

**INCH-POUND**

**MIL-DTL-32063  
15 March, 2000**

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**SUPERSEDING  
K-P-146E  
13 February 1979**

## DETAILED SPECIFICATION

### TARPAULINS, COTTON OR POLYESTER, FWWMR

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

#### 1. SCOPE

1.1 Scope. This specification covers uncoated cotton duck tarpaulins (see 6.1).

1.2 Classification.

1.2.1 Types. (see 6.2).

- Type I - With loops
- Type II - With grommets and tie ropes

1.2.2 Classes and sizes. (see 6.3).

**Beneficial comments (recommendations, additions, deletions, clarifications) and any pertinent data which may be of use in improving this document should be addressed to: Defense Supply Center Philadelphia, Clothing and Textiles Directorate, Attn: DSCP-CNR, 700 Robbins Ave., Philadelphia, PA 19111-5096 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.**

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Class 1 – Cloth, duck, cotton, No. 6 hard texture, Camouflage Green 483.

### Size

5 feet by 5 feet  
10 feet by 6 feet  
12 feet by 10 feet  
17 feet by 12 feet  
20 feet by 20 feet  
23 feet by 15 feet  
26 feet by 22 feet  
40 feet by 20 feet

Class 2 – Cloth, duck, cotton, No. 6 hard texture, deck gray Navy shade 3104.

### Size

8 feet by 8 feet  
15 feet by 15 feet  
20 feet by 20 feet

Class 3 – Cloth, duck, cotton, No. 10 hard texture, unbleached.

### Size

7 feet by 15 feet  
7 feet by 16 feet  
7 feet by 18 feet  
16 feet by 16 feet

Class 4 – Cloth, duck, cotton, No. 6 hard texture, Desert Tan 459.

### Size

5 feet by 5 feet  
10 feet by 6 feet  
12 feet by 10 feet  
17 feet by 12 feet  
20 feet by 20 feet  
23 feet by 15 feet  
26 feet by 22 feet  
40 feet by 20 feet

## 2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3 and 4 of this specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements documents cited in sections 3 and 4 of this specification, whether or not they are listed.

### 2.2 Government documents.

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2.2.1 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).

**SPECIFICATIONS****FEDERAL**

A-A-1451	- Twine, Fibrous
V-T-285	- Thread, Polyester
T-R-605	- Rope, Manila and Sisal
T-T-616	- Treatment: Mildew Resistant, for Rope and Cord
TT-P-595	- Preservative Coating, Canvas
CCC-C-419	- Cloth, Duck, Cotton, Unbleached, Plied – Yarns, Army and Numbered
CCC-C-428	- Cloth, Duck, Cotton, Fire, Water, Weather and Mildew Resistant
DDD-L-20	- Label: For Clothing, Equipage and Tentage (General Use)

**MILITARY**

MIL-W-530	- Webbing, Textile, Cotton, General Purpose
MIL-G-16491	- Grommet, Metallic
MIL-PRF-20696	- Cloth, Waterproof, Weather Resistant

**STANDARDS****FEDERAL**

FED-STD-595	- Colors Used in Government Procurements
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(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Document Automation and Production Service, Bldg. 4D (DPM-DODSSP), 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.2.2 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.

**DRAWINGS****U.S. ARMY SOLDIER BIOLOGICAL CHEMICAL COMMAND**

5-10-9 - Tarpaulins: Duck, Cotton: FWWMR

(Copies of drawings are available from the U. S. Army Biological Chemical Command, ATTN: AMSSB-REO-S(N), NATICK, MA 01760-5017.)

Department of the Army Field Manual FM 10-16 – General Repair of Tents, Canvas and Webbing

(Applications for copies should be addressed to the Superintendent of Documents, US Government Printing Office, Washington, DC 20402)

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2.3 Non-Government publications. The following document(s) form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS are the issues of the documents cited in the solicitation (see 6.2).

