

**Gillfab™ 5142 Panel**

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Description

Gillfab 5142 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 areas. (Note: Unprotected aluminum is subject to corrosion in wet applications). Due to low cost and ready availability, 5040 has been used in many miscellaneous applications

Features

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

Specifications

- McDonnell Douglas Drawing S4929905
- FAR 25.853 - fire resistance.

Construction

Adhesive: Modified epoxy film adhesive.
Core: 6.5 lb. 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: .016"/.010".

Standard Tolerances

Thickness: + 0/-0.20"
Length: + 0.5", - 0.125"
Width: + 0.5", - 0.125"
Warpage: <.004 L²/t where L = length (ft.) and t = thickness (in.)



Alternative Gill Products

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 5142

Based on 0.40" Nominal Thickness with 0.016"/0.010"
Aluminum Facings and 6.5 pcf Balsa Core
Typical Property Values

Property	Test Method	Unit	Value
Weight, max.	ASTM C 29	lb/sq ft (kg/sqm)	0.630 (3.075)
Thickness	ASTM C366	inch (mm)	0.400 (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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