Premium Panel

NORLAM™ NL610-10733-1000

Technical Data Sheet

Upper Skin Material	2024-T3 Aluminum Clad
Lower Skin Material	2024-T3 Aluminum Clad
Core Material	5052 Aluminum Core
Core Density	3/16 inch cell size; 5.7 lb/ft³
Max Weight	1.306 lb/ft²
Typical Weight	1.158 lb/ft²
Panel Thickness	1.000 in. ± 0.010 in.
Warpage[1]	0.025 in. maximum

Tested Physical Properties[2]	**Test Results Value[2]**		**Failure Mode[2]**	**Tested IAW[2]**
	A-Basis	**B-Basis**		
Long Beam Flexure[3]			Upper Skin Compression	ASTM C 393 ASTM D 7249
"L" Direction Skin Stress, psi	58,840	60,916		
"L" Direction P/Y, lb/in	1,803	1,984		
"W" Direction Skin Stress, psi	50,262	55,148		
"W" Direction P/Y, lb/in	1,757	1,854		
Short Beam Shear[3]			Core Shear	ASTM C 393
"L" Direction Stress, psi	385	422		
"W" Direction Stress, psi	259	271		
Stabilized Core Compression, psi[4]	-	-	Core Crush	ASTM C 365

Panel meets FAR 25.853(a)'s 60-second vertical burn requirements.

1: Panel warpage is measured as a maximum deviation from a straight line in a 4-foot span.

2: FAA approved allowables' data, per applicable FAA Form 8110-3, which is available upon request.

3: All data was calculated using a skin thickness of .020 inches.

4: Average value for Stabilized Core Compression during allowables testing was 656 psi.