



PRODUCT DATA SHEET

Gillfab® 5042/5042B

DESCRIPTION

Gillfab® 5042/5042B are aerospace Grade sandwich panels made from aluminum alloy facings bonded to end grain balsa wood core. The panel is designed for use as flooring, galley panels, cargo containers and bulkheads of commercial aircraft.

APPLICATIONS

The panel is designed for use as flooring, galley panels, cargo containers and bulkheads of commercial aircraft.

FEATURES

- Fire resistant
- Economical alternative of high performance aircraft flooring
- Surface treatment on aluminum facings are available for application that requires to be corrosion resistant
- Service temperature to 160°F (70°C)

AVAILABILITY

	5042	5042B
Thickness, inch (mm)	0.400 (10.16), 0.410 (10.41), 0.520 (13.21), 0.625(15.88), 0.740 (18.80)	0.390 (9.91), 0.400 (10.16)
Facings, Face/Back, inch (mm)	0.016/0.011 (0.406/0.279) 0.020/0.011 (0.508/0.279) 0.020/0.012 (0.508/0.305) 0.020/0.020 (0.508/0.508) 0.040/0.020 (1.016/0.508) 0.040/0.040 (1.016/1.016) 0.050/0.011 (1.270/0.279) 0.063/0.011 (1.600/0.279) 0.063/0.063 (1.600/1.600)	0.016/0.011 (0.406/0.279) 0.020/0.011 (0.508/0.279) 0.025/0.020 (0.635/0.508)
Width, inch (mm)	Typical 48 (1,219), Maximum 64 (1,626)	
Length, inch (mm)	Typical 96 (2,438), Maximum 144 (3,658)	



CONSTRUCTION

- Adhesive:** Epoxy
Reinforcement: High-density end grain balsa wood
Facings: 2024-T3 or 7075-T6 Aluminum (bare or clad)

ALTERNATIVE GILL PRODUCTS

TGC Product No.	Difference
Gillfab® 5040	Commercial grade panel made from balsa core/aluminum facings and elastomer adhesive for aircraft flooring.
Gillfab® 5242	Aerospace grade panel made from balsa core/clad aluminum and fiberglass facings for aircraft interior application.
Gillfab® 5242A	Similar to 5242 with bare aluminum and fiberglass facings.



SPECIFICATIONS

Gillfab® 5042

- Boeing BMS 4-10 Type 1, Gr A-G
- FAR 25.853 - fire resistance

Gillfab® 5042B

- McDonnell Douglas specifications S3932193, S3932195 and S4931863
- FAR 25.853 - fire resistance

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 BMS 4-10 and ASTM standard methods.

TGC Part Number		5042-410 ¹	5042B-400 ²
Weight, psf (kg/m ²)		0.81 (3.95)	0.80 (3.90)
Warpage, in/ft (mm/m)		0.019 (1.6)	N/A
Drum Peel, Face side, in-lbs/3" width (N-m/76mm width)	Longitudinal	63 (7.12) ³	49 (5.54) ⁴
	Transverse	70 (7.91) ³	N/A
Core Shear Strength, psi (kpa)		263 (1,813) ³	N/A
Impact Strength, in-lbs (N-m)		N/A	60 (6.78) ⁵
Panel Shear, psi (kpa)		N/A	447 (3,082) ⁶
Flatwise Compression, psi (kpa)		N/A	2,198 (15,155) ⁷
Flatwise Tensile, psi (kpa)		N/A	1,408 (9,708) ⁸
Long Beam Bending, lbs (N)		N/A	426 (1,895) ⁹
Defection @ 100 lbs, in (mm)		N/A	0.35 (9.0) ⁹
Flammability		Meet FAR 25.853 App F Part I (a)(1)(i)	

¹ With 0.020"/0.012" aluminum facings

² With 0.020"/0.011" aluminum facings

³ Tests are run in accordance with BMS 4-10

⁴ ASTM D-1781

⁵ ASTM D-3029

⁶ ASTM C-393

⁷ ASTM C-365

⁸ ASTM C-297-94

⁹ ASTM C-393

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.