



# FAA ALLOWABLE<sup>1</sup>

## NORBOND™ 221-0133-250

<b>Upper Skin Material Thickness</b>	One Ply 7781 Style E-Glass / Phenolic Resin 0.010 inch
<b>Lower Skin Material Thickness</b>	One Ply 7781 Style E-Glass / Phenolic Resin 0.010 inch
<b>Core Material</b>	Honeycomb - Fibrous Aramid/Phenolic Coated
<b>Density</b>	1/8 inch cell size; 3.0 lb/ft <sup>3</sup> ; Aramid Fiber Paper

<sup>2</sup> Panel Property	Test Results Value		Failure Mode	Tested IAW
Max Weight, lb/ft <sup>2</sup>	0.284		---	---
Typical Weight, lb/ft <sup>2</sup>	0.265		---	---
Thickness, inch	0.250 ± 0.010		---	ASTM C 366
<sup>3</sup> Warpage, inch	0.025 max		---	---
Long Beam Flexure	<b>A-Basis</b>	<b>B-Basis</b>	Upper Skin Compression	ASTM C 393 ASTM D 7249
	"L" Direction Skin Stress, psi	25,921      29,420		
	"L" Direction P/Y, lb/in	145          152		
	"W" Direction Skin Stress, psi	30,096      31,005		
	"W" Direction P/Y, lb/in	97.0        100.0		
Short Beam Shear			Core Shear	ASTM C 393
	"L" Direction Stress, psi	162          175		
	"W" Direction Stress, psi	93.5        100		
Stabilized Core Compression, psi	267	308	Core Crush	ASTM C 365
Climbing Drum Peel, in-lb/3-inch width	<b>Minimum</b>		Cohesive	ASTM D 1781
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1/ 8110-3 available on request.

2/ Panel meets FAR 25.853a, 60 second vertical burn requirements.

3/ Panel warpage is measured as a maximum deviation from a straight line in a 4 foot span.

**NOTICE:** All data and statements concerning this product are based upon FAA witnessed testing by NORDAM under controlled conditions. This information, therefore, may be considered as being indicative of representative properties and characteristics obtainable. **This data has been FAA DER witnessed.** We make no warranty, expressed or implied, concerning its use, nor do we accept responsibility for any misapplications of this product, or its use under any conditions.