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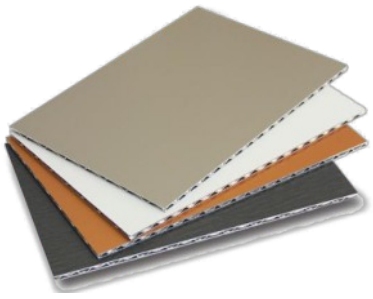
Technical data

CODE:	
PRODUCT:	ALP
NOTE:	TECHNICAL DATA
IMAGE:	
LAST UPDATE:	06/2025

ALUMINIUM LATTICE PANEL

Fire performance:

PROPERTY	TEST METHOD	TEST RESULTS
External cladding	GB 8624-2012	Class A2,s1,d0,t0

Measurement requirements:

ITEMS	TOLERANCE ALLOWED
Length (mm)	±2
Width (mm)	±2
Thickness (mm)	±0,2
Diagonal line (mm)	≤5
Edge evenness (mm)	≤1
Surface flatness (mm)	≤5

Appearance requirements:

FLAW NAME	FLAW STIPULATION	RANGE ALLOWED	
		CLASS A	QUALIFIED
Wave		no	Not obvious
Bulb	≤ 10 mm	no	≤ 1/m^2
Flaw spot	≤ 3 mm	Less than 3/m^2	≤ 10/m^2
Scratch	Total length	no	≤ 50 mm/m^2
Abrasive	Total area	no	≤ 150 mm/m^2
Total number of scratch and abrasive		no	≤ 4
Color difference	Not obvious,when test by equipment, ⊿E ≤ 2		

Mechanical performance requirements:

ITEMS		TECHNICAL REQUIREMENTS
Coating thickness (μm)		≥ 25
Gloss difference		gloss ≥ 70, ultimate tolerance ≤ 5 | gloss < 70, ultimate tolerance ≤ 10
Pencil hardness		≥ HB
Coating flexibility (T)		≤ 2
Adhesive, grade		Better than grade 1
Impact resistance		50 kg • cm, no depaint, no crack
Abrasive resistance (L/μm)		≥ 5
Chemical stability	Dirt resistance	≤ 15 %
	Acid resistance	No change
	Alkali resistance	No change
	Oil resistance	No change
	Solvent resistance	No change
	Brush resistance	≥ 10 000 times,no change
Artificial aging	Color difference	≤ 3,0
	Gloss loss	Better than grade 2
	Other aging ability	Grade 0
Salt moisture resistance		Better than grade 2
Face density (kg/m^2)		± 5 %
Tensile strength of aluminum skin		170 Mpa
Elongation of aluminum skin		8 %
Flatwise tensile strength		≥2,0 Mpa
Flatwise compressive strength		≥1,5 Mpa
Flatwise shear compressive		≥35 Mpa
Flexural strength		≥100 Mpa
Climbing drum peel strength		≥40 (N·mm)/mm
Flexural rigidity		≥8,0×10^7 N·mm^2
Shear stiffness		≥2,0×10^4N
Impact-resistance performance		No significant deformation and damage

ALUMINIUM LATTICE PANEL

Mechanical performance requirements:

ITEM		TECHNICAL REQUIREMENTS
Coefficient of thermal expansion		≤ $3,0\times10^{-5}$ °C^{-1}
Hot water resistance	Appearance	Normal
	Climbing drum pee	≥ 20 Mpa
	Coating adhesive	0 grade
Temperat ure cycle resistance	Appearance	Normal
	Climbing drum peel	≥ 30 Mpa
	Coating adhesive	0 grade