



PRODUCT DATA SHEET

Gillfab® 4122S

DESCRIPTION

Gillfab® 4122S is a light weight and low smoke emission sandwich panel made from woven glass reinforced phenolic facings bonded to meta-aramid honeycomb core. 1 mil white polyvinyl fluoride film overlay can be added on one or both sides upon request.

APPLICATIONS

This versatile panel is typically used for aircraft interior applications such as sidewall, cargo compartments, bulkheads, galley, lavatory, and ceiling panels.

FEATURES

- Low smoke emission
- Good burn through resistance
- Corrosion resistant
- High strength to weight ratio

AVAILABILITY

Thickness ¹ , inch (mm)	0.250 (6.35)
	0.500 (12.70)
	0.750 (19.05)
	1.000 (25.40)
Length, inch (mm)	Typical 144 (3,658)
Width, inch (mm)	Typical 48 (1,219)
Color	Natural or White

¹Different panel thicknesses available upon request

CONSTRUCTION

Adhesive: Modified phenolic
Core: Gillcore® HD honeycomb
Facings Reinforcement: 7781 Fiberglass cloth
Facings Resin System: Phenolic

1 mil white polyvinyl fluoride film overlay can be added on one or both sides upon request.

SPECIFICATIONS

- FAR Part 25.853 and 25.855 Appendix F Part I

HEALTH PRECAUTIONS

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Safety Data Sheet (SDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. A SDS is available at <https://www.thegillcorp.com/msds.php>.

For industrial use only. Keep away from children. Additional information can be found at: www.thegillcorp.com. For sales and order information call 1-626-443-6094.





PERFORMANCE PROPERTIES, TYPICAL

Below values are typical of 4122S panels and should NOT be used as design values.

FAA approved B-Basis allowables for 4122S250, 4122S500, and 4122S750 mechanical properties and FAA forms 8110-3 are available upon request.

TGC Part Number			4122S250	4122S500	4122S750	4122S1.0
Physical Properties						
Panel Thickness, inch (mm)			0.247 (6.2)	0.497 (12.6)	0.744 (18.9)	1.000 (25.4)
Nominal Facing Thickness ¹ , inch (mm)			0.020/0.020 (0.508/0.508)			
Areal Weight, PSF (kg/m ²)			0.48 (2.34)	0.54 (2.64)	0.60 (2.93)	0.65 (3.17)
Mechanical Properties						
Long Beam Bending ²	Ultimate Load, lbf (N)	Ribbon	75 (334)	200 (890)	290 (1290)	360 (1601)
		Transverse	80 (356)	190 (845)	275 (1223)	340 (1512)
	Facesheet Ultimate Strength, ksi (MPa)	Ribbon	30 (207)			
		Transverse	30 (207)			
Short Beam Shear ³	Ultimate Load, lbf (N)	Ribbon	280 (1246)	475 (2113)	670 (2980)	755 (3358)
		Transverse	145 (645)	265 (1179)	375 (1668)	455 (2024)
	Core Shear Ultimate Strength, psi (MPa)	Ribbon	200 (1.38)	160 (1.10)	150 (1.03)	125 (0.86)
		Transverse	105 (0.72)	90 (0.62)	85 (0.59)	77 (0.53)
Core Compression Ultimate Strength ⁴ , psi (MPa)			420 (2.90)	355 (2.45)	335 (2.31)	335 (2.31)
In-Plane Shear Ultimate Strength ⁵ , lbf/inch (N/mm)			N/A	N/A	455 (80)	N/A
Flammability Properties						
Flammability			Meets FAR 25.853 and 855 App. F Part I			

¹ Each facing includes two layers of 7781 fiberglass cloth. Different facing thicknesses are available upon request.

² Long Beam Bending was tested and Facesheet Ultimate Strength was calculated per ASTM D7249. Specimens were tested with 4-point bending configuration (4" loading span and 22" support span).

³ Short Beam Shear was tested and Core Shear Ultimate Strength was calculated per ASTM C393. Specimens were tested with 3-point bending configuration (6" support span).

⁴ Core Compression was tested and calculated per ASTM C365.

⁵ In-Plane Panel Shear specimens were tested per ASTM D8067.