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM-D-6193 - Standard Practice for Stitches and Seams

(Applications for copies of referenced documents should be addressed to the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19426-2959.)

2.4 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification takes precedence. Nothing in this specification, 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 4.2 and 6.2).

#### 3.2 Materials and components.

##### 3.2.1 Cloth.

3.2.1.1 Cloth, Duck, Cotton Camouflage Green 483. Cloth for the class 1 tarpaulins shall be type I, No. 6, hard texture duck of CCC-C-419, finished to conform to type I, class 1 of CCC-C-428. As an alternate, the cloth for class 1 tarpaulins shall be type 2, 4 or 5, Class 2 or 3 of MIL-PRF-20696. The color of the cloth shall be camouflage green 483 conforming to color chip 34094 of FED-STD-595.

3.2.1.2 Cloth, Duck, Cotton Deck Gray Navy shade 3104. Cloth for the class 2 tarpaulins shall be type I, No. 6, hard texture duck of CCC-C-419, finished to conform to type I, class 1 of CCC-C-428. As an alternate, the cloth for class 2 tarpaulins shall be type 2, 3 or 5, Class 2 or 3 of MIL-PRF-20696. The color of the cloth shall be deck gray navy shade 3104.

3.2.1.3 Cloth, Duck, Cotton, unbleached. Cloth for the class 3 tarpaulins shall be type I, No. 10, hard texture duck of CCC-C-419, except for weight which shall be 12.5 oz/yd<sup>2</sup> minimum and 14.35 oz/yd<sup>2</sup> maximum. Air permeability requirements shall not be applicable. The unbleached cloth shall be finished to conform to class 1 of CCC-C-428, except that the flexibility requirements shall not apply.

3.2.1.4 Cloth, Duck, Cotton. Cloth for the class 4 tarpaulins shall be type I, No. 6, hard texture duck of CCC-C-419, finished to conform to type I, class 1 of CCC-C-428. As an

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alternate, the cloth for class 4 tarpaulins shall be type 2, 4 or 5, Class 2 or 3 of MIL-PRF-20696. The color of the cloth shall be Desert Tan 459.

3.2.2. Webbing, cotton. Webbing shall conform to type III, class 4, 1 inch width of MIL-W-530. The color shall be camouflage green 483 conforming to color chip 34094 of FED-STD-595 for class 1 tarpaulins, deck gray Navy shade 3104 for class 2 tarpaulins and dyed shade 459 Desert Tan for class 4 tarpaulins. When type I, class 3 tarpaulins are required, webbing shall conform to type III, class 1 of MIL-W-530.

3.2.3 Thread, polyester. Thread shall conform to type I, class 1, subclass B of V-T-285. Thread size shall be as follows:

- a. For all stitching except zig-zag stitching and stitching indicated by “Z” on drawings size FF for needle and bobbin.
- b. For zig-zag stitching, size F for needle and bobbin.
- c. For stitching indicated by “Z” on drawing size FF for needle and size F for looper.

3.2.3.1 Color and treatment. Thread for the class 2 and 3 tarpaulins shall be natural color. The color of the thread for the class 1 tarpaulins shall be camouflage green 483 conforming to color chip 34094 of FED-STD-595. Thread for the class 4 tarpaulins shall be dyed Desert Tan 459. The dyed thread shall show colorfastness to weathering equal to or better than the standard sample (see 6.3). When no standard shade sample is available, the dyed thread shall show good colorfastness to weathering.

3.2.4 Twine, cotton. Twine shall be 5-ply of A-A-1451.

3.2.5 Rope, manila. Rope shall conform to type M, class 2 of T-R-605, 1/1/8 inch circumference, mildew resistant treated in accordance with T-T-616.

