



Gillfab™ 4323 Panel

March 1997

Description

Gillfab 4323 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 cargo loading compartment for Airbus Industrie A300/A300-600, A310, A320, A321, A330, and A340 aircraft.

Features

- All phenolic resin - low smoke emission in a fire.
- High impact, corrosion resistant facings.
- Light weight.
- Service temperature: to 180°F.
- Good burn through resistance.

Specifications

- Airbus Industrie Technical Specification No. 5360 M1B 000100.
- United Airlines SHE 2907.
- ATS 1000.001 - Smoke density, toxicity, flammability, heat release, and burn through

Construction

Adhesive: Modified epoxy.

Core: Aramid honeycomb (Nomex)..

Facings: Phenolic resin, glass fiber reinforced plastic.

Availability

Thickness: .496" ñ .020"

Length and Width: Per customer specification.

Facing thickness: Top: .030", Bottom: .025"

Core: 6.0 pcf density, 3/16" cell size



Standard Tolerances

| | |
|-------------------|--------------------------------------|
| Thickness: | ±.020" |
| Length and Width: | 60" x 144" (one splice core maximum) |
| Warpage: | .036 in/ft. |

Alternative Gill Products

| Product Number | Difference |
|-----------------------|--|
| Gillfab 4322 | Thinner facings and core. Used as flooring in container cargo compartment in the A320 and A321 aircraft. |



Properties of Gillfab 4323

Based on a panel 0.496" thick with 0.030"/0.020
Phenolic facings and 6 pcf 0.446" thick core.

| Property | Test Method | Unit | Value |
|---|------------------------------|----------------------|--------------------------|
| Weight | ASTM C29 | lb/sq ft (kg/sqm) | 0.756 (3.70) |
| Thickness | ASTM C366 | inch (mm) | 0.496 (12.6) |
| Distributed Surface Load Permanent Set | DA/MBB/AI 5360 M1B 000100 | lb (N) | None @ 2,434 (10,826) |
| Ultimate Load | | lb (N) | 5,567 (24,763) |
| Impact Strength | DA/MBB/AI 5360 M1B 000100 | ft-lb (N-m) | 18 (24.5) |
| Insert Pull Out After Aging | DA/MBB/AI 5360 M1B 000100 | lb (N) | 1,679 (7,469) |
| Flammability - vertical Extinguishing Time | FAR 25.853a | second | 3 |
| Burn Length | | inch (mm) | 1.0 (25.4) |
| Flaming Drops Time | | second | 0 |
| Flammability - 45 Degree Extinguishing Time | FAR 25.855 | second | 0 |
| Afterglow | | second | 0 |
| Penetration | | --- | None |
| Smoke Density Note 1 Non-Flaming - 4 minute | FAR 25.855 | D _s | 7 |
| Flaming - 4 minute | | D _s | 83 |
| OSU Heat Release Note 2 Peak HHR | FAR 25.853 | kw/m ² | 43.6 |
| Total HHR | | kw-in/m ² | 37.0 |
| Oil Burner Note 2 | FAR 25.855 | --- | Pass |
| Note 1 - Test performed by U. S. Testing in accordance with FAR 25.855 | | | |
| Note 2 - Test performed by U. S. Testing in accordance to the procedure outlined in Appendix F, Part III of FAR 25.855, "Oil Burner - Burn Through Resistance". | | | |

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