

U.S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

SPECIFICATION

PAD, SLEEPING

This amendment forms part of Forest Service specification 5100-522A, dated March 1991.

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2.2: Add: "D 412 - Test Methods for Rubber Properties in Tension  
D 624 - Test Method for Rubber Property--Tear Resistance".

3.1: Delete in its entirety and substitute:

"3.1 First article. Unless otherwise specified (see 6.2), the contractor shall furnish three full size samples in both 3/8 inch and 1/8 inch thicknesses for first article testing in accordance with 4.3."

Add the following new paragraph:

"3.1.1 Preparing first article test samples. One sleeping pad of each required thickness shall be cut into 12 test samples measuring 11 inches wide by 12 inches long. The 24 test samples (12 of each thickness) shall be packed flat in a box of sufficient strength to ensure the samples are not compressed during shipment to the testing facility."

3.2.2: Delete in its entirety and substitute:

"Pad dimensions. The pad shall be 3/8 ±1/32 inch thick, 22 inches ±1/4 inch wide, and 73 inches ±1/2 inch long."

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Table I: Under tensile strength requirements delete "45" and add "35".

Delete Table II in its entirety and substitute:

TABLE II. End item test

<u>Characteristics</u>	<u>Specification Requirement</u>	<u>Reference Test Method</u>
Material identification	3.2.3	<u>1</u> /
Tensile strength, psi, min	3.2.3	ASTM D 412, Die "A" <u>2</u> /
Elongation, % min	3.2.3	ASTM D 412, Die "A" <u>2</u> /
Tear resistance, lbs/inch, min	3.2.3	ASTM D 624, Die "C"
Density, lbs/cu ft, max	3.2.3	ASTM D 3575
Shrinkage, % max	3.2.3	4.4.3.1
Compression deflection		
@ 10 psi, % max	3.2.3	ASTM D 3575
@ 30 psi, % max	3.2.3	ASTM D 3575
Compression set		
22 hrs @ 73 ± 4°F, % max	3.2.3	ASTM D 3575
22 hrs @ 0°F, % max	3.2.3	ASTM D 3575
Water absorption, % max	3.2.3	ASTM D 1056
Cell size, inch max	3.2.3	ASTM D 3576

1/ The certification shall include material identification data.

2/ Tensile and elongation testing shall be performed using 1/8 inch thick pad material; all other testing shall be with the 3/8 inch thick material."

Delete 4.4.3.2 in its entirety.