3.2.6 Grommet, metallic. Grommets shall conform to type III, class 3, size Nos. 0, 1, 3, 4 and 5 of MIL-G-16491.

3.3 Construction. Construction shall conform to drawing 5-10-9 and as specified herein.

3.3.1 Stitching, machine.

3.3.1.1 Types. All stitch types, except bartacking, shall conform to ASTM-D-6193 as follows:

- a. For all stitching except zig-zag stitching and stitching indicated by “Z” on drawings – type 301, 5 to 7 stitches per inch.
- b. For zig-zag stitching - type 304, 12 to 16 stitches per inch.
- c. For stitching indicated by “Z” on drawings fasteners – type 401, 5 to 7 stitches per inch.

3.3.1.2 Thread breaks. Thread breaks in stitching shall be overstitched not less than 1 inch at each break on stitch type 301, not less than ¾ inch at each break on stitch type 304 and not less

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than 1 ½ inches at each break on stitch type 401. Thread breaks in type 401 stitching may be overstitched with stitch type 301.

3.3.1.3 Stitching ends. The ends of 301 stitching shall be overstitched not less than 1 inch except where ends are turned under in a hem or held down by other stitching. Where 301 stitching is performed automatically on stitch patterns such as box, box with cross-stitch, “W” stitching or straight line tacking, not less than three tying, overlapping, or back stitches shall be used to secure the ends of stitching. The ends of type 304 stitching shall be firmly secured by backstitching or overstitching or by increasing the number of stitches per inch at the ends for a minimum of ¼ inch.

3.3.1.4 Skipped stitches. Two or more consecutively skipped stitches occurring in type 301 or 304 stitching shall be overstitched not less than 1 inch. Any skipped stitches in type 401 stitching shall be overstitched not less than 1 ½ inches. Skipped stitches in 401 stitching may be overstitched with type 301 stitching.

3.3.1.5 Thread lubricant. The addition of any lubricant to the polyester sewing thread prior to or during the sewing operation is prohibited.

3.3.1.6 Stitching margins. All stitching margins shall be  $1/8 \pm 1/16$  inch.

3.3.2 Setting of grommets, (type II tarpaulins). Holes punched to receive grommets shall be smaller than the outside diameter of the grommet barrel so that the barrel must be forced through the hole. Grommets shall be securely clinched without cutting the materials. Roll of the clinched grommet shall not contain more than three scores (splits).

3.3.3 Tie ropes, (type II tarpaulins). The tie ropes shall be constructed of the material specified in 3.2.5. Eye splices shall have three tucks and the ends of all strands shall be clipped to a length of not less than 1 inch nor more than 1 ¼ inches. The size of the eye shall be as specified on the drawing and shall be the measurement of the inside of the loop when stretched taut.

3.3.4 Wicking of sewing thread (cup test). There shall be no dripping of water through the panel lap seam stitching when the tarpaulin is tested as specified in 4.4.5. Seepage or leakage of water at a few points caused by hydrostatic pressure through needle holes or between plies of a lap seam shall not be scored as a failure. The seam leakage test is intended to insure that nonwicking thread has been utilized and that no lubrication has been added to the polyester thread prior to or during the sewing operation.

3.3.5 Repairs. All necessary repairs shall be effected in accordance with Department of the Army Field Manual FM 10-16, except that hand-sewn patches or cemented patches will not be acceptable. Repairs required as a result of failure of the cup test and when authorized by the contracting officer shall be performed with a suitable adhesive (see 6.5).

3.4 Marking. All markings and labels shall conform to Type IV, class 8 of DDD-L-20.

3.4.1 Special marking. The letters “US” shall conform to type IV, class 9 in the size characters and locations shown on the drawings. Class 9 markings shall be clearly legible after subjection to accelerated weathering.

3.4.2 Workmanship. Cloth components shall be clean and free of holes, cuts, tears, or cloth defects such as multiple floats, broken or missing yarns, or areas untreated with compound. Webbing shall not have frayed or scalloped edges and rope components shall be free of cuts or breaks. Thread tension shall be maintained so that there will be no loose stitching, and seam allowances shall be maintained with seams properly sewn so that no run-offs, twists, pleats or

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open seams shall result. Care shall be taken in sewing to see that no needle chews occur. All thread ends shall be trimmed to ½ inch or less. Metal components shall be free of burrs, sharp edges and corroded areas and shall not be broken or malformed.

