

**Gillfab™ 4523 Panel****March 2008****Description**

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Gillfab 4523 is a low smoke sandwich panel with facings of modified phenolic resin reinforced with a combination of woven and unidirectional glass fibers and Nomex® honeycomb core.

**Applications**

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Flooring for the bulk loading cargo compartments in all Airbus Industrie commercial aircraft models.

**Features**

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- Very high impact resistance.
- Low smoke and toxicity.
- Burn through resistance.
- Service temperature: to 180°F.

**Specifications**

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- 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.

**Construction**

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Adhesive:	Modified epoxy.
Core:	Aramid honeycomb (Nomex).
Facings:	Phenolic resin, glass fiber reinforced plastic.

**Availability**

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Thickness:	0.496"
Length and Width:	Per customer specification, up to 60"x144"
Facing thickness:	Top: 0.060", Bottom: 0.025"
Core:	9.0 pcf density, 5/32" cell size



### Standard Tolerances

Thickness:	+0.02", -0.01"
Length and Width:	0.072"

### Alternative Gill Products

Product Number	Difference
Gillfab 4223	Panel designation for the second generation of panels qualified for use in bulk cargo flooring for Airbus aircraft. Thinner top facing and less weight but lower impact resistance.

### Properties of Gillfab 4523

Typical Property Values English (Metric)  
Specification: AL 5360 M1M 000500, Issue 6 BCC3

Property	Test Method	Typical
Weight, psf (kg/m <sup>2</sup> )	ASTM C 29	1.19 (5.8)
Long Beam Bending Load, lb (N)	ASTM C 393	
Ribbon (L) Direction at 25°C		400 (1780)
Ribbon (L) Direction at 40°C/Wet <sup>1</sup>		390 (1735)
Long Beam Deflection @ 100 lb (445N), in (mm)		
Ribbon (L) Direction at 25°C		0.25 (6.5)
Ribbon (L) Direction at 40°C/Wet <sup>1</sup>		0.24 (6.0)
Impact Strength, ft-lbs, (N-m)	ASTM D 5420	24 (32)
Meets flammability, smoke, and toxicity requirements of ABD 0031		

#### NOTES:

<sup>1</sup>Wet means exposure to 70% humidity at 70°C for a period of 30 days

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M.C. Gill Corp.  
4056 Easy Street  
El Monte, CA 91731-1087 USA  
626-443-4022 info@mcgillcorp.com

M.C. Gill Europe Ltd. - Insoleq  
23 Enterprise Road, Balloo Industrial Estate South  
Bangor Co-Down BT19 7TA, Northern Ireland  
+44 (0) 2891 470073 sales@mcgillcorp.com

[www.mcgillcorp.com](http://www.mcgillcorp.com)

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