



SINCE 1945

**M. C. GILL CORPORATION**

4056 EASY STREET, EL MONTE, CALIFORNIA 91731 • (213) 283-4786 • TELEX 67 7467

*Custom & Proprietary Laminators of Low Pressure Plastics & Sandwich Panels*

September 12, 1978

Mr. Tom Anusewitz  
Maintenance Dept.  
Antille Air Boats  
West Seaplane Ramp  
Christenstaad, St. Croix 00820  
Virgin Islands

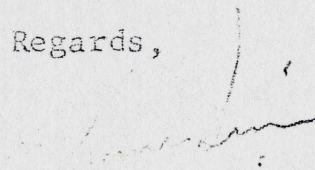
Dear Tom:

This letter refers to a telephone conversation of Sept. 12th between your office, a Mr. Ramirez of the F.A.A. San Juan and the undersigned.

Enclosed you will find a data sheet on the gillfloor 5007A, Also enclosed is a copy of a test report covering the flammability tests which were witnessed by Mr. Fred Jenkins of the Western Region F.A.A., Los Angeles.

We trust this documentation will enable you to satisfy your local F.A.A. Representative.

Regards,

  
Thomas Sim  
Head of Sales

TS/ej  
cc





(M) (S) (G) (I) (L) (L) (O) (O) (R) (F)

Specialty Floorings

10000 W. 10th Street, Minneapolis, MN 55426

Phone: 612-835-4400

Code No GILLFLOOR 5007A

Section No. H Page No. 22

Date: December 1976

DESCRIPTION. A fiberglass skin, balsawood core sandwich panel that is very corrosion, dent and wear resistant, it complies with all FAA fire resistance regulations for aircraft interiors.

MATERIALS SKINS Face. Usually .030"-.040", Gillfab 1074-fiberglass cloth reinforced polyester laminate.

Back. Usually .020"-.030", Gillfab 1074-fiberglass cloth reinforced polyester laminate.

CORE: End grain balsa wood, 7-12 lbs./ft<sup>3</sup> density, average density 9.5 lbs./ft<sup>3</sup> ± 1/2 lb.

ADHESIVE: Modified polyester.

THICKNESS: .400" ± .015" in stock; other thicknesses made to order.

SIZE: 4' x 12' in stock; available in 8' to 14' lengths, and widths to 6'.

COLOR: Translucent white.

SPECIFICATIONS: Meets fire resistant requirements of FAR 25.853, Appendix F. For conformance to BMS 4-10, Type II, see Gillfloor 5007B.

RECOMMENDED APPLICATIONS: GILLFLOOR 5007A is the most popular all-round replacement flooring for commercial aircraft. Laboratory tests and long service histories by the world's leading airlines have proven that Gillfloor 5007A should last over 20,000 hours in the main aisle of a commercial jet aircraft.

GILLFLOOR 5007A is also used to fabricate bulkheads, galleys, garment and luggage storage modules, pallets, environmental shelters and other parts requiring a high strength to weight ratio.

#### PROPERTIES OF GILLFLOOR 5007A

##### GENERAL

1. Tough, resilient construction which is very resistant to fatigue.
2. Resists denting by women's spiked heel and falling objects.
3. Self-extinguishing, meets all aircraft manufacturers and federal flammability requirements.
4. Skins are fused into the balsa in a one-step press operation.
5. Corrosion resistant, impervious to all fluids in aircraft interiors.
6. High strength to weight ratio.
7. Proven, consistent high quality performance since 1962.
8. Low cost.



