

INCH-POUND

MIL-W-43638B

17 May 1991

SUPERSEDING

MIL-W-43638A

19 February 1974

MILITARY SPECIFICATION

WEBBING, TEXTILE, WOVEN, FOR TENT FRAMING

This specification is approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers low elongation, cotton, water repellent and mildew resistant treated, textile webbing for tent framing.

1.2 Classification. The webbing shall be of the following types as specified (see 6.2):

- | | |
|----------|--------------------------------|
| Type I | - Low strength (600 pounds) |
| Type II | - High strength (1200 pounds) |
| Type III | - Super strength (2000 pounds) |

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be used in improving this document should be addressed to: U.S. Army Natick Research, Development, and Engineering Center, Natick, MA 01760-5019 by using the Standardization Documents Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 8305

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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SPECIFICATION

MILITARY

MIL-P-43334 - Packaging of Textile Webbing and Tape

STANDARDS

FEDERAL

FED-STD-191 - Textile Test Methods

MILITARY

MIL-STD-105 - Sampling Procedures and Tables for Inspection
by Attributes

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.1.2 Other Government documents, drawings, and publications. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

FEDERAL TRADE COMMISSION

Rules and Regulations Under the Textile Fiber Products Identification Act

(Copies may be obtained from the Federal Trade Commission, Correspondence Branch, Washington, DC 20580-0001.)

2.2 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 First article. When specified (see 6.2), a sample shall be subjected to first article inspection (see 6.3) in accordance with 4.3.

3.2 Material. It is encouraged that recycled material be used when practical as long as it meets the requirements of this document.

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3.2.1 Cotton yarn. The cotton yarn shall be carded except that the catch-cord utilized on the latch type shuttleless loom shall be combed peeler 40/2 ply cotton yarn and shall be natural color. The yarns shall be spun and twisted into ply yarns as specified in 3.4.

3.2.2 Nylon yarn. The catch-cord for the bobbin type shuttleless loom shall be 210 denier, undyed nylon.

3.3 Color. The color of the webbing shall be natural, undyed. The color of the webbing after finishing may deviate from natural by that degree imposed by the functional finishes required or specified.

3.4 Physical requirements. The finished webbing shall conform to the requirements specified in table I when tested as specified in 4.4.3.

TABLE I. Physical requirements

	Type I	Type II	Type III
Width, inches	1.0	1.5	1.5
Tolerance	$\pm 1/16$	$\pm 1/16$	$\pm 1/16$
Weight, oz/lin. yd. $\frac{1}{2}$	1.15	1.65	2.30
Tolerance (percent)	± 5	± 5	± 5
Texture (warp yarns full width min):			
Body	78	96	96
Edges	17	17	17
Stuffer	28	50	96
Binder	14	17	17
Filling yarns per inch (min)	28 (1 yarn per shed) or 56 (2 yarns per shed)	28 (1 yarn per shed) or 56 (2 yarns per shed)	28 (1 yarn per shed) or 56 (2 yarns per shed)
Breaking strength lbs. (min) warp, full width	600	1200	2000
Weave	(figure 1)	(figure 2)	(figure 3)
Yarn number, ply and material: $\frac{2}{2}$			
Warp yarns:			
Body and edges	12/3 carded cotton	12/3 carded cotton	12/3 carded cotton

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TABLE I. Physical requirements (cont'd)

	Type I	Type II	Type III
Yarn number, ply and material: <u>2</u> /			
Warp yarns: (cont'd)			
Stuffer	10/7 carded cotton <u>3</u> /	10/7 carded cotton <u>3</u> /	10/7 carded cotton <u>3</u> /
Binder	12/3 carded cotton	12/3 carded cotton	12/3 carded cotton
Filling yarn	12/3 carded cotton (1 yarn per shed) or 16/2 carded cotton (2 yarns per shed)	12/3 carded cotton (1 yarn per shed) or 16/2 carded cotton (2 yarns per shed)	12/3 carded cotton (1 yarn per shed) or 16/2 carded cotton (2 yarns per shed)
Elongation percent (max) lbs.	8 at 600 lbs.	6 at 1200 lbs.	8 at 2000 lbs.

1/ Values apply only to webbings prior to finishing.

2/ Tolerance of plus or minus 5 percent yarn size permitted.

3/ High strength, low elongation cotton yarn with a minimum tenacity of 3.0 grams per denier.

