

**Gillfab™ 5142A Panel**

September 2002

**Description**

Gillfab 5142A is an aircraft grade sandwich panel made from aluminum alloy facings bonded to end grain balsa wood core.

**Applications**

Normally used in commercial aircraft cargo flooring, in containerized (non-doorway) areas.

**Features**

- High performance aircraft cargo flooring.
- Service temperature range: -50°F to 160°F.

**Specifications**

- McDonnell Douglas Drawing S4929962
- FAR 25.853 - fire resistance.

**Construction**

Adhesive: Modified epoxy film adhesive.  
Core: 6.5 pcf end grain balsa wood.  
Facings: 7075-T6.

**Availability**

Thickness: .400" nominal.  
Size: Standard size is 48" x 144". Up to 48" x 168" on request.  
Facings: Standard aluminum thickness: .020"/.010".

**Standard Tolerances**

Thickness: +0/-.020"  
Length: + 0.5", - 0.125"  
Width: + 0.5", - 0.125"  
Warpage: <.004 L<sup>2</sup>/t where L = length (ft.) and t = thickness (in.)



## Alternative Gill Products

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Product Number	Difference
Gillfab 5007A & B	FRP facings in place of aluminum.
Gillfab 5140	Tedlar® film overlay bonded to one side for decorative appearance. Tedlar has canvas texture.
Gillfab 5041	6 pcf end grain balsa for non-structural (galley) panels, lower core shear strength.
Gillfab 5040	Uses elastomer adhesive.

### Properties of Gillfloor 5142A

Based on 0.40" Nominal Thickness with 0.020"/0.010"  
Aluminum Facings and 6.5 pcf Balsa Core  
Typical Property Values

Property	Test Method	Unit	Value
Weight	ASTM C 29	lb/sq ft (kg/sqm)	0.72 (3.51)
Thickness	ASTM C366	inch (mm)	0.40 (10.16)
Sandwich Peel	MIL STD 401B		
At Room Temperature		in-lb (N-m)/3 inch width	49 (5.54)
After 30 day water soak		in-lb(N-m)/3 inch width	49 (5.54)

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