TYPICAL PROPERTIES

PROPERTY	Skin Thickness - Inches		
	<u>.030"/.020"</u>	<u>.040"/.020"</u>	<u>.040"/.030"</u>
1. panel thickness, inches	.40	.40	.40
2. weight, lbs./sq. ft. ± .05	0.98	1.06	1.15
3. flex test per Mil-Std-401, 20" span			
ultimate load, lbs.	340	380	420
deflection @ 100 lb. load	.560	.530	.425
4. climbing drum peel, Mil-Std-401			
in.-lbs/3" width			
longitudinal direction	22	22	23
transverse direction	11	12	14
5. 2 lb. dart impact, in.-lbs., face, Tester #3	30	38	38
6. ball impression - 1" dia. ball loaded at 300 lbs.	.052	.042	.038
7. insert shear strength - NAS 517 bolt			
3/4" Tinnerman washer	550 lb.	620 lb.	660 lb.
3/4" Tinnerman washer with .020" Gillfab 1045 doubler	610 lb.	700 lb.	720 lb.
3/4" Tinnerman washer with .040" Gillfab 1045 doubler	690 lb.	900 lb.	950 lb.
8. flammability, FAR 25.853, Appendix F, extinguishing time			
vertical-60 sec. exposure	2 sec.	1 sec.	0 sec.
vertical-12 sec. exposure	0 sec.	0 sec.	0 sec.
(15 sec. extinguishing time maximum allowed by FAA)			
9. flatwise compression	1500 psi	1500 psi	1500 psi
10. flatness - maximum concavity 1/32 per foot with applied pressure of less than 3 lb./ft on 4 ft straight edge.			

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M. C. Gill Corporation gives no warranties, express, implied or statutory, or otherwise, as to description, quality, fitness, capacity, or any other matter, of the property described on data sheet.

The values given represent minimum values to be expected. By additional testing of each lot it is possible to verify that the laminate exceeds the tabulated values.

It is recommended, however, that prospective users evaluate the materials to determine their suitability for the user's specific requirements. M. C. Gill Corporation's values are given on the condition that the user assumes all risk and that responsibility for any loss or damage caused by or resulting from the use of such information is disclaimed by M. C. Gill Corporation.



TEST SHEET

Material: Winglas - .375" 3015 R-No. \_\_\_\_\_ P-(Q) No. \_\_\_\_\_

Lot / S.L. \_\_\_\_\_ SHEET No \_\_\_\_\_ Construction/Description.

Lot No. \_\_\_\_\_ Roll No. \_\_\_\_\_ M.B. \_\_\_\_\_

Specification F.A.R. 25.855 - a-1

Requested By: Hal Edwards Date: 5/18/73

Test For:

TEST WITNESSED BY:

*Frederick R. Jenkins*  
Mr. F. Jenkins AVE-130 5-18-73  
 Federal Aviation Adm.

- Tensile  Flatwise Tensile
- Compressive  Flatwise Compression
- Shear Str./Mod  \_\_\_\_\_ Remarks \_\_\_\_\_
- Torsion Str./Mod  \_\_\_\_\_
- Shear Str.  \_\_\_\_\_
- Compressive Str
- Joint  Warp only
- Shear/Sq. ft  Warp/Fill
- Peel  Room Temp
- Panel Deflection  \_\_\_\_\_ °F

Tested By F. Edwards Date 5-18-73

	FLEX STRENGTH/MODULUS						TENSILE STRENGTH/MODULUS			
	(Psi x 10 <sup>3</sup> )		(Psi x 10 <sup>6</sup> )				(Psi x 10 <sup>3</sup> )		(Psi x 10 <sup>6</sup> )	
	b	d	W	H	S	E <sub>f</sub>	b	d	Load Dist	T
WARD	1									
	2									
	3									
	4									
	5									
	Ave									
	REQUIRED						REQUIRED			
FILL	1									
	2									
	3									
	4									
	5									
	Ave									
	REQUIRED						REQUIRED			

	GILL/DOUGLAS				McDONNELL/DOUGLAS				BOEING DART				
	1	2	3	4	1	2	3	4	1	2	3	4	
Fr. / lbs.													
	REQUIRED				REQUIRED				REQUIRED				

	60-sec vertical					45° angle - 30 seconds				
	1	2	3	Ave	Req	1	2	3	Ave	Req
Time to exting.	—	—	—	—		0	0	0	0	
Flow Time, sec.	—	—	—	—		0	0	0	0	
Penetration in	—	—	—	—		none	none	none	none	