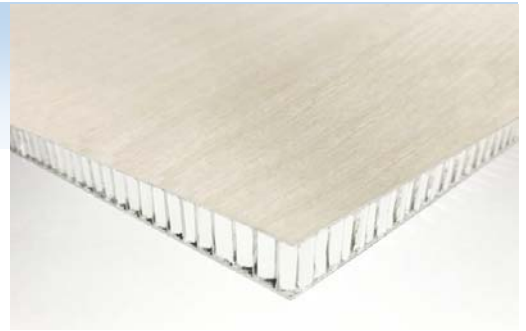


AeroRigid™ 291B

Aluminum Panel for Aircraft Interiors

The AeroRigid™291B is a sandwich panel made with aluminum facings and high density 5.7 lbs/ft³ 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™ 291B is designed for use in aircraft interior structural and nonstructural applications such as monuments, shelving, partitions, bulkheads and galleys.

Availability

Thickness: 0.125", 0.250", 0.375", 0.500", 0.750" and 1.000"
Facing: 0.020"
Width: Standard 48" (Maximum 60")
Length: Standard 96" (Maximum 144")

Construction

Facing : 2024-T3 CLAD
Honeycomb Core: 5052 AL 3/16" Cell, 5.7 lbs/ft³
(AMS-C-7438)

Typical Performance Properties

| Part Number | Panel Thickness inch | Panel Wight lbs/sf [Mean] | Long Beam Flexural Load at Failure lbs [Mean] | | Long Beam Flexural Facing Modulus ksi [Mean] | | Short Beam Core Shear psi [Mean] | | Climbing Drum Peel in-lbs/in [Mean] | Stabilized Core Compression psi [Mean] | FAA Allowables *1 |
|--------------|----------------------|---------------------------|---|------------------|--|------|----------------------------------|-----|-------------------------------------|--|-------------------|
| | | | L | W | L | W | L | W | | | |
| AR291B-A0125 | 0.125 | 0.67 | 63 ^{*2} | 61 ^{*2} | 1058 | 1035 | 435 | 411 | 9 | 1148 | Good |
| AR291B-A0250 | 0.250 | 0.73 | 158 | 162 | 1123 | 1086 | 453 | 362 | 10 | 944 | Good |
| AR291B-A0375 | 0.375 | 0.79 | 260 | 246 | 1116 | 1092 | 434 | 331 | 9 | 931 | Good |
| AR291B-A0500 | 0.500 | 0.85 | 346 | 330 | 1144 | 1116 | 415 | 323 | 7 | 901 | Good |
| AR291B-A0750 | 0.750 | 0.96 | 534 | 506 | 1149 | 1115 | 368 | 301 | 8 | 866 | Good |
| AR291B-A1000 | 1.000 | 1.08 | 740 | 687 | 1174 | 1127 | 292 | 283 | 7 | 849 | 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: Above figures reflect typical values and should not be used as design specifications.

CONTACT FOR MORE INFORMATION

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