

**Gillfloor™ 5007D Panel**

June 2005

**Description**

The Gillfloor 5007D cargo floor panel was developed in response to freight carriers' requests for a more durable, impact resistant panel for use in areas subjected to high abuse. It is constructed of heavy, uni-directional fiberglass reinforced, vinyl ester facings bonded to an end-grain balsawood core. An abrasion resistant top surface is integrally bonded to the panel.

**Applications**

Flooring in cargo compartment and other high abuse areas.

**Features**

- Highest impact resistance of the Gillfloor 5007 series of floor panels, designed for use in the most demanding cargo compartment areas.
- Durable performance in cargo compartments.
- Service temperature range: -65F to 180F.

**Specifications**

- FAR 25.853 and 25.855: 60 and 12 second vertical burn test, and 45° tests.

**Construction**

Adhesive: Modified, fire resistant polyester.  
Core: 9 pcf balsa wood.  
Facings: Unidirectional fiberglass with mat overlay.

**Availability**

Thickness: Per customer specification, from .25" up.  
Size: Standard size is 48" x 144". Sizes up to 48" x 168" are available on special order.  
Facings: Top: 0.065" or 0.085" thick; Bottom: 0.030" thick

**Standard Tolerances**

Thickness: +/- .020"  
Length: -0, +0.5"  
Width: -0, +0.5"  
Warpage: < 0.025"/ft.



## Alternative Gill Products

Gillfloor 5007A	The original panel of the 5007 series; the lightest of this family of panels, for lighter duty applications; originally used for passenger compartment flooring.
Gillfloor 5007B	Higher peel strength than Gillfloor 5007A, for more durability.
Gillfloor 5007C	Thicker facings than Gillfloor 5007B, with abrasion resistant surface for heavier duty applications than Gillfloor 5007A or 5007B.

### Properties of Gillfloor 5007D

Based on 0.4" Thick Panel with 0.085"/0.030" Thick Facings  
and 0.300" Thick End-Grain Balsa Core at 9.0 pcf Nominal Density  
Typical Properties

Property	Test Method	Property Measurement
Weight, lbs./ft. <sup>2</sup> (kg/m <sup>2</sup> )	ASTM C 29	1.39 (6.8)
Thickness, in. (mm)	ASTM C 366	0.414 (10.5)
Long Beam Flexural Strength Length Direction, Ultimate Load, lbs., (N) Width Direction, Ultimate Load, lbs., (N)	ASTM C 393	575 (2258) 583 ((2593)
Compressive Strength, psi (MPa)	ASTM C 365	1800 (12.4)
Panel Core Shear Strength, lbs. (N) Length Direction Width Direction	ASTM C 393	665 (2958) 891 (3964)
Impact Strength, in.-lbs. (N-m)	ASTM D 5420	298 (34)
Abrasion Resistance, H-22 Wheels, weight loss, grams/1000 cycles	ASTM D 1242	0.037
Flammability - 60 Second Vertical Self-Extinguishing Time, secs. Burn Length, in. (mm) Drip Extinguishing Time	FAR Part 25, Appendix F, Part I(b)(4)	6.0 1.0 (25.4) No Drips
Flammability - 12 Second Vertical Self-Extinguishing Time, secs. Burn Length, in. (mm) Drip Extinguishing Time	FAR Part 25, Appendix F, Part I(b)(4)	2.1 0.2 (5.1) No Drips
Flammability - 45 Degree Self-Extinguishing Time, secs. Afterglow Time, secs. Flame Penetration	Far Part 25, Appendix F, Part I(b)(6)	0.0 0.0 None

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