

**Gillfab™ 41 22A Panel**

December 2003

Description

Gillfab 4122A is a light weight sandwich panel constructed to provide minimum smoke emission in a fire.

Applications

In places where smoke emission in a fire would be very dangerous, such as interiors of enclosed areas.

Typical uses are joiner panels on Navy and other large ships, wall panels in subway trains, and aircraft bulkheads, galley and ceiling panels.

Features

- All phenolic resin - minimal smoke emission. Good burn-through resistance and high flash point in a fire.
- Decorative laminates can be bonded to facing. Designed for Navy applications. Flat, corrosion resistant panels.

Specifications

- McDonnell Douglas specification 3962952
- Embraer specification MEP15-029
- Lockheed LAC-LS60204
- Israel Aircraft 365-25-21-92081
- FAR 25.853a - fire resistance

Construction

Core: Aramid honeycomb.
Facings: Fiberglass cloth, phenolic resin composite.

Availability

Thickness: Per customer specification, from .110".
Size: Standard size is 48" x 96". Sizes up to 60" x 144" and longer are available on special order.
Facings: From .01" in .010" multiples. Core: From 1.8 to 5.0 pcf density; 1/8", 3/16", 1/4" cell size.



Standard Tolerances

Thickness:	+ .010"
Length:	+0.5", -0"
Width:	+0.5", -0"
Warpage:	<.004 L ² /t where L = length (ft.) and t = thickness (in.)

Alternative Gill Products

Product Number	Difference
Gillfab 4022	Higher bond strength and smoke emission (epoxy adhesive).
Gillfab 5155	Kevlar® cloth reinforced facings in place of fiberglass.



Properties of Gillfab 4122A

Based on 0.500" Thick Panel with 0.020" Facings and 3.0 pcf Nominal Nomex Core
Typical Average Property Values

Property	Test Method	Unit	Type .500"
Weight	ASTM C29	lb/sq ft (kg/sq m)	0.540 (2.64)
Thickness	ASTM C366	inch (mm)	0.491 (12.47)
Sandwich Peel	DPS 1.92	in-lb(N-m)/3 in width	32 (3.6)
Long Beam Flexural Ultimate Load Deflection @ 100 lb	DPS 1.92	lb (N) inch (mm)	320 (1423) 0.515 (13.08)
Flatwise Compressive Strength	DPS 1.92	lb/sq in (kPa)	360 (2482)
Flammability - 60 Second Self-Extinguishing Time Burn Length Drip Extinguishing Time	FAR 25.853	second inch (mm) second	0 1.3 (33.0) 0
Smoke Density	DPS 1500	D _s	23
OSU Heat Release Peak Heat Release Rate Total Heat Release	FAR 25.853	kw/sq m kw-min/sq m	26 18
Note 1 - Data above applies to Type A or Type B panel construction.			

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