3.5 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

**4. VERIFICATION**

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

- a. First article inspection (see 4.2).
- b. Conformance inspection (see 4.3).

4.2 First article inspection. When a first article is required (see 6.2) it shall be examined for the defects listed in 4.4.3 and tested as specified in 4.5.1. The presence of any defect or failure of any test shall be cause for rejection of the first article.

4.3 Conformance inspection. Sampling for inspection shall be as specified in the contract or purchase order.

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 In-process inspection. Inspection shall be made to determine that the following are as specified:

- a. There shall be no lubrication of polyester thread prior to or during sewing operations for compliance with 3.3.1.5.
- b. Holes punched to receive grommets are in compliance with 3.3.2.

Whenever nonconformance is noted, correction shall be made to the items affected and the process.

4.4.3 End item visual examination. The end item shall be examined for the defects listed in Table I. The lot size shall be expressed in units of completely fabricated tarpaulins. The sample unit shall be one tarpaulin. The inspection level shall be I.

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TABLE I. Defects

Examine	Defect	Classification	
		Major	Minor A      B
Cloth	Cut, tear, or hole (including exposed drill hole) greater than 1/8 inch in length or diameter:	101	
	1/8 inch or less in length or diameter:		
	- more than 10 holes:	102	
	- more than 5 but not more than 10 holes:		201
	- 5 holes or less		301
Webbing	Broken or missing yarn; multiple floats clearly visible at normal inspection distance, (approximately 3 feet)		202
	Edge frayed or scalloped		302
	Cut or tear		303
Rope components	Any cut or break		203
	Eye splice omitted		204
	Eye splice not as specified		304
	Free end not finished as specified		305
Seams & stitching	Open seam on stitch type 301:		
	- for more than 1/4 inch but not more than 1 inch		306
	- for more than 1 inch		205
	Open seam on stitch type 401:		
- one row of stitching open for 1 inch or less		307	
- one row of stitching open for more than 1 inch		206	
Seams & stitching	- Both rows of stitching open (not necessarily at the same location):		
	- on intermediate section	103	
	- on end section or cover		207
	Note: A seam shall be classified as open when one or more stitches joining a seam are broken, or when one or more skipped or run-off stitches occur. On double stitched seams, a seam shall be classified as open when either one or both sides of a seam are open.		
	Raw edges caught in stitching:		
	- more than 1 inch but not more than 3 inches		308
	- more than 3 inches		208



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TABLE I. Defects (continued)

Examine	Defect	Classification	
		Major	Minor A B
	Thread breaks:		
	- overstitched less than 1 ½ inches on stitch type 401		309
	- overstitched less than 1 inch on stitch type 301		310
	- overstitched less than ¾ inch on stitch type 304		311
	Note: Thread breaks not overstitched shall be classified as open seams.		
	Skipped stitches:		
	- overstitched less than 1 ½ inches on stitch type 401		312
	- overstitched less than 1 inch on stitch type 301 or 304 (when 2 or more skipped stitches occur consecutively)		313
	Note: Skipped stitches not overstitched shall be classified as open seams.		
	Needle chews resulting in cut, tear, or hole (see cloth defects for cut, tear or hole)		
	One or more required rows of stitching omitted (except on boxstitching)	104	
Boxstitching	Incomplete:		
	- one row of stitching omitted		209
	- two or more rows of stitching omitted	105	
	Less than specified length by more than 1/8 inch		314
Bartacking	Less than specified length by more than 1/8 inch		315
	Width less than 1/8 inch		210
Stitching ends	Overstitched less than 1 inch on stitch type 301 (except where ends are held down by other stitching, turned under in a hem, or where stitching is performed automatically)		211
	Secured with less than three tying, overlapping or back stitches when automatic stitching is performed		212
	Secured with less than ¼ inch of backstitching, overstitching or an increased number of stitches per inch at the end of stitch type 304		316
Seams	Pleated		213

