

MIL-C-81986 (AS)  
Amendment 1  
15 December 1975

MILITARY SPECIFICATION

CORE MATERIAL, PLASTIC HONEYCOMB,  
NYLON PAPER BASE; FOR AIRCRAFT  
STRUCTURAL APPLICATIONS

This amendment forms a part of Military Specification MIL-C-81986 (AS) dated 19 November, 1974, and has been approved by the Naval Air Systems Command, Department of the Navy.

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Paragraph 3.1, line 2. Delete "4.3.2" and substitute "4.4.2".

Page 3

Paragraph 3.2.2, line 1. Delete "impregnate" and substitute "coat".

Paragraph 3.2.2, line 4. Delete "impregnation" and substitute "coating".

Page 4

To the right of the page, under dimension "w", add "Figure 1".

At the bottom of the drawing, delete the dimension "7" and substitute "T".

To the bottom of the page add the following:

"L = LONGITUDINAL DIRECTION (PARALLEL TO CORE RIBBONS)  
W = TRANSVERSE DIRECTION (PERPENDICULAR TO CORE RIBBONS)  
T = THICKNESS"

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Table 1. Delete and substitute the following:

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TABLE I  
PROPERTIES OF CORE MATERIALS 1/

Core		Compressive strength psi <u>2/</u>	Plate shear			
			"L" Direction		"W" Direction	
			Strength psi	Modulus ksi	Strength psi	Modulus ksi
Cell size $\pm 10\%$	Density lbs/cu ft $\pm 10\%$	Minimum for single specimen	Minimum for single specimen	Minimum for single specimen	Minimum for single specimen	Minimum for single specimen
1/8	3.0	270	162	4.7	85	2.4
1/8	4.0	470	225	6.7	112	3.6
1/8	5.0	660	250	8.4	150	4.5
3/16	2.0	105	72	2.5	40	1.4
3/16	3.0	270	120	3.7	67	1.7
3/16	4.0	440	210	6.1	112	3.1
3/16	6.0	650	360	10.0	200	5.5
1/4	1.5	50	45	1.8	22	1.3
1/4	2.0	95	72	2.2	36	1.8
3/8	1.5	50	45	1.7	22	1.1
3/8	2.0	95	72	2.2	36	1.8

1/ Compressive strength specimens shall be stabilized before test as recommended in MIL-STD-401.

Paragraph 4.6.2.2. Delete and substitute the following:

"4.6.2.2 Procedure - The distance flats for ten cells in a row in the transverse direction "w" in six randomly selected locations shall be measured to the nearest 0.01 inch. The nominal cell size shall be taken as a tenth of the measured distance as illustrated in Figure 1 and the results averaged."

Paragraph 4.6.3, line 4. After the word "tested", add "at room temperature (73.5  $\pm$ 2°F) and the results averaged".

Preparing Activity:  
NAVY - AS  
(Project No. 56104-01)