



Gillfloor™ 5007C Panel

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Description

Gillfloor 5007C is an aircraft sandwich panel made from polyester fiberglass facings fused to end grain balsa wood core. This configuration has thicker, more abrasion resistant facings than 5007B or 5007A.

Applications

Flooring in cargo compartment or other high abuse areas.

Features

- Thick, abrasion, and impact resistant facings.
- Durable performance in cargo compartments..
- High impact facings
- Service temperature range: -65F to 180F.

Specifications

- FAR 25.855 – 12 second vertical and 45° flammability requirements.
- FAR 25.853 – 60 second vertical flammability requirement.

Construction

Adhesive: Modified, fire resistant polyester.

Core: 9 pcf balsa wood.

Facings: Gillfab 1074 with mat overlay.

Availability

Thickness: Per customer specification, from .25" up.

Size: Standard size is 48" x 144". Sizes up to 72" x 168" are available on special order.

Facings: Top - .03", .04" or .045" thick.

Bottom: .025", .030", .035" or .040" thick.

Standard Tolerances

Thickness: +/- .020"

Length: -0, +0.5"

Width: -0, +0.5"



Alternative Gill Products

Product Number	Difference
Gillfloor 5007B	Lighter version for passenger flooring.
Gillfab 5242	Fiberglass cloth bonded to aluminum top skin (not as durable as 5007C but lighter).

TYPICAL PROPERTIES OF GILLFLOOR 5007C
 Based on 0.4" Thick Panel with 0.045"/0.030" Thick Facings
 and 0.325" Thick End-Grain Balsa Core at 9.0 pcf Nominal Density
 Typical Properties

Property	Test Method	Unit	Measurement
Weight	ASTM C29	lb/sq ft (kg/sq m)	1.09 (5.3)
Thickness	ASTM C366	inch (mm)	0.400 (10.2)
Sandwich Peel	AMS-STD-401	in-lb(N-m)/3 in width	52 (5.9)
Long Beam Flexural Ultimate Load	AMS-STD-401	lb (N)	431 (1917)
Facing Stress		ksi (MPa)	22.0 (151.0)
Deflection @ 100 lbs load		inch (mm)	0.629 (16.0)
Flatwise Compression	AMS-STD-401	lb/sq in (MPa)	1,982 (13.7)
Flatwise Tensile	AMS-STD-401	lb/sq in (MPa)	644 (4.4)
Insert Shear, Note 1	BMS 4-17	lb (N)	1,028 (4573)
Impact Strength	ASTM 3029	in-lb (N-m)	84 (9.5)
Flammability - 60 Second Vertical Self-Extinguishing Time	FAR Part 25, Appendix F, Part I	second	0
Burn Length		inch (mm)	0.6 (15.2)
Drip Extinguishing Time		second	0
Flammability - 45 Degree Self-Extinguishing Time	FAR Part 25, Appendix F, Part I	second	0
Afterglow		second	0
Penetration		----	None

Note 1: Shurlok Insert 5107-A3 used in test.

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