



PRODUCT DATA SHEET

Gillfloor® 4518

DESCRIPTION

Gillfloor® 4518 is a light weight aircraft flooring panel made from unidirectional and woven fiberglass reinforced modified epoxy facings bonded to Gillcore® para-aramid honeycomb core.

APPLICATIONS

Versatile aircraft flooring panels suitable for passenger compartment underseat, aisles and cargo area.

FEATURES

- Fatigue and corrosion resistant
- High impact strength
- High strength-to-weight ratio
- Low smoke generation
- Service temperature range: to 180°F (82°C)

AVAILABILITY

	4518 Ty X	4518 Ty XI
Thickness, inch (mm)	0.400 (10)	
Facing, face/back inch (mm)	0.016/0.011 (0.406/0.280)	
Length and width, inch (mm)	Typical 48 x 144 (1,219 x 3,658)	
Honeycomb	Gillcore® HK low-density	Gillcore® HK medium-density



CONSTRUCTION

- Adhesive:** Epoxy
Core: Para-aramid
Facings Reinforcement: Unidirectional and woven glass fiber
Facings Resin System: Epoxy

ALTERNATIVE GILLFLOOR® PRODUCTS

TGC Product No.	Application	Alternative Gill Product
Gillfloor® 4518 Ty X	Cargo area	Gillfloor® 4417 Ty I/ epoxy fiberglass facings bonded to low-density Gillcore® HD meta-aramid core Gillfloor® 4709 Ty III/ epoxy graphite facings bonded to low-density Gillcore® HD meta-aramid core Gillfloor® 4809 Ty VI/ epoxy graphite facings bonded to low-density Gillcore® HK para-aramid core Gillfloor® 5424 Ty I/ epoxy fiberglass facings bonded to aluminum core
Gillfloor® 4518 Ty XI	Cargo area	Gillfloor® 4417 Ty II/ epoxy fiberglass facings bonded to medium-density Gillcore® HD meta-aramid core Gillfloor® 4709 Ty II/ epoxy graphite facings bonded to medium-density Gillcore® HD meta-aramid core Gillfloor® 4809 Ty VII/ epoxy graphite facings bonded to medium-density Gillcore® HK para-aramid core Gillfloor® 5424 Ty II/ epoxy fiberglass facings bonded to aluminum core



SPECIFICATIONS

- Boeing Specification BMS 4-17: Types X & XI
- FAR 25.853 - fire resistant

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 4-17 specification requirements.

TGC Part Number	4518 Ty X	4518 Ty XI
Weight, psf (kg/m ²)	0.46 (2.25)	0.55 (2.69)
Long Beam Bending, lbs (N)	310 (1,380)	328 (1,460)
Deflection @ 100 lb, inch (@ 445N, mm)	0.80 (20)	0.78 (20)
Panel Shear, lbs (N)	541 (2,406)	900 (4,000)
Drum Peel, in-lbs/3" width (N/76mm width)	29 (130)	34 (150)
Core Compression, psi (N/mm ²)	991 (6.83)	2,180 (15.03)
In-Plane Shear, lbs/in (N/mm)	364 (64)	339 (60)
Insert Shear, lb (N)	1,372 (6,103)	1,465 (6,517)
Impact Strength, in-lbs (Nm)	64 (7.23)	62 (7.00)
Warpage, in/ft (mm/m)	<0.08 (<0.001)	<0.08 (<0.001)
Roller Cart, cycles, lb/wheel (N/wheel)	No depression at: 80k @98 (436)	No depression at: 120k @ 120 (534), 35k @ 158 (700)
Flammability	Meets FAR 25.853 & 855 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. Gillfloor® and Gillcore® are registered trademarks of The Gill Corporation.