Premium Panel

NORLAM™ NL610-10633-500

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; 4.4 lb/ft³
Max Weight	0.989 lb/ft²
Typical Weight	0.870 lb/ft²
Panel Thickness	0.500 in. ± 0.010 in.
Warpage[1]	0.025 in. maximum

Tested Physical Properties[2]	**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	44,336	47,762		
"L" Direction P/Y, lb/in	628	676		
"W" Direction Skin Stress, psi	41,723	44,086		
"W" Direction P/Y, lb/in	637	665		
Short Beam Shear[3]			Core Shear	ASTM C 393
"L" Direction Stress, psi	361	370		
"W" Direction Stress, psi	218	230		
Stabilized Core Compression, psi	536	573	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.

DISCLAIMER: The data is provided "AS IS, WHERE IS, ALL FAULTS (IF ANY) INCLUDED". NORDAM MAKES NO WARRANTY WHATSOEVER, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PURPOSE, CONCERNING THE DATA OR THE PRODUCTS. This data sheet is subject to change without notice. It is the user's responsibility to verify that the data sheet is the most current data sheet available. All products supplied are subject to NORDAM's standard terms and conditions of sale.