3.5 Weave. The webbing shall be a double fabric consisting of face, back and stuffer warps bound together by a binder warp and the filling. The face and back warps shall be woven in a plain weave, with the filling weaving alternately on the face and back warps. The binder warp ends shall weave plain. When latch type shuttleless looms are utilized, the filling yarn shall traverse the full width of the webbing and shall be held at the edge by an extra cotton catch-cord end, interlacing with the filling yarn, in one of the methods depicted in figures 4 and 6 for latch needle type shuttleless looms. When bobbin type shuttleless looms are utilized, the catch-cord shall be nylon and the point of interlacing the catch-cord and the filling shall occur within the selvage area before the first binder end (see figure 5).

3.5.1 Curvature. The finished webbing shall show no more lateral curvature than 1/4 inch when tested as specified in 4.4.3.

3.6 Finish. The webbing shall be water repellent and mildew resistant treated.

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3.6.1 Drying of webbing. The webbing shall be dried after finishing with sufficient tension to conform to the elongation requirements specified in table I.

3.6.2 Nonfibrous materials. The starch and protein content including chloroform-soluble and water-soluble material of the webbing, prior to finishing, shall not exceed 5.5 percent when tested as specified in 4.4.3.

3.6.3 Water repellency. The webbing shall be treated for water repellency and the water repellent shall consist of aluminum salts of saturated carboxylic acid (such as formate, acetate, palitate, or stearate) zirconium salts of such saturated carboxylic acids, or a combination of both mixed with refined mineral and vegetable waxes, titanate esters, or a combination of both. The product shall be applied either in the form of an aqueous emulsion or in the form of a water-free solvent solution. The dynamic absorption of the treated material shall be no more than 40 percent when tested as specified in 4.4.3.

3.6.4 Mildew inhibitor. The webbing shall be mildew resistant treated by evenly depositing within the webbing a minimum of 0.13 percent to a maximum of 0.40 percent copper as metal from copper 8-quinolinolate using the method of application specified in 3.6.4.1. The test for copper content shall be as specified in 4.4.3.

3.6.4.1 Application. The method of application shall be a one-bath solvent process containing a solubilized or well-dispersed form of copper 8-quinolinolate and not a combination of both; or a treating bath of bound oxine and copper octoate (see 6.5). The process used shall be either solubilized or dispersed. Any petroleum fractions, oils, or resins shall be of a nonoxidizing type and free of other copper compounds, naphthenic acid and its salts. The finished webbing shall be free from solvent odor. If solvents are employed in processing, the finished webbing shall be free from residual solvent.

3.6.5 pH. The webbing shall have a pH value of not less than 5.5 nor more than 8.5 when tested as specified in 4.4.3.

3.7 Length and put-up. Unless otherwise specified (see 6.2), the rolls of webbing shall consist of the yardage as specified in table II, and put-up in accordance with 5.1. One end of each piece in the roll shall be marked with paper or other distinctive means to reveal the number of pieces in each roll.

TABLE II. Roll yardage and pieces

Type	Form	<u>Roll yardage</u>		Number of pieces per roll (maximum)	Yards per piece (minimum)
		(minimum)	(maximum)		
I	Flat roll	80	100	3	10

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TABLE II. Roll yardage and pieces (cont'd)

Type	Form	<u>Roll yardage</u>		Number of pieces per roll (maximum)	Yards per piece (minimum)
		(minimum)	(maximum)		
II	Flat roll	60	80	3	10
III	Flat roll	60	80	3	10

3.8 Identification tickets. Each roll of webbing shall have an identification ticket attached to the roll in accordance with MIL-P-43334.

3.9 Fiber identification. Each roll of webbing shall be labeled or ticketed for fiber content in accordance with the Textile Fiber Products Identification Act.

3.10 Workmanship. The finished webbing shall conform to the quality and grade of product established by this specification and the occurrence of defects shall not exceed the applicable acceptable quality levels.

4. QUALITY ASSURANCE

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless otherwise disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in this specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items shall meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material.

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4.1.2 Certificates of compliance. When certificates of compliance are submitted, the Government reserves the right to inspect such items to determine the validity of the certification.

4.2 Classification of inspections. The inspection requirements specified herein are classified as follows:

- a. First article inspection (see 4.3).
- b. Quality conformance inspection (see 4.4).

4.3 First article inspection. When a first article is required (see 3.1 and 6.2), it shall be examined for the defects specified in 4.4.2.1 through 4.4.2.3 and tested for the characteristics specified in 4.4.3.

