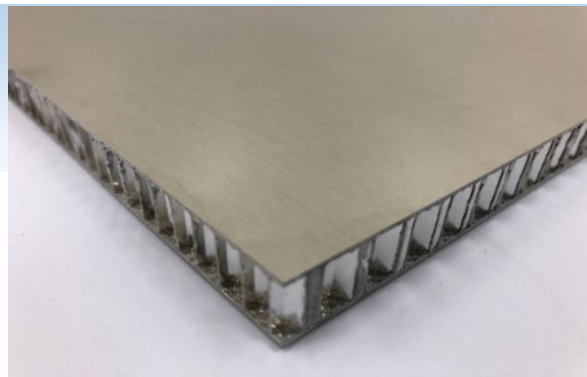


AeroRigid™ 291A

Composites Panel for Aircraft Interiors

The AeroRigid™291A is a sandwich panel made with aluminum facings and aluminum honeycomb core, designed for use in aircraft interiors.



Features

- High strength-to-weight ratio
- Good cost effectiveness
- Service temperature: up to 180°F

Applications

The AeroRigid™ 291A is designed for use in aircraft interior structural and nonstructural applications such as monuments, shelving, partitions, bulkheads and galleys.

Availability

Thickness: 0.125 to 1.000 inch
 Facing: 0.020 inch
 Width: Standard 48 inch (Max 60 inch)
 Length: Standard 96 inch (Max 144 inch)

Construction

Facing : 2024-T3 CLAD
 Honeycomb Core: 5052 AL 1/4" Cell, 3.4 lbs/ft³
 Adhesive: Epoxy

Typical Performance Properties

Part Number	Panel Thickness (inch)	Panel Wight (lbs/sf)	Long Beam Flexural Load at Failure (lbs)		Long Beam Flexural Facing Stress (psi)		Short Beam Core Shear (psi)		Climbing Drum Peel (in-lbs/in)	Stabilized Core Compression (psi)	FAA Allowable ×1
			L	W	L	W	L	W			
AR291A-A0125	0.125	0.68	63 ^{×2}	60 ^{×2}	45,041	43,028	346	271	15	549	Good
AR291A-A0250	0.250	0.72	143	138	46,674	44,926	293	181	15	395	Good
AR291A-A0375	0.375	0.75	224	210	47,199	44,355	266	162	15	372	Good
AR291A-A0500	0.500	0.79	305	296	47,449	46,077	247	151	15	365	Good
AR291A-A0750	0.750	0.86	474	439	48,184	44,829	172	137	15	364	Good
AR291A-A1000	1.000	0.92	627	576	48,367	45,347	130	128	15	362	Good

×1 Meet FAA allowable per FAR 25.853 Appendix F, Part I - 60 second vertical ; Part IV - Heat Release; Part V - Smoke Emission

×2 Maximum values without failure

Note: The above figures reflect typical values and should not be used in design.

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