



PRODUCT DATA SHEET

Gillfloor® 5424

DESCRIPTION

Gillfloor® 5424 is a high strength flooring panel made from unidirectional fiberglass reinforced epoxy facings bonded to aluminum honeycomb core. This versatile flooring panel is suitable for passenger and cargo compartments.

APPLICATIONS

Versatile flooring panel suitable for passenger cargo compartment. 5424 Type I is used in low traffic areas such as underseat. Type II is used in high traffic areas such as aisles and entries. Type III, similar to Type II with thicker facings, is used in high traffic and other heavy duty areas such as aisles, galleys or other high loaded areas.

FEATURES

- Fatigue and corrosion resistant
- High impact strength
- High strength-to-weight ratio
- Aluminum honeycomb is an economical alternative to aramid honeycomb
- Service temperature range: -90°F (-68°C) to 180°F (82°C)

AVAILABILITY

	5424 Ty I	5424 Ty II	5424 Ty III
Thickness, inch (mm)	0.400 (10)		
Facing, face/back inch (mm)	0.015/0.015 (0.381/0.381)	0.018/0.018 (0.457/0.457)	0.022/0.022 (0.559/0.559)
Length and width, inch (mm)	Typical 48 x 144 (1,219 x 3,658)		
Honeycomb	5052 aluminum low-density	5052 aluminum medium-density	5052 aluminum medium-density



CONSTRUCTION

- Adhesive:** Epoxy
Core: 5052 alloy aluminium honeycomb
Facings Reinforcement: Unidirectional fiberglass
Facings Resin System: Epoxy

SPECIFICATIONS

- Boeing BMS 4-23, Ty I, II, III



ALTERNATIVE GILLFLOOR® 5424 PRODUCTS

TGC Product No.	Application	Alternative Gill Product
Gillfloor® 5424 Type I	Low traffic area, underseat	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® 4417 Ty I/ epoxy fiberglass facings bonded to low-density Gillcore® HD meta-aramid core Gillfloor® 4518 Ty X/ epoxy fiberglass facings bonded to low-density Gillcore® HK para-aramid core
Gillfloor® 5424 Ty II	Aisles & entries	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® 4417 Ty II/ epoxy fiberglass facings w bonded to medium-density Gillcore® HD meta-aramid® core Gillfloor® 4518 Ty XI/ epoxy fiberglass facings bonded to low-density Gillcore® HK para-aramid core
Gillfloor® 5424 Ty III	High traffic area, galleys	Gillfloor® 4417 Ty III/ thicker epoxy fiberglass facings bonded to medium-density Gillcore® HD meta-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 4-23 specification requirements.

TGC Part Number	5424 Ty I	5424 Ty II	5424 Ty III
Weight, psf (kg/m ²)	0.53 (2.59)	0.62 (3.03)	0.72 (3.51)
Long Beam Bending, lbs (N)	303 (1,348)	328 (1,460)	445 (1,980)
Deflection @ 100 lbs, inch (@ 445N, mm)	0.73 (19)	0.70 (18)	0.28 (7)
Panel shear, lbs (N)	1,079 (4,800)	1,228 (5,462)	1,566 (6,966)
Drum Peel, in-lb/3" width (N/76mm width)	48 (214)	48 (214)	45 (200)
Core Compression, psi (N/mm ²)	1,037 (7)	1,625 (11)	1,633 (11)
Impact Strength, in-lbs (Nm)	111 (12.54)	107 (12.09)	126 (14.2)
Insert Shear, lbs (N)*	1,491 (6,632)	1,736 (7,722)	1,540 (6,850)
In-Plane Shear, lbs/in (N/mm)	426 (75)	462 (81)	507 (87)
Warpage, in/ft	<0.025 (2.1)	<0.025 (2.1)	<0.025 (2.1)
Roller Cart, cycles, lb/wheel (N/wheel)	No depression at: 80k, 158 (700)	No depression at: 120k, 250 (1,100)	No depression at: 120k, 250 (1,100)
Flammability	Meets FAR 25.853 & 855 Appendix F Part I		

*5L5107 Figures shown reflect typical values and should not be used as design specifications.

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