

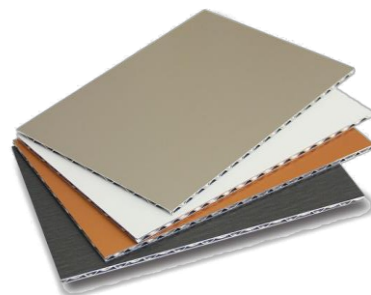
Technical data

CODE:**PRODUCT:**

ALP

NOTE:

TECHNICAL DATA

IMAGE:**LAST UPDATE:**

10/2021

ALUMINIUM LATTICE PANEL

Aluminum Lattice Panel (ALP) is fully tested and certified. Though looked no difference from the traditional panel, ALP is constructed by 100% aluminium structure instead of normal polyethylene or mineralfilled core. It is the best fire-proof building materials for fasade.

Panel information		
Sr. No.	TEST ITEM	RESULTS
01	Total thickness	4 mm
02	Aluminium skin thickness	0,7 mm for front; 0,5 for back
03	Standard width	1220 mm, 1250 mm, 1500 mm
04	Alloy and temper	EN AW AA3003H18
05	Unit weight	4,3 kg/m ²
Dimentional tolerances		
Sr. No.	TEST ITEM	RESULTS
01	Panel thickness	± 0,2 mm
02	Aluminum thickness	± 0,02 mm (EN485-4)
03	Width	± 2 mm
04	Length	± 3 mm
05	Diagonal	± 5 mm
06	Bow	Max 0,7% (5 mm/m) of length or width
Surface properties		
Sr. No.	TEST ITEM	RESULTS
01	Coating finish	Fluoropolymer (PVDF or FEVE)
02	Paint thickness (micron meter)	27±1
03	Pencil hardness	≥2H
04	Toughness of coating	≤2T
05	Adhesion force	100/100 no peel
06	Boiling water resistance	Boiling for 2H without change
07	Solvent resistance	Cleanced 200x with Dimethylbenzene without change
08	Acid resistance	Immerse Surface in 2% HCL for 48H without change
09	Alkali resistance	Immerse surface in 2% NaOH for 48H without change
10	Cleaning resistance	> 1000 times without change
Physical properties		
Sr. No.	TEST ITEM	RESULTS
01	Roll peel strength	169.9N.mm/mm 164.7N.mm/mm
02	Flatwise tensile strength	2,08 Mpa (≥ 2MPa)
03	Impact strength (kg/m ²)	50 (No cracking in both sides of the aluminium and no removal and craze in the coating)
04	Bending strength	130,7 Mpa (Lateral) 102,3 Mpa (Longitudinal)
05	Linear thermal expansion coefficient	2,04x 10 ⁻⁵ °C ⁻¹
Fire-proof properties		
Sr. No.	TEST ITEM	TEST ITEM
Fire rating	BS476-4	Non-combustible
	BS476-6	I=1
	BS476-7	Spread of Flame = 0
	BS EN13501-1	A2, s1, d0
	ASTM E84	Class A
	AS 1530.1 AS 1530.3	Non-combustible Fire behavior - A2 Smoke production - s1 Flaming droplets - d0