



Gillfab™ 4223 Panel

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Description

Gillfab 4223 is a low smoke sandwich panel with facings of phenolic resin reinforced with woven glass cloth and Nomex® honeycomb core.

Applications

Flooring panel for bulk loading cargo compartments in Airbus Industrie A300/A310/A300-600, A319/A320/A321 and A330/A340 aircraft.

Features

- High impact, low smoke and toxicity.
- Good burn through resistance.
- Service temperature: to 180°F.

Specifications

- AI Technical Specification No. 5360 M1M 000500, Issue 3 (BCC2).
- FAR 25.853 - fire resistant.
- ABD 0031 - Smoke density, toxicity, flammability, and burn through.

Construction

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

Availability

Thickness:	0.496"
Length and Width:	Per customer specification, up to 60"x144"
Facing thickness:	Top: 0.050", Bottom: 0.020"
Core:	9.0 pcf density, 3/16" cell size



Standard Tolerances

Thickness:	+0.02", -0.01"
Length and Width:	-0, +0.5"
Warpage:	0.03937"

Alternative Gill Products

Product Number	Difference
Gillfab 4323	Panel designation originally qualified for use in bulk cargo flooring for Airbus aircraft. Thinner top facing and lower density core.

Properties of Gillfab 4223

Based on a panel 0.496" thick with 0.045"/0.020" phenolic facings and a 9 pcf 0.431" thick core
Typical Average and Specification Property Values English (Metric)
Specification: AI 5360 M1M 000500, Issue 3 (BCC2)

Property	Test Method	Typical
Weight, psf (kg/m ²)	ASTM C 29	0.973 (4.75)
Long Beam Flexural Strength, lbs (N)	ASTM C 393	
Ultimate Load		
Ribbon (L) Direction		
RT		788 (3,505)
Long Beam Deflection @		
445N (100 lbs), in (mm)		
Ribbon (L) Direction		
RT		
HA + 40°C		0.277 (7.04)
Impact Strength, ft-lbs, (N-m)	Chapter 9.8* ASTM D 3029	11.0 (15)
Meets flammability, smoke, and toxicity requirements of ABD 0031. *Chapter numbers in "Test Method" column refer to section in Airbus specification. NOTE: "Reported" means no Specification requirement for that property.		

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