



## Gillfab™ 4105C Panel

November 1999

### Description

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Gillfab 4105C is a high strength floor panel constructed of woven fiberglass reinforced epoxy facings bonded to Nomex® honeycomb core

### Applications

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Designed for use as main deck flooring in an A300B4 freighter aircraft conversion program

### Features

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- High impact, corrosion resistant facing.
- High strength-to-weight ratio.
- Service temperature: to 158°F.

### Specifications

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- Flight Structures Inc. FSI-PS-4012..
- FAR 25.853 - Flammability.

### Construction

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Adhesive: Epoxy, fire resistant.

Core: 6.0 pcf density, 3/16" cell Nomex® honeycomb.

Facings: Woven E-glass cloth/epoxy.

### Availability

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Thickness: 400" ± .010"

Length: Up to 168".

Width: Up to 60".



### Standard Tolerances

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Length:	+ 0.5", -.062"
Width:	+ 0.5", -.062"
Warpage:	In/linear ft $\leq$ .036"

### Alternative Gill Products

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Product Number	Difference
Gillfab 4105A	Similar construction except .375" thick. Qualified to Airbus Industrie TL53/5000/79, Ty 1.
Gillfab 4105B	Same as Gillfab 4105A except a sheet of aluminum foil is bonded to the bottom facing. Qualified to Airbus Industrie TL53/5000/79, Ty 2.
Gillfab 4123	Low smoke floor panel with woven fiberglass reinforced phenolic facings bonded to Nomex® honeycomb core. Designed for use as main deck cargo flooring - freighter and convertible for all A300 series Airbus aircraft. Qualified to Airbus Technical Specification 5360 M1M 000500, Issue 5 (MDC 2).



## Properties of Gillfab 4105C

Test	Units	Result	Requirement	Test Method
Weight	psf (kg/m <sup>2</sup> )	0.659 (3.22)	Report	
Thickness	inches (mm)	0.398 (10.11)	0.40 ± 0.01 (10.16 ± 0.254)	
Warpage	in/in. ft (mm/m)	0	0.036 (3.0)	
Flammability 60 Seconds Vertical Test				AI ABD 0031 7.1.1
Extinguishing Time, maximum	seconds	0	15	
Burn Length, maximum	inches (mm)	1.2 (30.5)	6 (152.4)	
Drip Extinguishing Time, maximum	seconds	0	3.0	
Distributed Load - Local Load (Surface Load) @ 300 psf (1.4369 N/cm <sup>2</sup> ) Load @ Failure	psf (da N/m <sup>2</sup> )	No Deformation 3,000 (14,365)	No Permanent Deformation 1,200 (5,750)	AI TL 53/5000/79 Chap. 14.1
3-Point Bending Test Bending Moment @ 1.57 in (39.9 mm) Deflection a) Upper face, unspliced core Ribbon Direction	lbs-in/in (N-m/in)	328.9 (37.2)	300 (33.9)	AI TL 53/5000/79 Chap. 14.4a
Long Beam Flexural, Ultimate Load Ribbon Direction Transverse Direction	lbs (N)	411.8 (1,831.9) 450.4 (2,003.6)	Report	ASTM C 393
Long Beam Deflection @ 100 lbs (444.8N) Load Ribbon Direction Transverse Direction	inches (mm)	0.648 (16.46) 0.620 (15.75)	Report	ASTM C 393
Flatwise Compressive Strength	psi (N/mm <sup>2</sup> )	1,104.6 (7.61)	600 (4.125)	ASTM C 365
C.D. Peel Strength, minimum Face Back	in-lbs/3 in Width (N-m/76mm)	47.7 (5.39) 39.3 (4.44)	22 (2.5)	ASTM D 1781
Insert Pull-Out Test (Insert No. SL5269AE-400) Installed per FSI Spec. PS-4001	lbs (N)	1,803 (8,020)	1,437 (6,400)	AI TL 53/5000/79 Chap. 14.6

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