



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® Kevlar® 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:** Kevlar®  
**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 Nomex® core Gillfloor® 4709 Ty III/ epoxy graphite facings bonded to low-density Gillcore® HD Nomex® core Gillfloor® 4809 Ty VI/ epoxy graphite facings bonded to low-density Gillcore® HK Kevlar® 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 Nomex® core Gillfloor® 4709 Ty II/ epoxy graphite facings bonded to medium-density Gillcore® HD Nomex® core Gillfloor® 4809 Ty VII/ epoxy graphite facings bonded to medium-density Gillcore® HK Kevlar® 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](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 BMS 4-17 specification requirements.

TGC Part Number	4518 Ty X	4518 Ty XI
Weight, psf (kg/m <sup>2</sup> )	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 <sup>2</sup> )	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.

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