



## FLITELAM GN51 PRODUCT DATA SHEET

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**Flitelam GN51 is a lightweight honeycomb sandwich panel incorporating thermoplastic resin impregnated woven glasscloth skins bonded each side of a commercial aramid honeycomb core with a thermoplastic film adhesive**

### **Application**

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General aircraft interior use for stowages, bulkheads, etc

### **Features**

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Light weight  
Available in off-white, black or natural  
Excellent surface finish, non-porous, easy to machine  
Excellent peel strength  
Excellent fire properties

### **Availability**

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Thickness: As per customer requirement

Size: 8' x 4', 10' x 5', 12' x 4', 12' x 5', 12' x 6'  
Other sizes, including metric, available on request

### **Part Number** **eg. Flitelam GN51 (009/0750/009)**

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"G" denotes woven glass skins  
"N" denotes Nomex (aramid) honeycomb core  
"51" sequential identification number

009 / 0750 / 009

— skin thickness (thousandths inch)  
— core thickness (thousandths inch)  
— skin thickness (thousandths inch)

### **Tolerances**

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Thickness: +/-0.01" (+/-0.25mm)

Length / Width: +/-0.2" (+/- 5mm)

Warpage: 0.025"/ft (2mm/m) max.

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PROPERTY	TEST METHOD	PANEL TYPE
		009/0750/009 *
AREAL WEIGHT (kg/m <sup>2</sup> ) (lb/ft <sup>2</sup> )		2.2
		0.45
THICKNESS (mm) (in)		19.5
		0.77
LONG BEAM COMP (N) TRANSVERSE (lb)	AMS STD 401	1414 318
LONG BEAM COMP (N) LONGITUDINAL (lb)	AMS STD 401	1414 318
SHORT BEAM SHEAR (N) TRANSVERSE (lb)	AMS STD 401	2638 593
SHORT BEAM SHEAR (N) LONGITUDINAL (lb)	AMS STD 401	3705 833
PEEL (N/76mm) TRANSVERSE (lb/3")	AMS STD 401	350 79
PEEL (N/76mm) LONGITUDINAL (lb/3")	AMS STD 401	490 110
FLATWISE COMP. (N/mm <sup>2</sup> ) (psi)	AMS STD 401	2.6 381
IN PLANE SHEAR (N/mm) TRANSVERSE (lb/in)		57 327
IN PLANE SHEAR (N/mm) LONGITUDINAL (lb/in)		53 303
FLAMMABILITY 60sec V Burn Length (in) Afterflame Time (sec) Drip Flame Time (sec)	FAR/CS 25.853(a)	1.7 0 0
SMOKE EMISSION Dm in 4min.	FAR/CS 25.853(d) ABD0031/D6-51377	19
TOXIC GAS EMISSION	ABD0031 D6-51377	PASS PASS
HEAT RELEASE RATE Peak (kW/m <sup>2</sup> ) 2min. Total(kWmin/m <sup>2</sup> )	FAR/CS 25.853(d)	32 34

### NOTES

\* Data for 2 ply film adhesive

Long Beam - 24" x 3" specimen, 4 pt. load, 20" support span, 10" load span  
Short Beam - 8" x 3" specimen, 3 pt. load, 4" support span, centre point load