



PRODUCT DATA SHEET

Gillfab® 5040

DESCRIPTION

Gillfab® 5040 is a commercial grade sandwich panel made from aluminum alloy facings bonded to end grain balsa wood core.

APPLICATIONS

The panel is used in commercial aircraft for flooring, galley panels, cargo containers and bulkheads.

FEATURES

- Proven durability since 1962
- Economical high performance aircraft flooring
- Service temperature range: -50°F to 160°F (-46°C to 71°C)

AVAILABILITY

Thickness inch (mm)	0.125 (3.175)	0.535 (13.589)
	0.250 (6.35)	0.580 (14.732)
	0.280 (7.112)	0.610 (15.50)
	0.320 (8.128)	0.625 (15.875)
	0.325 (8.225)	0.673 (17.09)
	0.375 (9.525)	0.750 (19.05)
	0.400 (10.16)	1.00 (25.4)
	0.410 (10.414)	1.50 (38.1)
	0.437 (11.100)	3.125 (79.375)
	0.500 (12.7)	
Skin thickness, inch (mm)	0.011/0.011 (0.280/0.280)	0.032/0.020 (0.813/0.508)
	0.016/0.011 (0.406/0.280)	0.032/0.032 (0.813/0.813)
	0.020/0.011 (0.508/0.280)	0.040/0.020 (1.016/0.508)
	0.020/0.016 (0.508/0.406)	0.040/0.025 (1.016/0.635)
	0.020/0.020 (0.508/0.508)	0.040/0.040 (1.016/1.016)
	0.020/0.032 (0.508/0.813)	0.063/0.063 (1.60/1.60)
	0.025/0.020 (0.635/0.508)	0.080/0.080 (2.032/2.032)
	0.025/0.025 (0.635/0.635)	0.100/0.100 (2.54/2.54)
	0.032/0.016 (0.813/0.406)	
Width, inch (mm)	Typical 48 (1,219), Maximum 72 (1,829)	
Length, inch (mm)	Typical 144 (3,658), Maximum 144 (3,658)	



CONSTRUCTION

Adhesive:	Elastomer adhesive
Core:	End grain balsa wood
Facings:	2024-T3, 7075-T6 or 6061-T6 aluminum



SIMILAR GILL PRODUCTS

TGC Product No.	Difference
Gillfab® 5007	Similar construction with fiberglass facings.
Gillfab® 5041	Similar construction with light-density balsa core.
Gillfab® 5042	Similar construction with the additional option of epoxy film adhesive for bonding the facings to the core.
Gillfab® 5242	Similar construction with the addition of fiberglass facings for semi-decorative aircraft interior surfaces.

SPECIFICATIONS

- FAR 25.853 - fire resistance
- Embraer MEP-02-011

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 ordering information call 1-626-443-6094.

PERFORMANCE PROPERTIES, TYPICAL

The following tests are run in accordance with MEP 02-011, and tests were done on 5040 with 0.020"/0.011" 2024-T3 aluminum alloy facings.

TGC Part Number	5040-280	5040-400
Thickness, inch (mm)	0.280 (7.11)	0.400 (10.16)
Weight, psf (kg/m ²)	0.717 (3.50)	0.786 (3.838)
Long Beam Bending, lbs (N)	214 (952)	331 (1,472)
Deflection @ 100 lbs, inch (@ 445N, mm)	0.682(17.32)	0.310 (7.87)
Drum Peel, in-lbs/3" width (N/76mm width)	80 (356)	128 (569)
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.

All recommendations, statements, values and technical data herein are based on tests The Gill Corporation believes to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. Users shall rely on their own information and tests to determine suitability of the product for the intended use and assume all risks and liability resulting from their use of the product. The Gill Corporation's sole responsibility shall be to replace that portion of the product that proves to be defective. The Gill Corporation will not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements not contained in a written agreement signed by an officer of The Gill Corporation shall not be binding upon The Gill Corporation. Gillfab® is a registered trademark of The Gill Corporation.