

**Gillfab™ 5017 Panel**

October 2004

**Description**

Gillfab 5017 is a sandwich panel made with facings of fiberglass cloth reinforced epoxy laminate and aramid honeycomb core.

**Applications**

Used in commercial aircraft interiors and galley areas.

**Features**

- Lightweight, high strength construction.
- Good self-extinguishing characteristics.
- Good corrosion resistance.
- Service temperature range: -60F to 180F.

**Specifications**

- Lockheed LAC-C-28-1247.
- FAR 25.853, 60 second vertical flammability test.

**Construction**

Adhesive: Modified epoxy film.

Core: Aramid honeycomb, density per customer specifications.

Facings: Epoxy impregnated fiberglass cloth.

**Availability**

Thickness: As specified, .125" and up.

Size: Standard size is 48" x 144". Sizes up to 72" x 168" without splices in facings. Special sizes available on request.

Facings: Thickness starting at .01" in multiples of .005".

Core: 1/8" cell size. Density per customer specification.

**Standard Tolerances**

Thickness: +/- .010"

Length: -0, +0.5"

Width: -0, +0.5"

Warpage:  $<.004 L^2/t$  where L = length (ft.) and t = thickness (in.)



## Alternative Gill Products

Product Number	Difference
Gillfab 5071	Latest generation of light weight fiberglass reinforced/phenolic resin facings with low fire, smoke, and toxicity, high strength panels for aircraft interior applications, such as galley, lavatory, and closet walls. It meets all requirements of FAR 25.853.
Gillfab 5038	Unidirectional fiberglass facings, designed for floor panel applications.
Gillfab 4122A	Low smoke panel, with some sacrifice in strength (phenolic resin and adhesive).

### Properties of Gillfab 5017 Based on 0.48" Thick Panel - Typical Properties

PROPERTY	TEST METHOD	UNIT	VALUE
Weight	ASTM C29	lb/sq ft (kg/sq m)	0.392 (1.91)
Thickness	ASTM C366	inch (mm)	0.483 (12.3)
Sandwich Peel, L Direction	AMS-STD 401	in-lb(N-m)/3 in width	55 (6.2)
Sandwich Peel, 30 Day Water Soak	AMS-STD 401	in-lb(N-m)/3 in width	47 (5.3)
Long Beam Flexural Ultimate Load	AMS-STD 401	lb (N)	177 (787)
Facing Stress		ksi (MPa)	31.4 (216.6)
Deflection @ 100 lbs load		inch (mm)	1.021 (25.9)
Flatwise Compression	AMS-STD 401	lb/sq in (kPa)	363 (2,503)
Flatwise Tensile	AMS-STD 401	lb/sq in (kPa)	672 (4,633)
Impact Strength	ASTM D 3029	in-lb (N-m)	80 (9.0)
Flammability - 60 Second Self-Extinguishing Time	FAR Part 25, Appendix F, Part I	second	0
Burn Length		inch (mm)	2.2 (55.9)
Drip Time		second	0
Flammability - 45 Degree Self-Extinguishing Time	FAR Part 25, Appendix F, Part I	second	0
Afterglow		second	0
Penetration		----	None

M.C. Gill Corporation gives no warranties, expressed, implied or statutory, or otherwise, as to the description, quality, fitness, capacity, or any other matter, of the properties described. The data given represents minimum values to be expected. Through additional testing of each lot it is possible to verify that the product exceeds the tabulated values. It is recommended, however, that prospective users evaluate the materials to determine their suitability for the users' specific requirements. Values are given on the condition that the user assumes all risk and that responsibility for any loss or damage caused by or resulting from the use of such information is disclaimed by M.C. Gill Corporation.

M.C. Gill Corporation  
4056 Easy Street  
El Monte, CA 91731-1087 USA  
626-443-4022  
info@mcgillcorp.com

M.C. Gill Europe Ltd. - Insoleq  
23 Enterprise Road, Balloo Industrial Estate South  
Bangor Co-Down BT19 7TA, Northern Ireland  
+44 (0) 2891 470073 sales@insoleq.co.uk

[www.mcgillcorp.com](http://www.mcgillcorp.com)

© M.C. Gill Corporation. All rights reserved.

