

**Gillfab™ 5242A**

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Description

Gillfab 5242A is a balsa wood core sandwich panel with a top facing of .02" epoxy fiberglass bonded to .02" aluminum. Bottom facing is .012" aluminum.

Applications

Specified for use as floor in cargo compartment of DC9-50, MD-80 and MD-90 series.

Features

- Abrasion and corrosion resistant fiberglass top facing.
- Fatigue resistant core.
- Service temperature range: to 180°F.
- Aluminum facings provide high rigidity.

Specifications

- McDonnell Douglas, DAC Drawing S4932048.
- McDonnell Douglas, DMS 2211, epoxy adhesive.

Construction

Core:	9 pcf balsa wood.
Facings:	Top: .020" Gillfab 1040 bonded to .02" 2024-T3 aluminum. Bottom: .011" 2024-T3 aluminum.
Adhesive:	Thermoset epoxy, fire resistant.

Availability

Thickness:	Per customer specification, from .25" and up.
Size:	Standard size is 48" x 144". Smaller sizes are available on special.

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 5242	Very similar but with printed aluminum facings. Qualified to McDonnell Douglas DAC Drawaing S00096.
Gillfab 5007C	All fiberglass facings that have high abrasion resistance and normally last longer in severe service.
Gillfab 5042B	All aluminum facings, no fiberglass sheet on top. Qualified to McDonnell Douglas DWG S3932193, S3932195 and S4931863

Properties of Gillfab 5242A

Based on 0.4" thick panel with .040"/.012" facings

Property	Test Method	Typical Values	
		English	(Metric)
Mechanical			
Long beam flexural strength, 20" span	MILSTD 401B		
Ultimate load, lbs (kg)		400	(182)
Facing stress, ksi (MPa)		35	(241)
Deflection at 100 lb-in (mm)		.25	(6.4)
Sandwich peel, in-lbs (N-m)/3" width	MILSTD 401B		
At room temperature		25	(2.82)
After 30 day water soak		23	(2.60)
Panel core shear, psi (kPa)	MILSTD 401B	220	(1517)
Flatwise compressive strength, psi (kPa)	MILSTD 401B	1,500	(10,344)
Flatwise tensile strength, psi (kPa)	MILSTD 401B	900	(6,206)
Physical			
Weight, psf (kg/m ²)		.98	(4.4)
Impact strength, Gardner Model 11K3	ASTM D3029		
2 lb. dart, in-lbs (N-m)		26	(2.94)
Max. Service Temperature, oF(°C)		180	(82)
Thermal Conductivity,	ASTM C177		
BTU-Ft/Ft ² .hr. °F(W/cm. °C)		.30	(.043)
Flammability			
60 second vertical exposure	FAR 25.853a		
self-extinguishing time, sec		1	
burn length, inches (mm)		1	(25.4)
45 degree test	FAR 25.855		
self-extinguishing time, sec		Pass	
penetration		None	

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M.C. Gill Corp.
4056 Easy Street
El Monte, CA 91731-1087 USA
626-443-4022 info@mcgillcorp.com

M.C. Gill Europe Ltd. - Insoleq
23 Enterprise Road, Balloo Industrial Estate South
Bangor Co-Down BT19 7TA, Northern Ireland
+44 (0) 2891 470073 sales@mcgillcorp.com

www.mcgillcorp.com

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