



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/ft ³
Max Weight	1.306 lb/ft ²
Typical Weight	1.158 lb/ft ²
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.

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