4.4 Quality conformance inspection. Unless otherwise specified, sampling for inspection shall be performed in accordance with MIL-STD-105.

4.4.1 Component and material inspection. In accordance with 4.1, components and materials shall be inspected in accordance with all the requirements of referenced documents unless otherwise excluded, amended, modified, or qualified in this specification or applicable purchase document.

4.4.2 End item examination.

4.4.2.1 Yard-by-yard examination. The webbing shall be examined on both sides for the defects listed in table III. All defects found shall be counted regardless of their proximity to each other except where two or more defects represent a single local condition, in which case only the more serious defect shall be counted. A continuous defect shall be counted as one defect for each warpwise yard or fraction thereof in which it occurs. The lot size shall be expressed in yards. The sample unit shall be 1 linear yard. The inspection level shall be II and the acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 0.40 for major defects and 1.5 for total (major and minor combined) defects. The number of rolls from which the sample yardage is to be selected shall be in accordance with table IV. The sample yardage shall be apportioned equally among the selected rolls.

TABLE III. End item visual defects

Examine	Defect	Classification	
		Major	Minor
Construction and workmanship	Abrasion mark - resulting in a weak place	101	
	Broken or missing end or pick:		
	Two or more contiguous	102	
	Single		201

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TABLE III. End item visual defects (cont'd)

Examine	Defect	Classification	
		Major	Minor
Construction and workmanship (cont'd)	Any cut, hole, or tear	103	
	Fine or light filling bar	104	
	Fine yarn or drop ply - less than 1/2 the thickness of the normal yarn		202
	Float:		
	Multiple, more than 1/2 inch in combined filling directions	105	
	Multiple, 1/2 inch or less in combined warp and filling directions		203
	Single, more than 1/2 inch in length		204
	Heavy filling bar or heavy place <u>1</u> /		205
	Knot on surface or partially exposed <u>1</u> /		206
	Slack or tight end or ends <u>1</u> /		207
	Slug, slub, jerked-in-filling, or slough-off - more than three times the thickness of normal yarn		208
	Smash	106	
	Weak or soft spot	107	
	Wrong draw - more than 9 inches in length		209
	Spot, stain, or streak <u>1</u> /		210
	Edges:		
	Cut frayed or torn	108	
	Slack or poorly constructed	109	
	Width beyond specified tolerances		211
	Dropped knitted stitch on edge (shuttleless looms only)	110	
	Catch-cord missing (shuttleless looms only)	111	
	Twisted or wavy, will not lay flat upon application of manual pressure <u>2</u> /	112	

1/ Clearly visible at normal inspection distance (approximately 3 feet).

2/ A 3-yard length of webbing shall be laid on a flat and smooth surface without tension. If the webbing does not lie flat or if the webbing is wavy or ridgy, it shall be counted as a defect.

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TABLE IV. Sample size

Lot size in yards	Sample size in rolls <u>1/</u>	Acceptance number
1,200 or less	3	0
1,201 up to and including 3,200	5	0
3,201 up to and including 10,000	8	0
10,001 up to and including 35,000	13	0
35,001 up to and including 150,000	20	1
150,001 and over	32	2

1/ If a lot contains fewer than three rolls, each roll in the lot shall be examined.

4.4.2.2 Overall examination. The webbing shall be examined for the defects listed below. Each defect listed shall be counted not more than once in each roll examined. The sample size shall be the applicable number of rolls indicated in table IV. Each roll in the sample shall be examined over its entire length. The lot shall be rejected if the total number of defects in the sample exceeds the applicable acceptance number specified in table IV.

Defect

Poorly constructed - Not firmly and tightly woven
 Solvent odor
 Catch-cord end not locked (shuttleless looms only)
 Overall uncleanness
 Uneven application of treatment
 Not completely dry
 Clearly noticeable crystallization of mildew inhibitor
 Not labeled in accordance with Textile Fiber Products
 Identification Act

4.4.2.3 Length examination. During the overall examination, each roll in the sample shall be examined for the defects listed below. If the total number of length defects in the sample exceeds the applicable acceptance number specified in table IV, the lot shall be rejected. In addition, the lot shall be rejected if the total of the actual gross lengths of all the rolls in the sample is less than the total of the gross lengths marked on the roll labels.

