



Gillfloor™ 5007A Panel

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Description

Gillfloor 5007A is an aircraft quality sandwich panel made from polyester fiberglass facings bonded to end grain balsa wood core.

Applications

Originally designed as flooring in commercial aircraft, 5007A has also been used as galley panels, cargo pallet base, aircraft flooring, aircraft enclosures, partitions in yachts, and bulkheads.

Features

- Low cost for an aircraft grade panel.
- Durable service life - proven performance in high traffic areas
- Service temperature range: to 160F.

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 end grain balsa wood.

Facings: Gillfab 1074 - fiberglass cloth reinforced polyester.

Availability

Thickness: Per customer specification, from .25" and thicker.

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

Standard Tolerances

Thickness: +/- .015"

Length: -0, +0.5"

Width: -0, +0.5"



Alternative Gill Products

Product Number	Difference
Gillfloor 5007B	Higher peel version (meets the requirements of BMS 4-10 Ty II).
Gillfloor 5007C	Flooring in cargo compartment, thicker abrasion resisting facings.
Gillfloor 5040	Aluminum facings in place of fiberglass.

PROPERTIES OF GILLFLOOR 5007A

Based on 0.4" thick panel with 0.040"/0.020" thick facings
and 0.340" 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)	1.05 (5.1)
Thickness	ASTM C366	inch (mm)	0.408 (10.4)
Sandwich Peel	AMS-STD-401	in-lb(N-m)/3 in width	33 (3.73)
Long Beam Flexural Ultimate Load	AMS-STD-401	lb (N)	425 (1890)
Facing Stress		ksi (MPa)	15.0 (103.5)
Deflection @ 100 lbs load		inch (mm)	0.531 (13.5)
Flatwise Compression	AMS-STD-401	lb/sq in (MPa)	1762 (12.15)
Flatwise Tensile	AMS-STD-401	lb/sq in (MPa)	519 (3.58)
Insert Shear ¹	BMS 4-17	lb (N)	1038 (4617)
Impact Strength	ASTM 3029	in-lb (N-m)	76 (8.6)
Flammability - 60 Second Vertical Self-Extinguishing Time	FAR Part 25, Appendix F, Part I	second	0
Burn Length		inch (mm)	0.9 (22.9)
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

1. Shurlok Insert 5107-A3 used in test.

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