



# Gillfab® 4117

## DESCRIPTION

Gillfab® 4117 is a sandwich panel made with facings of fiberglass cloth reinforced epoxy laminate and Gillcore® HD Nomex® honeycomb core.

## APPLICATIONS

The panel is designed for use in commercial aircraft nonstructural interiors and galley areas.

## FEATURES

- Lightweight, high strength construction
- Good self-extinguishing characteristics
- Good corrosion resistance
- Service temperature range: -60°F to 180°F (-51°C to 80°C)



## AVAILABILITY

Thickness, inch (mm)	0.125 (3.18)	0.500 (12.70)
	0.250 (6.35)	0.625 (15.88)
	0.344 (8.74)	0.720 (18.29)
	0.375 (9.53)	0.750 (19.05)
	0.400 (10.16)	1.00 (25.40)
Facing, face/back, inch (mm)	0.010/0.010 (0.254/0.254)	
	0.020/0.020 (0.508/0.508)	
	0.030/0.030 (0.762/0.762)	
Length, inch (mm)	Typical 96 (2,438), Maximum 144 (3,658)	
Width, inch (mm)	Typical 48 (1,219), Maximum 68 (1,727)	
Honeycomb	Gillcore® HD Nomex® light-density honeycomb	



## CONSTRUCTION

- Adhesive:** Epoxy film  
**Core:** Gillcore® HD honeycomb  
**Facings Reinforcement:** Fiberglass cloth  
**Facings Resin System:** Epoxy

## ALTERNATIVE GILL PRODUCTS

TGC Product No.	Difference
Gillfab® 5071	Panel made from Gillcore® HD core and fiberglass cloth reinforced with phenolic resin with low smoke generation. The panel has superior strength to weight ratio for aircraft interior applications.
Gillfab® 4122A	Panel made from Gillcore® HD core and fiberglass cloth reinforced with phenolic resin with low smoke generation. Good strength to weight ratio for aircraft interior application.

## SPECIFICATIONS

- Embraer MEP - 15-017 Type I, III, IV, V, VI, VII, VIII
- FAR 25.853, 60 second vertical flammability test



**HEALTH PRECAUTIONS**

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Safety Data Sheet (SDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. A SDS is available at <https://www.thegillcorp.com/msds.php>.

For industrial use only. Keep away from children. Additional information can be found at: [www.thegillcorp.com](http://www.thegillcorp.com). For sales and ordering information call 1-626-443-6094.

**PERFORMANCE PROPERTIES, TYPICAL**

The following tests are run in accordance with MEP15-017 specification requirements.

TGC Part Number		4117 IX	4117 XI	4117 XII	4117 XIII	4117 XIV
Panel Weight, psf (kg/m <sup>2</sup> )		0.537 (2.62)	0.454 (2.22)	0.819 (4.00)	0.649 (3.17)	0.718 (3.51)
Panel Thickness, inch (mm)		0.242 (6.15)	0.745 (18.92)	0.995 (25.27)	0.741 (18.82)	0.746 (18.95)
Skin Thickness, face/back, inch (mm)		0.020/0.020 (0.508/0.508)	0.010/0.010 (0.254/0.254)	0.010/0.010 (0.254/0.254)	0.020/0.020 (0.508/0.508)	0.020/0.020 (0.508/0.508)
Flatwise compression, psi (Mpa)		491 (3.39)	302 (2.08)	286 (1.97)	298 (2.05)	622 (4.29)
Plate Shear Strength, lbs (N)	Ribbon	278 (1,236)	164 (730)	144 (641)	161 (716)	229 (1,019)
	Transverse	135 (601)	78 (347)	71 (316)	79 (351)	133 (592)
Long Beam Bending, lbs (N)	Ribbon	339 (1,508)	253 (1,125)	341 (1,516)	556 (2,473)	574 (2,553)
	Transverse	186 (827)	281 (1,250)	349 (1,552)	348 (1,548)	586 (2,607)
Short Beam Flexure, lbs (N)	Ribbon	360 (1,601)	253 (1,125)	790 (3,514)	708 (3,149)	105 (467)
	Transverse	197 (876)	351 (1,561)	435 (1,935)	350 (1,557)	588 (2,616)
Drum Peel, in-lbs/3" width (N-m/76mm width)		76 (8.59)	76 (8.59)	56 (6.33)	54 (6.10)	49 (5.54)
Flammability	Meet FAR 25.853 App F Part I (a)(1)(i)					

TGC Part Number		4117 XV	4117 XVI	4117 XVII	4117 XVIII	4117 XIX
Panel Weight, psf (kg/m <sup>2</sup> )		0.582 (2.84)	0.341 (1.66)	0.574 (2.80)	0.599 (2.92)	0.419 (2.05)
Panel Thickness, inch (mm)		0.488 (12.40)	0.374 (9.50)	0.494 (12.55)	0.619 (15.72)	0.622 (15.80)
Skin Thickness, face/back, inch (mm)		0.020/0.020 (0.508/0.508)	0.010/0.010 (0.254/0.254)	0.020/0.020 (0.508/0.508)	0.020/0.020 (0.508/0.508)	0.010/0.010 (0.254/0.254)
Flatwise compression, psi (Mpa)		604 (4.18)	352 (2.43)	307 (2.12)	290 (2.00)	283 (1.95)
Plate Shear Strength, lbs (N)	Ribbon	235 (1,045)	227 (1,010)	175 (778)	170 (756)	177 (787)
	Transverse	124 (552)	104 (463)	82 (365)	81 (360)	81 (360)
Long Beam Bending, lbs (N)	Ribbon	316 (1,406)	115 (512)	355 (1,579)	466 (2,073)	251 (1,116)
	Transverse	353 (1,570)	114 (507)	249 (1,108)	288 (1,281)	233 (1,036)
Short Beam Flexure, lbs (N)	Ribbon	659 (2,931)	391 (1,739)	515 (2,291)	666 (2,962)	573 (2,549)
	Transverse	365 (1,624)	218 (970)	267 (1,188)	293 (1,303)	293 (1,303)
Drum Peel, in-lbs/3" width (N-m/76mm width)		54 (6.10)	54 (6.10)	42 (4.75)	54 (6.10)	53 (5.99)
Flammability	Meet FAR 25.853 App F Part I (a)(1)(i)					

Figures shown reflect typical values and should not be used as design specifications.

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