Length defects

Gross length is more than 2 yards less than the gross length marked on the roll label
 Gross length less than specified minimum length or more than specified maximum length

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Any individual piece of webbing is less than 10 yards in length
Any roll containing more than three pieces

4.4.3 End item testing. The end item shall be tested for the characteristics listed in table V. The methods of testing specified in FED-STD-191 wherever applicable and as listed in table V shall be followed. Except for the elongation test, the physical and chemical values specified in section 3 apply to the results of the determination made on a sample unit for test purposes as specified in the applicable test methods. All test reports shall contain the individual values utilized in expressing the final result. The sample size shall be as follows:

<u>Lot size (yards)</u>	<u>Sample size</u>
800 or less	2
801 up to and including 22,000	3
22,001 and over	5

The lot size shall be expressed in units of 1 linear yard each. The sample unit for testing shall be as follows:

All types - 17 continuous yards of finished treated webbing.

All types - 1 continuous yard of webbing (prior to treatment).

The lot shall be unacceptable if one or more sample units fail to meet any requirement specified other than the elongation requirement. For the elongation requirement, the lot average of all the sample units in the sample shall apply and the lot shall be unacceptable if the lot average value exceeds the maximum requirement. When the data in the "number of determinations per sample unit" and the "results reported as" columns are not specified in the following table they shall be as required by the referenced test method.

TABLE V. End item tests

Characteristics	Requirement paragraph	Test method	Number of determinations per sample unit	Results reported as
Cotton yarn identification	3.2.1	1200 <u>1/</u>	-	-
Yarn size and ply	3.2.1 and 3.4	<u>1/</u>	-	-
Nylon yarn identification	3.2.2	1530 <u>1/</u>		

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TABLE V. End item tests (cont'd)

Characteristics	Requirement paragraph	Test method	Number of determinations per sample unit	Results reported as
Nylon denier	3.2.2	4021 <u>1</u> /	-	-
Weave	3.4 and 3.5	Visual	1	Pass or fail
Weight	3.4	5040	1	To the nearest 0.1 oz.
Texture:				
Warp yarns				
Body	3.4	5050	-	-
Edges	3.4	5050	-	-
Stuffer	3.4	5050	-	-
Binder	3.4	5050	-	-
Filling yarns	3.4	5050	-	-
Tenacity (stuffer yarn)	3.4	4100 <u>1</u> /	-	-
Breaking strength	3.4	4108 <u>2</u> /	-	-
Elongation	3.4	4108 <u>2</u> / <u>3</u> /	-	-
Curvature	3.5.1	4.5.1	5	To the nearest 1/32 inch
Nonfibrous materials content	3.6.2	2611	-	-
Water repellent material	3.6.3	<u>1</u> /	-	-
Water repellency	3.6.3	4500	-	-
Copper content	3.6.4	2050 <u>4</u> /	-	-
pH	3.6.5	2811	-	-

1/ Unless otherwise specified, a certificate of compliance shall be submitted and will be acceptable for the stated requirement.

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- 2/ For type I, flat surface clamps may be used. For types II and III, split drum type jaws shall be used. During the breaking strength test, it shall be observed whether the nonconventional edge of the shuttleless loom webbing ruptures prior to the body of the webbing. When the edge ruptures at a breaking strength value less than the minimum requirement specified, the webbing shall be rejected.
- 3/ An initial load of 6 pounds evenly distributed across the width of the webbing shall be applied. The initial distance for elongation determination shall be measured after the initial pretension load of 6 pounds has been applied. Other methods of determining elongation producing equal results shall be permitted.
- 4/ The contractor shall certify that only copper 8-quinolinolate was used in the treatment of the webbing and that the process was either solubilized or dispersed and not a combination of both, and that any petroleum fractions, oils, or resins are of nonoxidizing type and free of other compounds, naphthenic acid and its salts.

4.4.4 Packaging inspection. The sampling and inspection of the preservation, packaging, palletization, and marking shall be in accordance with the requirements of MIL-P-43334.

4.5 Methods of inspection.

4.5.1 Measurement of lateral curve test.

4.5.1.1 Test specimen. The test specimen shall be a length of webbing, full width, measuring a minimum of 40 inches. The specimen shall not be stretched, smoothed, or otherwise changed from its original condition prior to testing.

