

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)
 Adhesive: Epoxy

Typical Performance Properties

Part Number	Panel Thickness inch	Panel Weight 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			
AR291A-A0125	0.125	0.67	63 ^{x2}	61 ^{x2}	1058	1035	435	411	9	1148	Good
AR291A-A0250	0.250	0.73	158	162	1123	1086	453	362	10	944	Good
AR291A-A0375	0.375	0.79	260	246	1116	1092	434	331	9	931	Good
AR291A-A0500	0.500	0.85	346	330	1144	1116	415	323	7	901	Good
AR291A-A0750	0.750	0.96	534	506	1149	1115	368	301	8	866	Good
AR291A-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

SHOWA AIRCRAFT INDUSTRY CO., LTD.

Tokyo Sales Office
 600 Tanaka-cho, Akishima-shi, Tokyo 196-8522, Japan
 Phone: +81-42-541-8883
 Fax: +81-42-541-8899
 e-mail: honeycombsales196@showa-aircraft.co.jp

SHOWA AIRCRAFT USA INC.

8656 154th Ave. NE
 Redmond, Washington 98052, USA
 Phone: +1-425-202-7238