



# Premium Panel

## NORBOND™ NB221-0155-500

### Technical Data Sheet

<b>Upper Skin Material</b>	E-Glass / Phenolic Resin
<b>Lower Skin Material</b>	E-Glass / Phenolic Resin
<b>Core Material</b>	Aramid Fiber Paper
<b>Core Density</b>	1/8 inch cell size; 3.0 lb/ft <sup>3</sup>
<b>Max Weight</b>	0.565 lb/ft <sup>2</sup>
<b>Typical Weight</b>	0.529 lb/ft <sup>2</sup>
<b>Panel Thickness</b>	0.500 in. ± 0.010 in.
<b>Warpage<sup>[1]</sup></b>	0.025 in. maximum

Tested Physical Properties <sup>[2]</sup>	Test Results Value <sup>[2]</sup>		Failure Mode <sup>[2]</sup>	Tested IAW <sup>[2]</sup>
	A-Basis	B-Basis		
Long Beam Flexure <sup>[3]</sup>				
"L" Direction Skin Stress, psi	22,487	27,729	Upper Skin Compression	ASTM C 393 ASTM D 7249
"L" Direction P/Y, lb/in	130	151		
"W" Direction Skin Stress, psi	14,867	17,758		
"W" Direction P/Y, lb/in	125	146		
Short Beam Shear <sup>[3]</sup>				
"L" Direction Stress, psi	128	146	Core Shear	ASTM C 393
"W" Direction Stress, psi	67.6	80.4		
Stabilized Core Compression, psi	134	234	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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