



PRODUCT DATA SHEET

Gillfloor® 4417/4417A

DESCRIPTION

Gillfloor® 4417/4417A is a high strength floor panel made from unidirectional fiberglass reinforced epoxy facings bonded to meta-aramid honeycomb core.

APPLICATIONS

Versatile flooring panels suitable for different areas in aircraft. 4417 Ty I is for use in low traffic and underseat areas, Ty II is for use in aisles and entries, Ty III is for use in galleys or other high loaded areas, Ty IV is for use in cargo area, Ty V & 4417A Ty VI are for use in galleys and Ty IX is for use in general heavy duty areas.

FEATURES

- Fatigue and corrosion resistant
- Corrosion and moisture resistant
- High impact strength
- High strength-to-weight ratio
- Low smoke generation



AVAILABILITY

	4417 Ty I	4417 Ty II	4417 Ty III	4417 Ty IV	4417 Ty V	4417A Ty VI	4417 Ty IX
Thickness, inch (mm)	0.400 (10)	0.400 (10)	0.400 (10)	0.665 (17)	0.400 (10)	0.400 (10)	0.400 (10)
Facing, Face/back, inch (mm)	0.015/0.015 (0.381/0.381)	0.015/0.015 (0.381/0.381)	0.022/0.022 (0.559/0.559)	0.015/0.015 (0.381/0.381)	0.030/0.030 (0.762/0.762)	0.020/0.020 (0.508/0.508)	0.030/0.030 (0.762/0.762)
Length and width, inch (mm)	Typical 48x144 (1,219 x 3,658)						
Honeycomb	Gillcore® HD low-density	Gillcore® HD medium-density	Gillcore® HD medium-density	Gillcore® HD low-density	Gillcore® HD high-density	Gillcore® HD high-density	Gillcore® HD high-density

CONSTRUCTION

- Adhesive:** Epoxy
Core: Meta-aramid
Facings Reinforcement: Unidirectional glass fiber
Facings Resin System: Epoxy

SPECIFICATIONS

- Boeing BMS 4-17, Ty I - IX



ALTERNATIVE GILLFLOOR® 4417 PRODUCTS

TGC Product No.	Application	Alternative Gill Product
Gillfloor® 4417 Ty I	Low traffic area, underseat	Gillfloor® 4518 Ty X/ epoxy fiberglass facings bonded to low-density Gillcore® HK para-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® 4417 Ty II	Aisles & entries	Gillfloor® 4518 Ty XI/ epoxy facings bonded to low-density Gillcore® HK para-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.
Gillfloor® 4417 Ty III	High traffic area, galleys	5424 Ty III/ epoxy fiberglass facings bonded to aluminum core with heavier facings.
Gillfloor® 4417 Ty IV	Cargo	N/A
Gillfloor® 4417 Ty V	High traffic area, galleys	4809 Ty IX/ epoxy graphite facings bonded to high-density Gillcore® HK para-aramid core.
Gillfloor® 4417A Ty VI	High traffic area, galleys	4809 Ty IX/ epoxy graphite facings bonded to high-density Gillcore® HK para-aramid core.
Gillfloor® 4417 Ty IX	General heavy duty	4809 Ty VIII/ epoxy graphite facings bonded to medium-density Gillcore® HK para-aramid core.

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	4417 Ty I	4417 Ty II	4417 Ty III	4417 Ty IV	4417 Ty V	4417A Ty VI	4417 Ty IX
Weight, psf (kg/m ²)	0.51 (2.49)	0.63 (3.07)	0.75 (3.66)	0.62 (3.03)	1.02 (4.98)	0.79 (3.86)	1.06 (5.17)
Long Beam Bending, lbs (N)	271 (1,206)	288 (1,282)	388 (1,727)	460 (2,047)	698 (3,106)	386 (1,718)	787 (3,502)
Deflection @ 100 lbs, inch (@ 445N, mm)	0.81 (20)	0.74 (19)	0.57 (14)	0.27 (7)	0.38 (10)	0.57 (14)	0.34 (9)
Panel shear, lbs (N)	795 (3,536)	1,123 (4,995)	1,400 (6,227)	1,194 (5,311)	2,175 (9,674)	1,544 (6,868)	1,850 (8,229)
Drum Peel, in-lbs/3" width (N/76mm width)	40 (178)	40 (178)	42 (187)	42 (187)	34 (151)	40 (178)	49 (218)
Core Compression, psi (N/mm ²)	812 (6)	2,080 (14)	2,504 (17)	846 (6)	3,157 (22)	2,786 (19)	3,845 (27)
In-Plane Shear, lbs/in (N/mm)	385 (67)	430 (75)	545 (95)	446 (78)	944 (165)	642 (112)	895 (157)
Impact, in-lbs (Nm)	55 (6.2)	47 (5.3)	50 (5.7)	46 (5.2)	59 (6.7)	60 (6.8)	140 (15.8)
Warpage, in/ft	<0.025 (<0.0003)	<0.025 (<0.0003)	<0.025 (<0.0003)	<0.025 (<0.0003)	<0.025 (<0.0003)	<0.025 (<0.0003)	<0.025 (<0.0003)
Roller Cart, cycles, lb/wheel (N/wheel)	No depression at: 80k, 98 (436)	No depression at: 120k, 120-534 35k, 158 (700)	No depression at: 120k, 120 (534) 35k, 158 (700)	No depression at: 80k, 98 (436)	No depression at: 125k, 168 (747) 35k, 198 (881)	No depression at: 120k, 158 (700) 35k, 198 (881)	No depression at: 125k, 168 (747) 35k, 198 (881)
Flammability	Meets FAR 25.853 & 855 Appendix F Part I						

Figures shown reflect typical values and should not be used as design specifications.

Updated: 01/06/21

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.