

MIL-P-43334C  
30 September 1986  
SUPERSEDING  
MIL-W-43334B  
29 September 1972

## MILITARY SPECIFICATION

### \* PACKAGING OF TEXTILE WEBBING AND TAPE

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

#### 1. SCOPE

1.1 Scope. This document covers the packaging and marking of textile webbing and tape for shipment and storage.

#### 2. APPLICABLE DOCUMENTS

##### 2.1 Government documents.

- \* 2.1.1 Documents. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation.

#### SPECIFICATIONS

##### FEDERAL

PPP-B-591	- Boxes, Fiberboard, Wood-Cleated
PPP-B-601	- Boxes, Wood, Cleated-Plywood

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to U.S. Army Natick Research, Development, and Engineering Center, Natick, MA 01760-5014, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 83GP

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- |           |   |
|-----------|---|
| PPP-B-621 | - Boxes, Wood, Nailed and Lock-Corner   |
| PPP-B-636 | - Boxes, Shipping, Fiberboard   |
| PPP-B-640 | - Boxes, Fiberboard, Corrugated, Triple-Wall                                      |
| PPP-F-320 | - Fiberboard: Corrugated and Solid, Sheet Stock (Container Grade), and Cut Shapes |
| PPP-T-60  | - Tape: Packaging, Waterproof   |

## MILITARY

- |             |  |
|-------------|--|
| MIL-B-117   | - Bags, Sleeves and Tubing, - Interior Packaging   |
| MIL-L-10547 | - Liners, Case, and Sheet, Overwrap; Water-Vaporproof, or Waterproof, Flexible   |
| MIL-L-35078 | - Loads, Unit: Preparation of Semiperishable Subsistence Items, Clothing, Personal Equipment and Equipage; General Specification For |

## STANDARDS

### MILITARY

- |             |   |
|-------------|---|
| MIL-STD-105 | - Sampling Procedures and Tables for Inspection by Attributes |
| MIL-STD-129 | - Marking for Shipment and Storage                            |
| MIL-STD-147 | - Palletized Unit Loads                                       |

(Copies of documents required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.2 Other publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DOD adopted shall be those listed in the issue of the DODISS specified in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS shall be the issues of the nongovernment documents which are current on the date of the solicitation.

### AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

#### D 3951 - Standard Practice for Commercial Packaging

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

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(Technical society and technical association documents are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)

2.3 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 shall take precedence. Nothing in this document, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

### 3. REQUIREMENTS

3.1 Material. The materials shall be as specified herein. Materials not definitely specified shall be of the quality normally used by the manufacturer, provided the completed item complies with all the provisions of this document.

3.2 Put-up. The amount of webbing or tape and the allowable number of pieces in each roll or spool shall be as specified in the applicable webbing or tape document, contract, or purchase order (see 6.1). The webbing or tape on each roll or spool shall be wound with sufficient tension to produce a firm and compact unit. The end of the webbing or tape shall be secured in such a manner as to prevent unwinding, loosening, or slipping during handling, shipping, and storage.

3.2.1 Identification ticket or label. Unless otherwise specified (see 6.1), each roll or spool of webbing and tape shall have a ticket attached in such a manner that the ticket will remain with the webbing or tape until completely used. The ticket shall be attached with no finer than 5-ply cotton string doubled to not less than 6 inches in length. The ticket shall be made of not less than 15-point paper stock. The color shall be manila or white to permit easy reading of printed, stamped, or typed markings. The ticket shall have clipped corners at one end. A reinforcing patch (with or without a metal eyelet) shall be firmly affixed to the ticket end that is clipped. The ticket shall be legibly printed, stamped, or typed with water insoluble black ink. Handwritten entries shall be prohibited. The ticket shall contain the following minimum information:

- Stock number
- Item description
- Length
- Specification number
- Contract number and date of manufacture  
(month and year)
- Supplier's name
- Name of contracting agency

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When specified (see 6.1), each spool or unit pack of tape or webbing shall have an identification gummed label attached to the head end of the spool or to the outside end of the unit pack, as applicable, in place of the identification ticket. The color of the label shall be manila or white to permit easy reading of printed, stamped, or typed markings. The use of hand-written entries is prohibited. The label shall be legibly printed with water insoluble black ink. The legend shall be as specified herein.

