



Gillfloor™ 4609 Panel

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Description

Gillfloor 4609 is a low smoke flooring panel made from unidirectional carbon reinforced phenolic facings bonded to aramid honeycomb core.

Applications

Designed for use as flooring in cabin compartments of commercial aircraft.

Features

- Facings are modified for better impact and covered with a thin fiberglass layer to prevent galvanic corrosion.
- Low smoke evolution in a fire.
- Very light weight and low deflection.
- Passes McDonnell Douglas rolling cart fatigue test (Type I).
- Service temperature range: to 180°F.

Specifications

- British Aerospace AVN 3-005.
- British Aerospace BAER 3231 Rev. 1 Grade L
- British Aerospace BAER 3231 Rev 1 Grade M
- FAR 25.853 - fire resistant.

Construction

		Grade M	Grade L
Adhesive:	Fire retardant modified phenolic	.014"	.014"
Core:	1/8" cell aramid honeycomb.	8 pcf	4 pcf
Facings:	Unidirectional carbon/phenolic	.04 psf	.04 psf

Availability

Thickness: Per customer specifications.

Size: Standard size is 48" x 144". Other sizes are available on request to up 72" x 168".



Standard Tolerances

Thickness:	+/- .01"
Length:	-0, +0.5"
Width:	-0, +0.5"
Warpage:	.025 in./ft., max/

Alternative Gill Products

Product Number	Difference
Gillfloor 4017T	S-2 glass [®] reinforced epoxy facings give a higher impact resistance and lower cost, but a higher smoke evolution.
Gillfab 4004	S-2 glass reinforced phenolic facings make the panel lower in cost but higher weight.
Gillfab 4009	Epoxy facings/epoxy adhesive.
Gillfab 4509	Phenolic facings/epoxy adhesive.
Gillfloor 4709	Epoxy facings/epoxy adhesive.

Properties of Gillfab 4609

PROPERTY	TEST METHOD	UNIT	TYPE I	TYPE II
		English / Metric	English / Metric	English / Metric
Weight	AVN 3-001, Appendix A1	lb/sq ft (kg/sq m)	0.521 (2.54)	0.410 (2.01)
Thickness	AVN 3-001, Appendix A2	inch (mm)	0.390 (9.91)	0.394 (10.01)
Peel Strength	AVN 3-001, Appendix A3	lb-in/in (Nm/25mm)	9.9 (1.119)	9.9 (1.119)
Ultimate bending moment	AVN 3-001, Appendix A4	lb-in/in (Nm/25mm)	245 (27.69)	233 (26.33)
Ultimate Shear Strength	AVN 3-001 Appendix A5	psi (MPa)	434 (2.99)	234 (1.61)
Indentation test, frame supported @ 270 lbs	AVN 3-001, Appendix A14	@ 270 lbs (1201 N) Ultimate load, lbs. (N)	No Damage 444 (1975)	No Damage 372 (1655)
Indentation test, fully supported	AVN 3-001, Appendix A13	@ 350 lbs (1557 N) Ultimate load, lbs. (N)	No Damage 390 (1745)	No Damage 397 (1766)
Flammability - 60 Second Self-Extinguishing Time Burn Length Drip Extinguishing Time	AVN 3-001, Appendix A6	Second inch (mm) second	11 2 (50.80) 0	7 (50.80) 0
N.B.S. Smoke Density Flaming, 4 min.	AVN 3-001, Appendix A7	D _s	25	22
OSU Heat Release (Typical)	AVP 8-022	Total, kw-min/m ² Peak, kw/m ²	49 40	50 41

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