4.5.1.2 Number of determinations. Five specimens shall be tested from each sample unit and averaged.

4.5.1.3 Apparatus.

Plexiglass or equal - plexiglass weighing approximately 35 ounces with dimensions of 45 inches by 5 inches by 1/4 inch

Straight edge - a rigid straight edge measuring 36 inches in length

Roller - a roller one inch in diameter and weighing 1-1/2 pounds

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4.5.1.4 Procedure. The specimens shall be placed flat, on a smooth, horizontal flat surface without tension and allowed to reach moisture equilibrium as defined in section 4 of FED-STD-191. After equilibrium is reached, a weight shall be placed at one end of the webbing. The roller shall be placed on the specimen at the end of the webbing where the weight is located. The specimen should be approximately in the center of the roller. The roller shall be rolled along the length of the specimen, care being taken to keep the specimen in the center of the roller and not to exert any pressure on the roller. When the roller has passed the length of the webbing, the plexiglass shall then be placed on the specimen for a period of 1 hour.

Without moving the plexiglass on the specimen, the straight edge shall be placed on the plexiglass so that both ends of the straight edge are aligned perpendicularly with the outermost edge of the specimen. Determine the highest degree of curvature of the specimen from the straight edge by measuring to the nearest 1/32 of an inch perpendicularly from the straight edge. Record the highest measure (see figure 7).

4.5.1.5 Report. The average of five determinations from each sample unit shall be taken.

5. PACKAGING

5.1 Packaging. Packaging shall be level A or C as specified (see 6.2).

5.1.1 Levels A and C. Webbing, put up as specified, shall be packaged in accordance with the applicable requirements of MIL-P-43334.

5.2 Packing. Packing shall be level A, B, or C as specified (see 6.2).

5.2.1 Levels A, B, and C. Webbing shall be packed in accordance with the applicable requirements of MIL-P-43334.

5.3 Palletization. When specified (see 6.2), the webbing shall be packed as specified in 5.2, shall be palletized in accordance with MIL-P-43334.

5.4 Marking. In addition to any special marking required by the contract or purchase order, shipment shall be marked in accordance with MIL-P-43334.

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. The webbing is intended for use as framing in the manufacturing of tents and liners requiring low elongation webbing.

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6.2 Acquisition requirements. Acquisition documents must specify the following:

- a. Title, number, and date of this specification.
- b. Type required (see 1.2).
- c. Issue of DODISS to be cited in the solicitation, and if required the specific issue of individual documents referenced (see 2.1.1).
- d. When a first article is required (see 3.1, 4.3, and 6.3).
- e. When length of rolls is other than specified (see 3.7).
- f. Levels of preservation and packing (see 5.1 and 5.2).
- g. When palletization is required (see 5.3).

6.3 First article. When a first article is required, it shall be inspected and approved under the appropriate provisions of Federal Acquisition Regulation (FAR) 52.209. The first article should be a preproduction sample. The contracting officer should specify the appropriate type of first article and the number of units to be furnished. The contracting officer should also include specific instructions in acquisition documents regarding arrangements for selection, inspection, and approval of the first article.

6.4 Sample. For access to samples, address the contracting activity issuing the invitation for bids or request for proposal.

6.5 Mildew inhibitors. The mildew inhibiting agent specified herein was selected after lengthy and more severe tests than those set forth in the specification. These tests include the ability of the mildew inhibiting agents to protect against mildew after lengthy weathering exposure. The specified tests are only for the purpose of determining whether these treatments have been applied properly and are not to be considered as performance tests for the evaluation of the effectiveness of the mildew inhibiting treatment.

6.6 Subject term (key word) listing.

Cotton yarn
Low elongation
Mildew resistant
Natural
Water repellent

6.7 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

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Custodians:

Army - GL
Navy - SA

Review activity:

Army - MD

User activity:

Navy - YD

Preparing activity:

Army - GL

(Project 8305-0347)

