



## FLITELAM UNS10 PRODUCT DATA SHEET

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**Flitelam UNS10 is a honeycomb sandwich panel incorporating phenolic resin impregnated unidirectional glass skins each side of a medium density aramid honeycomb core**

### Application

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Aircraft interior flooring applications - under seat areas, low smoke

### Features

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Light weight  
Conforms to FAR/CS 25.853 fire requirements  
Good surface finish, easy to machine  
Resistant to fibre pull-out  
Good impact resistance

### 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 UNS10 (012/0375/012)**

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"U" denotes unidirectional glass skins  
"N" denotes Nomex (aramid) honeycomb core  
"S" denotes structural applications  
"10" sequential identification number

012 / 0375 / 012

— 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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## FLITELAM UNS10 PRODUCT DATA SHEET

PROPERTY	TEST METHOD	PANEL TYPE *			
		0.4"	0.53"	0.65"	0.78"
AREAL WEIGHT (kg/m <sup>2</sup> ) (lb/ft <sup>2</sup> )		2.3	2.5	2.8	3.0
		0.47	0.51	0.57	0.61
THICKNESS (mm) (in)		10.2	13.5	5	19.8
		0.4	0.53	0.65	0.78
LONG BEAM COMP (N) TRANSVERSE (lb)	AMS STD 401	924	811	1000	1165
SHORT BEAM SHEAR (N) TRANSVERSE (lb)	AMS STD 401	1575	2235	2901	3011
PEEL (N/76mm) TRANSVERSE (lb/3")	AMS STD 401	179	211	177	259
IMPACT (Nm)	BMS4-17	2.6	2.6	2.6	2.6
		5	5	5	5
CORE COMP. (N/mm <sup>2</sup> ) (lb/in <sup>2</sup> )	AMS STD 401	725	725	725	725
		1588	1588	1588	1588
IN PLANE SHEAR (N/in)					
HEAT RELEASE RATE Peak (kW/m <sup>2</sup> ) 2min. Total(kWmin/m <sup>2</sup> )	FAR/CS 25.853(d)			37.9	
				13.7	
SMOKE EMISSION Dm in 4min.	FAR/CS 25.853(d) ABD0031/D6-51377			21	
TOXIC GAS EMISSION	ABD0031 D6-51377			PASS	
				PASS	
FLAMMABILITY 60sec V Burn Length (in) Afterflame Time (sec) Drip Flame Time (sec)	FAR/CS 25.853(a)			0.8	
				5.8	
				0	
FLAMMABILITY 30s/45° Afterflame Time (sec) Afterglow Time (sec) Penetration	FAR/CS 25.853(a)			0	
				0	
				NONE	

### NOTES

- \* 0.4" = (012/0375/012)                      0.53" = (012/0506/012)  
       0.65" = (012/0626/012)                0.78" = (012/0756/012)

Long Beam - 24" x 3" specimen, 4 pt. load, 15" support span, 5" load span for 0.4" panel  
 22.5" / 7.5" for 0.53", 0.65" and 0.78" panels  
 Short Beam - 8" x 3" specimen, 3 pt. load, 4" support span, centre point load  
 FST data for 0.4" panel, considered to be "worst case".