



PRODUCT DATA SHEET

Gillfab® 4109

DESCRIPTION

Gillfab® 4109 is a low smoke flooring panel made from unidirectional carbon fiber reinforced phenolic facings bonded to Gillcore® HD meta-aramid honeycomb.

APPLICATIONS

Designed for use as flooring in cabin compartments of commercial aircraft.

FEATURES

- Low smoke evolution in a fire
- Very light weight and low deflection
- Optional thin layer of fiberglass to prevent galvanic corrosion
- Service temperature to 180°F (82°C)

AVAILABILITY

	Type 1/Grade M	Type 2/Grade L
Thickness, inch (mm)	0.250 (6.35) 0.390 (9.91) 0.400 (10.16)	0.250 (6.35) 0.390 (9.91) 0.400 (10.16)
Facing, face/back, inch (mm)	0.014/0.014 (0.356/0.356)	0.014/0.014 (0.356/0.356)
Length, inch (mm)	Typical 96 (2,438), Maximum 144 (3,658)	
Width, inch (mm)	Typical 48 (1,219), Maximum 60 (1,524)	
Honeycomb	Medium-density Gillcore® HD meta-aramid honeycomb	Light-density Gillcore® HD meta-aramid honeycomb



CONSTRUCTION

Adhesive:	Epoxy film
Core:	Light and medium-density Gillcore® HD honeycomb
Facings Reinforcement:	Unidirectional carbon fiber
Facings Resin System:	Phenolic

ALTERNATIVE GILL PRODUCTS

TGC Product No.	Difference
Gillfab® 4004	Panel made from Gillcore® HD core and unidirectional fiberglass reinforced with phenolic resin. An economical alternative of Gillfab 4109.
Gillfab® 4009	Panel made from Gillcore® HD core and unidirectional carbon fiber reinforced with epoxy resin. Higher mechanical strength and higher in smoke generation.
Gillfab® 4509	Panel made from Gillcore® HD core and unidirectional carbon fiber reinforced with phenolic resin. The panel uses phenolic film adhesive in place of epoxy adhesive.

SPECIFICATIONS

- McDonnell Douglas Dwg. No. 7954400, Ty. 1 and 2
- British Aerospace BAER 3231, Gr M & L
- FAR 25.853a - 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 DAC 7954400 specification requirements.

TGC Part Number	4109 Ty 1/Gr M	4109 Ty 2/GR L
Panel Weight, psf (kg/m ²)	0.513 (2.50)	0.416 (2.03)
Panel Thickness, inch (mm)	0.385 (9.78)	0.390 (9.91)
Impact Resistance, in-lbs (N-m)	41 (4.63)	N/A
Panel Compression, psi (Mpa)	2,027 (13.98)	N/A
Long Beam Bending, lbs (N)	553 (2,460)	432 (1,922)
Deflection at 100 lbs, inch (mm)	0.24 (6.10)	N/A
Drum Peel, in-lbs/3" width (N-m/76mm width)	43 (4.86)	44 (4.97)
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.

Updated: 10/19/23

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® and Gillcore® are registered trademarks of The Gill Corporation.