



Premium Panel

NORBOND™ NB221-0155-1000

Technical Data Sheet

Upper Skin Material	E-Glass / Phenolic Resin
Lower Skin Material	E-Glass / Phenolic Resin
Core Material	Aramid Fiber Paper
Core Density	1/8 inch cell size; 3.0 lb/ft ³
Max Weight	0.703 lb/ft ²
Typical Weight	0.654 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]				
"L" Direction Skin Stress, psi	22,577	24,383	Upper Skin Compression	ASTM C 393 ASTM D 7249
"L" Direction P/Y, lb/in	614	683		
"W" Direction Skin Stress, psi	15,811	22,272		
"W" Direction P/Y, lb/in	131	343		
Short Beam Shear ^[3]				
"L" Direction Stress, psi	118	127	Core Shear	ASTM C 393
"W" Direction Stress, psi	42.9	60.6		
Stabilized Core Compression, psi	220	251	Core Crush	ASTM C 365

Panel meets FAR 25.853(a)&(d)'s 60-second vertical burn requirements, 65/65 heat release and smoke density 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.

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