



Gillfab™ 5120 Panel

March 2011

Description

Gillfab 5120 is a very thin sandwich panel made with aluminum skins and aluminum honeycomb.

Applications

As flooring, cabinetry and instrument panels in general aviation aircraft. These panels are more rigid than plate aluminum of the same thickness but weigh 50% less.

Features

- Lighter weight, lower cost and stronger than Goodyear's Bondolite "Z" panels or Gillfab 5020 (thin, crushed aluminum honeycomb sandwich panels; Catalog Section H-15).
- Can be routed, sawed and drilled the same as sheet aluminum.
- Good bolted joint pull-out, inserts not required.
- Adhesive not affected by aircraft lubricants, cleaning fluids or fuel.
- Panel can withstand 190° F for long term and 300° F for short term without marked deterioration of physical and/or mechanical properties.

Construction

Adhesive: Epoxy film adhesive exceeding requirements of Mil-A-25463.

Availability

Size: Standard size is 48" x 144". Special sizes governed by standard sheet aluminum size.

Specifications

Type	Total Thickness	Weight lb/ft ²	Faces – 2024T3 Aluminum	
			Top	Bottom
091	0.091	0.62	.020	.012
125	0.125	0.73	.020	.020



Properties of Gillfab 5120

Property	Test Method	Typical Values	
		English	Metric
Mechanical			
Climbing Drum Peel, minimum	Fed Std 401	40 in-lbs	46 cm-kg
Flatwise Tensile, minimum	Fed Std 401	700 PSI	5000 kPa
Compressive Strength	Fed Std 401	1000 PSI	6900 kPa
Flammability, ext. time	FAR 25.353	2 sec	

M.C. Gill Corporation gives no warranties, expressed, implied or statutory, or otherwise, as to the description, quality, fitness, capacity, or any other matter, of the properties described. The data given represents minimum values to be expected. Through additional testing of each lot it is possible to verify that the product exceeds the tabulated values. It is recommended, however, that prospective users evaluate the materials to determine their suitability for the users' specific requirements. 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.

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

© M.C. Gill Corporation. All rights reserved.

