



Gillfloor™ 4417A Panel

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Description

Gillfloor 4417A is a light weight aircraft flooring panel made from unidirectional fiberglass reinforced epoxy facings bonded to aramid honeycomb core.

Applications

Passenger compartment flooring designed for use in highly loaded areas such as lavatories, galleys and entries.

Features

- Fatigue and corrosion resistant.
- Very high impact facings.
- High strength-to-weight ratio.
- Service temperature range: to 180°F.

Specifications

- Qualified to Boeing BMS 4-17 Type VI.
- FAR 25.853 - fire resistant.

Construction

Facings:	.020"
Core:	10.0 pcf
Adhesives:	Modified Epoxy

Availability

Thickness:	0.39 to 0.41"
Length:	Per specification to 144", or to 168" on special order.
Width:	Per specification to 48", or to 72" on special order.



Standard Tolerances

Thickness: ± 0.01 "
Length and Width: +0.5", -.062"
Warpage: <.025"/ft. @ 0.4" thickness

Alternative Gill Products

Product Number	Difference
Gillfab 4017T	Qualified to McDonnell Douglas Drawing BZZ 7002. Qualified to British Aerospace MAT 003..
Gillfab 4417	Qualified to Boeing BMS 4-17, Ty I-V, IX.



Properties of Gillfloor 4417A

Type VI - Typical Values

Property	Test Method	Typical
Mechanical		
Long beam	ASTM C 393	
Load, lb.		407 (300)
Deflection, in.		565 (.60)
After humidity exposure:		
Load, lb.		283 (250)
Panel shear, lb.	ASTM C 393	1,042 (850)
Sandwich peel, in-lb	ASTM D 1781	36 (25)
After humidity exposure:		
Sandwich peel, in-lb		49 (30)
In-plane shear, lb/in	BMS 4-17	517 (400)
Insert shear, lb-in	BMS 4-17	2,132 (840)
Core compression, psi	ASTM C 365	2,597 (2,200)
Roller cart test, lb/wheel	BMS 4-17	158/198
Number of cycles		122,853/35,099* (120,000/35,000)
Physical		
Weight, psf, max.	BMS 4-17	.771 (.80)
Thickness, in.	BMS 4-17	.401
Impact strength, ft-lb	ASTM D 3029	151 (35)
Flammability	FAR 25, App. F, Part I	
60 second vertical		
Self-extinguishing time, sec.		6.6 (12)
Burn length, in.		1.8 (5)
Drip extinguishing time, sec.		0 (0)
45 degree		
Self-extinguishing time, sec.		3.3 (15)
Penetration		None
Glow time, sec.		0 (10)
* No failure		

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