



## PRODUCT DATA SHEET

# Gillfab® 4009

### DESCRIPTION

Gillfab® 4009 is a light weight and highly strength sandwich panels made from uni-directional carbon fiber reinforced epoxy facings bonded to Gillcore® HD honeycomb.

### APPLICATIONS

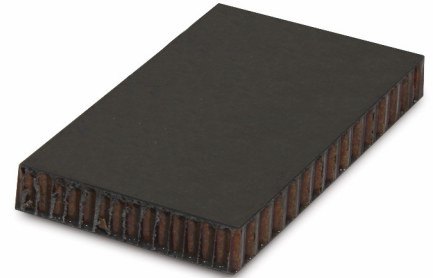
The panel is designed for use as medium duty structural panels in aircraft, where light weight and rigidity are primary considerations, such as underseats, galleys, flooring, and bulkheads.

### FEATURES

- Light weight and high rigidity
- Glass fiber overlay can be added to prevent galvanic corrosion
- Service temperature up to 160°F (71°C)

### AVAILABILITY

Thickness, inch (mm)	0.400 (10)
Length and Width, inch (mm)	Typical 48 x 120 (1,219 x 3,048) Maximum 65 x 144 (1,651 x 3,658)
Facing thickness, face/back, inch, (mm)	Typical 0.010/0.010 (0.254/0.254), also available in 0.015/0.015 (0.381/0.381), 0.020/0.020 (0.508/0.508) and 0.035/0.035 (0.890/0.890)



### CONSTRUCTION

- Adhesive:** Epoxy  
**Core:** Nomex®  
**Facings Reinforcement:** Unidirectional carbon fiber  
**Facings Resin System:** Epoxy

### SPECIFICATIONS

- Qualified to Embraer specification MEP 15-030
- FAR 25.853 and 25.855: 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](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 Embraer MEP 15-030, based on based on Gillfab® 4009 with 0.010"/0.010" (0.254 mm/0.254 mm) facings.

TGC Part Number	4009-400
Weight, psf (kg/m <sup>2</sup> )	0.39 (1.90)
Climbing Drum Peel, Face/Bottom, in-lbs/3" width (N/76mm width)	41/41 (182/182)
Long Beam Flexure Strength, L-direction, lbf (N)	282 (1,253)
Deflection @ 100 lbs, inch (@445N, mm)	0.412 (10.5)
Facing stress, ksi (Mpa)	59 (410)
Long Beam Flexure Strength, W-direction, lbf (N)	272 (1,212)
Deflection @ 100 lbs, inch (@445N, mm)	0.398 (10.1)
Facing stress, ksi (Mpa)	58 (399)
Short Beam flexure Strength, L-direction, lbf (N)	580 (2,581)
Core Shear Stress, psi (Mpa)	245 (1.69)
Short Beam flexure Strength, W-direction, lbf (N)	325 (1,443)
Core Shear Stress, psi (Mpa)	138 (0.95)
Flatwise Compression, psi (Mpa)	625 (4.31)
Flammability	Meet requirements of FAR 25.853 Appendix F Part 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.