

AeroRigid™ 2223

Composites Panel for Aircraft Interiors

The AeroRigid™2223 is a sandwich panel made with facings of fiberglass cloth reinforced phenolic laminate and Nomex® honeycomb core (SAH), designed for use in aircraft interiors.

® Nomex is registered trademark of E.I. DuPont de Nemours, Wilmington, Delaware.
SAH: Showa Aramid Honeycomb



Features

- Low heat release
- Low smoke and toxicity generation
- Moisture and corrosion resistance
- Service temperature: up to 180°F

Applications

The AeroRigid™ 2223 is designed for use in aircraft cabin interior structures such as galleys, lavatories, bulkheads, partitions, storage compartment and crew rests.

Availability

Thickness: 0.125", 0.250", 0.375", 0.500", 0.625",
0.750" and 1.000"
Facing: 0.020"
Width: Standard 48" (Maximum 60")
Length: Standard 96" (Maximum 144")

Construction

Facing reinforcement: Woven fiberglass cloth
Facing resin system: Phenolic
Honeycomb Core: SAH 1/8-3.0
(AMS-C-3711)

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			
AR2223-A0125	0.125	0.46	20 *2	22 *2	3856	4012	244	150	13	472	Good
AR2223-A0250	0.250	0.49	92 *2	93	3883	4020	176	94	11	386	Good
AR2223-A0375	0.375	0.53	172	146	3911	4105	168	92	12	383	Good
AR2223-A0500	0.500	0.56	222	189	4345	4350	164	92	13	381	Good
AR2223-A0625	0.625	0.59	284	238	4022	4186	155	89	11	367	Good
AR2223-A0750	0.750	0.62	326	276	4108	4319	152	87	12	356	Good
AR2223-A1000	1.000	0.68	408	338	4064	4258	124	77	13	331	Good

*1 Meet FAA allowable per FAR 25.853 Appendix F, Part I - Vertical and Forty-five degree; 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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