



PRODUCT DATA SHEET

Gillfab® 4037

DESCRIPTION

Gillfab® 4037 is a sandwich panel made with facings of fiberglass cloth reinforced epoxy laminate and Dura-Core® II aluminum honeycomb core.

APPLICATIONS

This panel is designed for use in business aircraft non-structural interiors.

FEATURES

- Lightweight, high strength construction
- Good self-extinguishing characteristics
- Good corrosion resistance

AVAILABILITY

Thickness ¹ , inch (mm)	0.270 (6.86)
	0.280 (7.11)
	0.390 (9.91)
	0.410 (10.41)
	0.520 (13.21)
	0.530 (13.46)
Facing,	0.010/0.010 (0.254/0.254)
Face/back, inch (mm)	0.020/0.020 (0.508/0.508)
Length, inch (mm)	Typical 96 (2,438), Maximum 144 (3,658)
Width, inch (mm)	Typical 48 (1,219), Maximum 68 (1,727)

¹Different panel thicknesses available upon request.



CONSTRUCTION

- Adhesive:** Modified epoxy
Core: Dura-Core® II aluminum honeycomb
Facings Reinforcement: 7581 fiberglass cloth
Facings Resin System: Epoxy

SPECIFICATIONS

- FAR Part 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. For sales and order information call 1-626-443-6094.



PERFORMANCE PROPERTIES, TYPICAL

Below values are typical of 4037 panels and should NOT be used as design values.

TGC Part Number		4037 Type I	4037 Type II	4037 Type III
Thickness, inch (mm)		0.270 (6.86)	0.390 (9.91)	0.520 (13.21)
Nominal Facing Thickness ¹ , inch (mm)		0.010/0.010 (0.254/0.254)		
Areal Weight, PSF (kg/m ²)		0.29 (1.42)	0.32 (1.56)	0.35 (1.71)
Long Beam Bending ² Ultimate Load, lbf (N)	Ribbon	215 (955)	130 (595)	195 (885)
	Transverse	190 (855)	115 (525)	190 (845)
Panel Shear ³ Ultimate Load, lbf (N)	Ribbon	345 (1540)	380 (1705)	525 (2340)
	Transverse	230 (1040)	300 (1330)	370 (1655)
Climbing Drum Peel ⁴ Torque, in-lbf ³ in width (N-m/76 mm width)	Ribbon	50 (5.65)		
	Transverse	60 (6.75)		
Flammability		Meets FAR 25.853 App. F Part I (a)(1)(i)		

- ¹ Each facing includes two layers of 7581 fiberglass cloth. Different facing thicknesses are available upon request.
- ² Long Beam Bending was tested per ASTM D7249 using 4-point bending configuration. For Type I, 12" length specimens were tested using 5" loading span and 10" support span. For Types II and III, 24" length specimens were tested using 10" loading span and 20" support span.
- ³ Panel Shear was tested per ASTM C393 using 3-point bending configuration. For Type I, 5" length specimens were tested using 3" support span. For Types II and III, 6" in length specimens were tested using 4" support span.
- ⁴ Climbing Drum Peel was tested per ASTM D1781.

TGC Part Number		4037 Type IV	4037 Type V	4037 Type VI
Thickness, inch (mm)		0.280 (7.11)	0.410 (10.41)	0.530 (13.46)
Nominal Facing Thickness ¹ , inch (mm)		0.020/0.020 (0.508/0.508)		
Areal Weight, PSF (kg/m ²)		0.49 (2.39)	0.52 (2.54)	0.55 (2.69)
Long Beam Bending ² Ultimate Load, lbf (N)	Ribbon	410 (1820)	300 (1330)	425 (1900)
	Transverse	250 (1110)	275 (1225)	380 (1690)
Panel Shear ³ Ultimate Load, lbf (N)	Ribbon	475 (2120)	550 (2445)	720 (3220)
	Transverse	275 (1225)	300 (1330)	400 (1775)
Climbing Drum Peel ⁴ Torque, in-lbf ³ in width (N-m/76 mm width)	Ribbon	20 (2.25)		
	Transverse	30 (3.35)		
Flammability		Meets FAR 25.853 App. F Part I (a)(1)(i)		

- ¹ Each facing includes two layers of 7581 fiberglass cloth. Different facing thicknesses are available upon request.
- ² Long Beam Bending was tested per ASTM D7249 using 4-point bending configuration. For Type IV, 12" length specimens were tested using 5" loading span and 10" support span. For Types V and VI, 24" length specimens were tested using 10" loading span and 20" support span.
- ³ Panel Shear was tested per ASTM C393 using 3-point bending configuration. For Type IV, 5" length specimens were tested using 3" support span. For Types V and VI, 6" in length specimens were tested using 4" support span.
- ⁴ Climbing Drum Peel was tested per ASTM D1781.

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