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Figure 1 - Type I

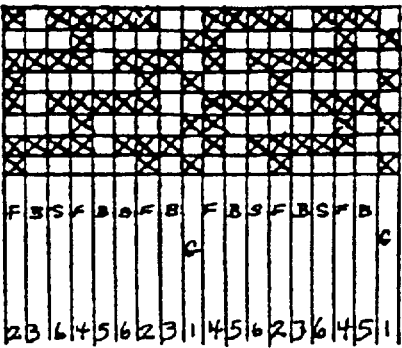


Figure 2 - Type II

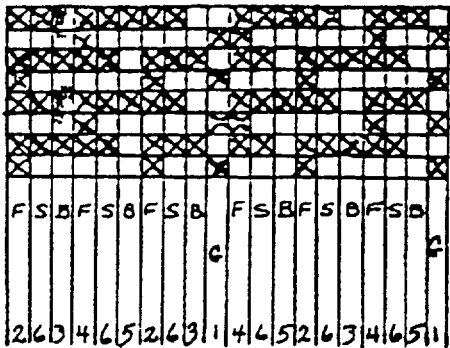
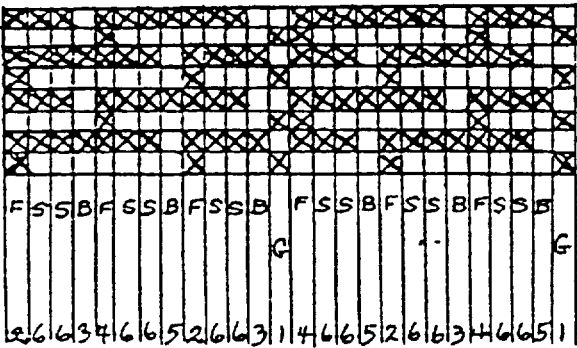
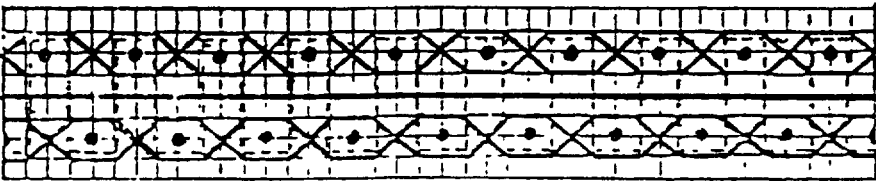


Figure 3 - Type III



F = Face warp
B = Back warp
S = Stuffer warp
G = Binder warp

• Filling Cross Section - Types I, II & III Plain Weave



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Figure 4
Catch-Cord Diagram

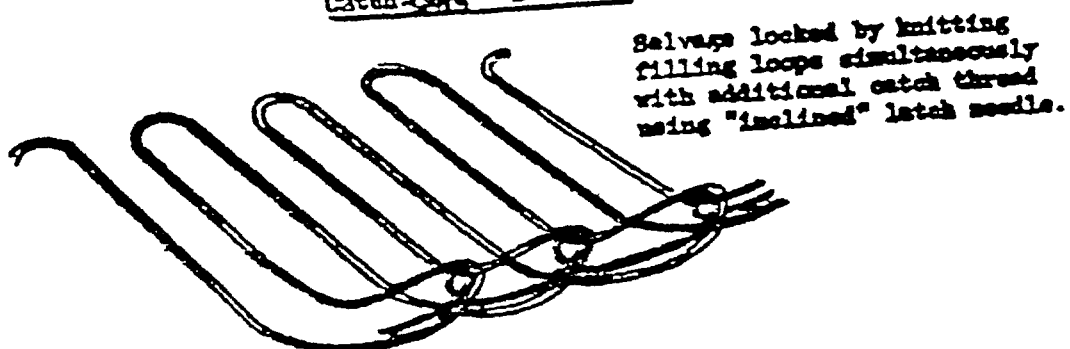
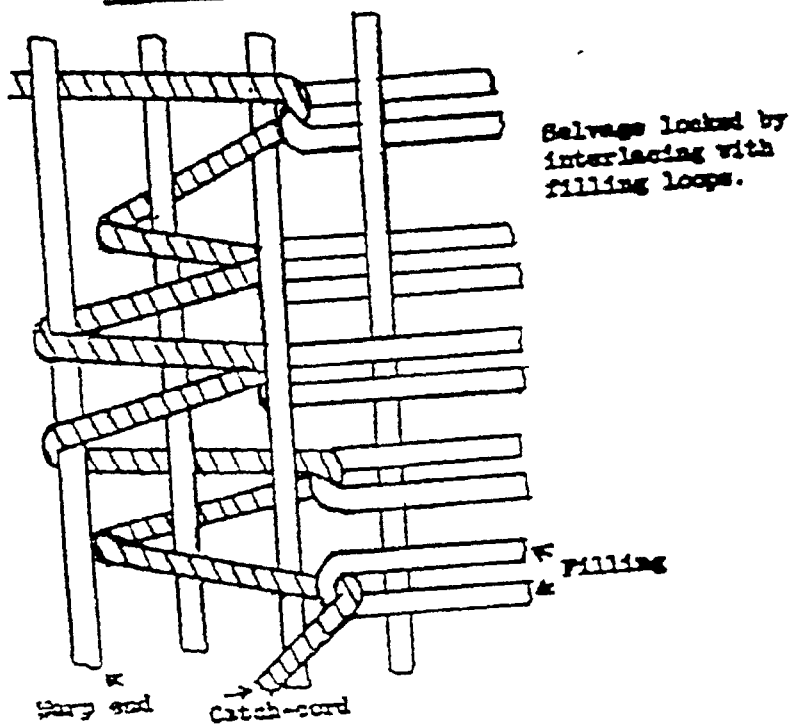
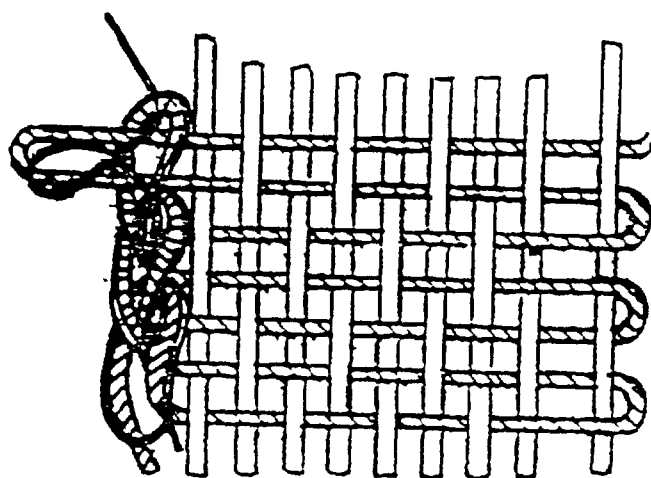


