

Aludecor Compliance Statement

S.No.	Parameters	Units	Standards	Aludecor AL-43
Product Composition				
1	Alloy	.....	ASTM B209M	1100
2	Skin Thickness	mm	.....	0.25
3	Core material	....	.....	Virgin + First Grade Recycled LDPE
Product Dimension and Tolerance				
4	Panel thickness	mm	.....	4
5	Panel size	mm	.....	Width = 965 and 1220 mm Length = less than 6000 mm
6	Tolerance in Width	mm	.....	±2.0 mm
7	Tolerance in Length	mm	.....	±4.0 mm
8	Tolerance in Thickness (Panel)	mm	.....	±0.2 mm
9	Tolerance in Thickness (Coil)	mm	.....	±0.03 mm
10	Squareness	mm	.....	Maximum 5.0 mm
11	Bow	mm/m	.....	Maximum 0.8% of width and / or length
12	Paint Thickness	.....	.....	<u>Double Coat:</u> SDP - 24 μ -28 μ <u>Triple Coat:</u> SDP - 30 μ - 35 μ
13	Surface Defects	.....	....	The surface shall not have any irregularities such as roughness, buckling and other imperfections in accordance with our visual inspection rules.
Principal Properties				
14	Panel Weight	kg/m ²	.....	4.6
15	Thermal Expansion	×10-6 /°C	.....	24
Mechanical Properties of Aluminium Composite Material (ACM)				
16	Min. Tensile Strength	MPa or N/mm ²	ASTM E8	Min 20
17	Min. 0.2% Proof Stress	MPa or N/mm ²	ASTM E8	Min 15
18	Elongation (Min.)	%	ASTM E8	5
19	Flexural Strength	MPa or N/mm ²	ASTM C393	50
20	Min. Flexural Modulus	MPa or N/mm ²	ASTM D790	9000
21	Min. Shear Strength	MPa or N/mm ²	ASTM D732	12

Mechanical Properties of Aluminium Alloy

22	Tensile Strength	MPa or N/mm²	ASTM E8	Min 110
23	Modulus Of Elasticity	MPa or N/mm²	ASTM E8	70000
24	Min. Elongation, E	%	ASTM E8	2
25	Min. 0.2% Proof Stress	MPa or N/mm²	ASTM E8	70

Surface Properties

26	Gloss (60°)	....	ASTM D523-89	5-80
27	Colour Retention	....	AAMA 2604	Fade = 5 Delta E
28	Chalk Resistance	....	AAMA 2604	Chalk = 8
29	Gloss Retention	....	AAMA 2604	30% Gloss Retention
30	Salt Spray	....	AAMA 2604	3000 Hrs