



PRODUCT DATA SHEET

Gillfab® 4523

DESCRIPTION

Gillfab® 4523 is a high-strength sandwich panel composed of woven cloth and unidirectional fiberglass reinforced phenolic skins bonded to a Gillcore® HD Nomex® aramid honeycomb. Advanced design offers exceptional mechanical properties in accordance with Airbus BCC3 requirements.

APPLICATIONS

Floor panels for bulk cargo compartments in Airbus A318/A319/A320/A321/A330/A340/A300/A310/A300-600.

FEATURES

- Unbalanced facing construction provides exceptional durability needed on the panel surface without the added weight and cost of a symmetrical design
- Superior impact strength and abrasion resistance
- Corrosion resistant
- Low smoke and toxicity emission
- Self-extinguishing and resistant to flame penetration in accordance with FAR Part 25 Appendix F
- Service temperature: to 180°F (82°C)

AVAILABILITY

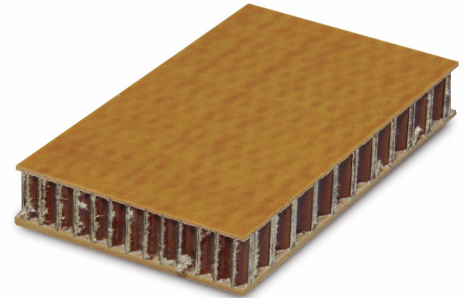
Thickness, inch (mm)	0.496 (12.6)
Length, inch (mm)	Maximum of 144 (3,658)
Width, inch (mm)	Maximum of 60 (1,524)

CONSTRUCTION

- Adhesive:** Epoxy film
- Core:** Gillcore® HD Nomex® aramid honeycomb
- Reinforcement:** Unidirectional S2-glass fiber and woven fiberglass cloth
- Resin System:** Phenolic
- Facing:** Top: 0.060 inch (1.524 mm); Bottom: 0.025 inch (0.635 mm)

SPECIFICATIONS

- Qualified to AI Technical Specification No. 5360 M1M 000500, Issue 6 (BCC3)
- FAR 25.853 - fire resistance
- ABD 0031 - Smoke density, toxicity, flammability, and burn through





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 5360 M1M0005006 TY BCC3 (Airbus) specification test methods.

TGC Part Number	4523
Weight, psf (kg/m ²)	1.19 (5.81)
Thickness, in (mm)	0.50 (12.6)
Warpage, in/ft (mm/m)	0 (0)
Impact strength, ft-lbs (N-m)	21.0 (28.5)
L.B. flexural, ultimate x/-ks, lbs (N)	966 (4297)
Deflection at 100 lbs (445N), in (mm)	0.23 (5.8)
Drum peel, lbs/3" width (N/76-mm width)	96.8 (431)
Flammability - 60 seconds vertical	
Self-extinguishing time, seconds	4
Burn length, in (mm)	0.890 (22.6)
Drip extinguish time, seconds	0
Smoke density	
Upper side, DM	60
Lower side, DM	43

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® and Gillcore® are registered trademarks of The Gill Corporation.