Figure 5
Catch-Cord Diagram



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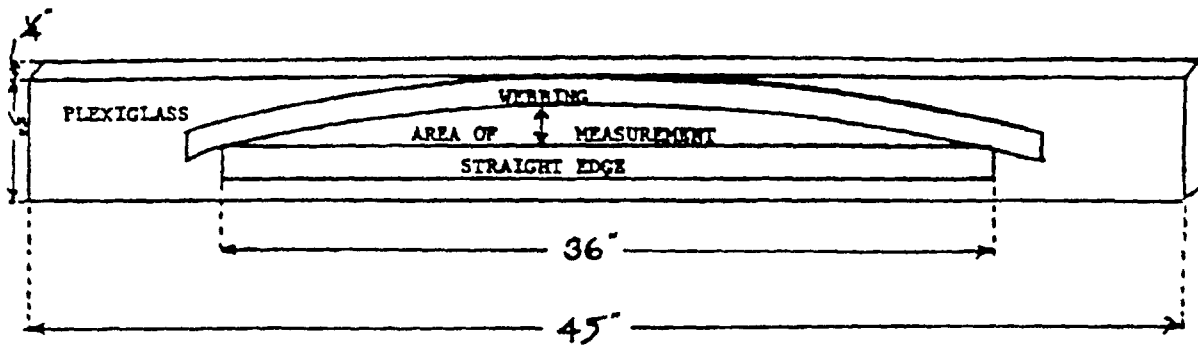
Figure 6
Catch-Cord Diagram



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Figure 7

Diagram Curvature Measurement



STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

1. RECOMMEND A CHANGE:		1. DOCUMENT NUMBER MIL-W-43638E	2. DOCUMENT DATE (YYMMDD) 1991 May 17
3. DOCUMENT TITLE WEBBING, TEXTILE, WOVEN, FOR TENT FRAMING			
4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)			
5. REASON FOR RECOMMENDATION			
6. SUBMITTER			
a. NAME (Last, First, Middle Initial)		b. ORGANIZATION	
c. ADDRESS (Include Zip Code)		d. TELEPHONE (Include Area Code) (1) Commercial (2) AUTOVON (If applicable)	7. DATE SUBMITTED (YYMMDD)
8. PREPARING ACTIVITY			
a. NAME U.S. Army Natick RD&E Center		b. TELEPHONE (Include Area Code) (1) Commercial 508-651-4532 (2) AUTOVON 256-4532	
c. ADDRESS (Include Zip Code) Commander, U.S. Army Natick RD&E Center ATTN. STRNC-IRT Natick, MA 01760-5019		IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340	