**MIL-DTL-32063**TABLE I. Defects (continued)

Examine	Defect	Classification	
		Major	Minor A      B
Seam type	Wrong seam type	106	
Stitch type	Wrong stitch type	107	
Stitch tension	Loose, resulting in an exposed bobbin or top thread for more than 6 inches		214
	Tight, as evidenced by puckering on fabric, for more than 6 inches		215
Stitches/inch	Less than the minimum specified (except on panel joining seams):		
	- one stitch		317
	- two or more stitches		216
	Less than the minimum specified on panel joining seams: More than the maximum specified:		
	- one stitch		318
	- two or more stitches		217
Note:	Variation in the number of stitches per inch caused by the operator speeding up the machine and pulling the fabric in order to sew over heavy places or heavy seams or in turning corners shall be classified as follows:		
	a. With the minor "B" defect classification		
	- no defect		
	b. With the minor "A" defect classification		
	- minor "B" defect		
Stitching gage	Not as specified		319
Stitching margin	Larger than specified by more than 3/16 inch:		
	- for more than 2 inches but not more than 4 inches in length		320
	- for more than 4 inches in length		218
	Less than specified:		
	- for more than 2 inches but not more than 4 inches in length		321
	- for more than 4 inches in length		219
Components & assembly	Any component or part omitted, not assembled or fabricated of applicable reference material	108	
Hems	Constructed with partial turnunder when double turnunder is required		220
	Twisted or pleated		322
Panel	Adjacent panels spliced; number of splices		

**MIL-DTL-32063**TABLE I. Defects (continued)

Examine	Defect	Classification	
		Major	Minor A B
	more than specified; spliced pieces not joined as shown on drawing		221
Mends, darns or patches	Repairs not in accordance with Department of the Army Field Manual FM 10-16 or not authorized by the contracting officer (see 3.3.5)	109	
Grommets	Broken	110	
	Malformed		
	- fails to perform intended function	111	
	- but will perform intended function		222
	Corroded area		323
	Burr or sharp edge which may cause injury in handling or damage to cloth	112	
	Improperly set, two or more teeth exposed		
	(except where a grommet is set as specified but is in an area of uneven thickness which prevents uniform clinching)		324
	Clinched loosely, allowing grommet to rotate around hole		325
	Clinched excessively tight (i.e., cutting cloth)		223
Insecurely clinched (i.e., grommets or washers become disengaged)		224	
Set with barrel inserted from outside instead of inside:		326	
Roll of a grommet contains more than three scores (splits)		327	
General	Any other construction detail not performed as specified		225
Marking & labels	Omitted, incorrect, illegible, or misplaced		328
Cleanness	Grease or oil stains		329
	Thread ends not trimmed to 1/2 inch or less		330

4.4.4 End item dimensional examination. Dimensional examination of the completely fabricated tarpaulin shall be made and any dimension not within the specified tolerance shall be classified as a defect. The inspection level for Table I defects shall be II and the inspection level for dimensional defects shall be S-3.

4.4.5 End item testing. The completely fabricated tarpaulin shall be tested as specified in 4.5.1 for compliance with 3.3.4. The lot shall be expressed in units of completely fabricated tarpaulins. The sample unit shall be one completely fabricated tarpaulin. The inspection level shall be S-3. Failure in any area shall be cause for rejection of the lot.

4.4.6 Packaging examination. The fully packaged end items shall be examined for marking, materials, workmanship and content defects.

