



Gillfloor™ 5007B Panel

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Description

Gillfloor 5007B is an aircraft quality sandwich panel made from polyester-fiberglass facings fused into end grain balsa wood core.

Applications

5007B has a successful history as flooring in high traffic areas. Used for aircraft flooring, bulkheads in planes and ships, cargo pallet bases and aircraft enclosures since 1976.

Features

- Low cost for an aircraft grade panel.
- Durable service life and more rigid than lightweight floorings.
- Higher peel strength than 5007A.
- Service temperature range: - 65F to 160F.

Specifications

- FAR 25.855 - 12 second vertical and 45° flammability requirements..
- FAR 25.853 - 60 second vertical flammability requirement.
- United Airlines SHE 2902.

Construction

Adhesive: Modified, fire resistant polyester.

Core: 9 pcf end grain balsa wood.

Facings: Gillfab 1074 - fiberglass cloth reinforced polyester laminate.

Availability

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

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

Facings: Starting at .015" in multiples of .005".

Standard Tolerances

Thickness: +/- .015"

Length: -0, +0.5"

Width: -0, +0.5"



Alternative Gill Products

Product Number	Difference
Gillfloor 5007A	Lower peel resistance, original version of 5007.
Gillfloor 5007C	Version for cargo compartment flooring - more abrasion resistant surface but heavier.
Gillfloor 5040	Aluminum facings in place of fiberglass.

TYPICAL PROPERTIES OF GILLFLOOR 5007B

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)	1.08 (.5.1)
Thickness	ASTM C366	inch (mm)	0.424 (10.8)
Sandwich Peel	AMS-STD-401	in-lb(N-m)/3 in width	45 (5.1)
Long Beam Flexural Ultimate Load Facing Stress Deflection @ 100 lbs load	AMS-STD-401	lb (N) ksi (MPa) inch (mm)	396 (1762) 14.7 (101.4) 0.655 (16.6)
Flatwise Compression	AMS-STD-401	lb/sq in (MPa)	1,653 (11.4)
Flatwise Tensile	AMS-STD-401	lb/sq in (MPa)	685 (4.7)
Insert Shear Note 1	BMS 4-17	lb (N)	1,012 (4501)
Impact Strength	ASTM 3029	in-lb (N-m)	54 (6.1)
Flammability - 60 Second Vertical Self-Extinguishing Time Burn Length Drip Extinguishing Time	FAR Part 25, Appendix F, Part I	second inch (mm) second	0 1.7 (43.2) 0
Flammability - 45 Degree Self-Extinguishing Time Afterglow Penetration	FAR Part 25, Appendix F, Part I	second second ---	0 0 None
Note 1 Shurlok Insert 5107-A3 used in test.			

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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

