



Premium Panel
 NORBOND™ NB220-0133-500
 Technical Data Sheet

Upper Skin Material	E-Glass / Epoxy Resin
Lower Skin Material	E-Glass / Epoxy Resin
Core Material	Aramid Fiber Paper
Core Density	1/8 inch cell size; 3.0 lb/ft ³
Max Weight	0.353 lb/ft ²
Typical Weight	0.327 lb/ft ²
Panel Thickness	0.500 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]				
"L" Direction Skin Stress, psi	26,568	29,140	Upper Skin Compression	ASTM C 393 ASTM D 7249
"L" Direction P/Y, lb/in	110	119		
"W" Direction Skin Stress, psi	21,896	24,750		
"W" Direction P/Y, lb/in	93	97		
Short Beam Shear ^[3]				
"L" Direction Stress, psi	136	144	Core Shear	ASTM C 393
"W" Direction Stress, psi	78	91		
Stabilized Core Compression, psi	250	282	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 .010 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.

NORDAM PROPRIETARY & COMPANY CONFIDENTIAL INFORMATION. ACCESS & USE SUBJECT TO NORDAM'S FULL WARNING & RESTRICTION AT THE HEAD OF THIS DOCUMENT. REMOVAL OR ALTERATION OF THE FULL WARNING OR RESTRICTION MAKES THIS AN ILLEGAL COPY. 9E991 AT01

Uncontrolled Copy Printed On: 10/18/2018