**MIL-DTL-32063****4.5 Methods of inspection.**

4.5.1 Wicking of sewing thread (cup test). The tarpaulin shall be tested in one area on a panel lap seam.

4.5.1.1 Procedure. Suspend the seamed section of the test fabric in the center of a  $6 \pm 1/8$  inch diameter hoop and form a depression with the seamed fabric in the hoop to a depth of  $1 \pm 1/4$  inch. Slowly pour 500 ml of water at  $77^\circ \pm 4^\circ\text{F}$  into the cupped area (depression) and observe the under surface of the fabric for water penetration. Any wicking of water along the sewing thread, identified by a discoloration or darkening of the thread within 5 minutes after water is poured shall constitute a failure. Water leakage through the needle holes or between the plies of the lapped seam fabric shall not be considered a failure.

**5. PACKAGING**

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of materiel is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department or Defense Agency, or within the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

**6. NOTES**

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

6.1 Intended use. Classes 1, 2 and 4 tarpaulins are for heavy-duty cover, construction and general marine service use. Class 3 tarpaulins are for light-duty general tarpaulin use and for use where weight is a factor when transported by personnel.

6.2 Acquisition requirements. Acquisition documents must specify the following:

- a. Title, number, and date of this specification.
- b. Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1.1 and 2.2).
- c. When first article is required (see 3.1, 4.2 and 6.4).
- d. Levels of preservation and packing (see 5.1).

6.3 Sample. For access to standard sample, address the contracting activity issuing the invitation for bids.

6.4 First article. When a first article is required, it will be inspected and approved under the appropriate provisions of 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 include specific instructions in all acquisition instruments regarding arrangements for selection, inspection, and approval of the first article.

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\*6.5. Seams to be treated. Seams that have failed the test specified in 4.5.1 should be treated as follows:

- a. Failure of panel lap seam – treat all panel lap seams.

6.6 Uncoated tarpaulins. For purpose of this specification, uncoated tarpaulins are defined as those whose surfaces are not coated with natural or synthetic rubber, resins or other sealing compounds.

6.7 Subject term (key word) listing.  
Cover, protective

Custodians:  
Army - GL  
Navy – NU  
Air Force – 99

Preparing activity  
DLA-CT

Review activities:  
Army – MD  
Navy – MC  
Air Force – 11.6

Project No: 8340-0575

**MIL-DTL-32063****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 and send to preparing activity.
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.

<b>I RECOMMEND A CHANGE:</b>	<b>1. DOCUMENT NUMBER</b>	<b>2. DOCUMENT DATE (YYYYMMDD)</b>
	MIL-DTL-32063	2000/03/15

<b>3. DOCUMENT TITLE</b> TARPAULINS, COTTON OR POLYESTER, FWWMR
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<b>4. NATURE OF CHANGE</b> <i>(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)</i>

<b>5. REASON FOR RECOMMENDATION</b>

<b>6. SUBMITTER</b>		
a. NAME <i>(Last, First, Middle Initial)</i>	b. ORGANIZATION	
c. ADDRESS <i>(Include Zip Code)</i>	d. TELEPHONE <i>(Include Area Code)</i> (1) Commercial  (2) DSN <i>(If applicable)</i>	7. DATE SUBMITTED (YYYYMMDD)

<b>8. PREPARING ACTIVITY</b>	
a. NAME DEFENSE SUPPLY CENTER PHILADELPHIA DSCP-CNRP	b. TELEPHONE <i>(Include Area Code)</i> (1) Commercial (2) DSN  (215) 737-3290 444-3290
c. ADDRESS <i>(Include Zip Code)</i> 700 Robbins Ave (Bldg 6, C&T) PHILADELPHIA, PA 19111-5092	<b>IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:</b> Defense Standardization Program Office (DLSC-LM) 8725 John J. Kingman Road, Suite 2533 Fort Belvoir, Virginia 22060-6221 Telephone (703) 767-6888 DSN 427-6888

**DD Form 1426, FEB 1999 (EG)**  
WHS/DIOR, Feb 99

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