel width	1220mm / 1250mm / 2000 (max)	+/-2mm
Panel length	≤12000mm	+/-6mm
Diagonal	N/A	≤5mm
Flatness	N/A	≤5mm/m
Coating Types and thickness	Top side: PVDF 25microns	+/-3microns
	Bottom side: PE 15microns	+/-3microns
Panel weight	5.72kgs/sq.m	+/-5%

Mechanical Properties		
Property	Test Method	Test result
Tensile Strength, R _m	ASTM E8/E8M-11 (Testing on top aluminium skin)	159Mpa
Yield Strength R _{p0.2}		146Mpa
Percentage Elongation after Fracture, A _{50mm}		17%
Coefficient of Linear Thermal Expansion (1/°C)	ASTM D696-08	-30°C~30°C: 29.89x10 ⁻⁶
Core Shear Ultimate Strength	With reference to ASTM C393M-06 3points loading	0.77Mpa
Peel Torque	With reference to ASTM D1781-98(2012)	7.23mm·kgf/mm

Fire Proof Properties		
combustibility of Core	BS476 Part 4	Non combustible
Fire classification	BS476 Part 6 & 7	Class O

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	HB-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