3.3 Preservation. Preservation shall be level A or Commercial, as specified (see 6.1).

3.3.1 Level A.

- \* 3.3.1.1 Webbing. Unless otherwise specified herein, each roll or spool of webbing, put-up and identified as specified in 3.2 and 3.2.1, shall be unit packed in a snug-fitting bag conforming to type II or III, class B, style 1 or 2 of MIL-B-117 or a polyethylene bag. Polyethylene bags for single rolls or spools shall be made from 0.00125-inch thick ( $\pm 25$  percent) clear film. When specified (see 6.1), multiple rolls or spools of webbing of the same description shall be unit packed in a snug-fitting bag conforming to type I or II, class B, style 1 or 2 of MIL-B-117 or a polyethylene bag. Polyethylene bags for multiple rolls or spools shall be made from 0.0025-inch thick ( $\pm 20$  percent) clear film. The polyethylene bag shall be formed with heat sealed seams that are straight, continuous, and parallel to each other and to the formed edges of the bag. The bag may be fabricated from polyethylene film tubing or sheeting. The quantity of rolls or spools in the multiple unit pack shall not exceed 12 nor shall the total length of the unit pack exceed 12 inches. Closure of all bags shall be by heat sealing or double folding and sealing with minimum 1-inch wide tape conforming to PPP-T-60 or by mechanical means (twist tie closure). Polyethylene bags for mildew-resistant treated webbing shall be perforated for ventilation.
- \* 3.3.1.2 Tape. Unless otherwise specified herein, multiple rolls or spools of tape of the same description, put-up and identified as specified in 3.2 and 3.2.1, shall be unit packed in a snug-fitting bag conforming to type II or III, class B, style 1 or 2 of MIL-B-117 or a polyethylene bag. Polyethylene bags shall be made from 0.00125-inch thick ( $\pm 25$  percent) clear film. The polyethylene bag shall be formed with heat sealed seams that are straight, continuous, and parallel to each other and to the formed edges of the bag. The bag may be fabricated from polyethylene film tubing or sheeting. The quantity of rolls or spools in the multiple unit pack shall not exceed 12 nor shall the total length of the unit pack exceed 12 inches. When specified (see 6.1), each roll or spool shall be unit packed in a snug-fitting bag. The bag shall be as specified for multiple rolls or spools of tape. Closure of all bags shall be by heat sealing or double folding and sealing with minimum

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1-inch wide tape conforming to PPP-T-60 or by mechanical means (twist tie closure). Polyethylene bags for mildew-resistant treated tape shall be perforated for ventilation.

- \* 3.3.2 Commercial. Rolls and spools of webbing and tape, put-up and identified as specified in 3.2 and 3.2.1, shall be preserved in accordance with ASTM D 3951.

3.4 Packing. Packing shall be level A, B, or Commercial, as specified (see 6.1).

3.4.1 Level A packing.

- \* 3.4.1.1 Webbing. Webbing of the same description, preserved as specified in 3.3, shall be packed in a snug-fitting shipping container conforming to style RSC-L, grade V2s of PPP-B-636; overseas type, style A, B, or I of PPP-B-601; or class 2, style 2 or 4 of PPP-B-621. Each PPP-B-636 shipping container shall be fitted with a box liner conforming to type CF, class weather-resistant, variety DW, grade V15c of PPP-B-636. Each shipping container packed with level A unit packs (see 3.3.1) will require no waterproofing. Each shipping container except those conforming to PPP-B-636 packed with Commercial unit packs (see 3.3.2) shall be provided with a type I or II, grade B or C case liner conforming to MIL-L-10547. Each shipping container conforming to PPP-B-636 packed with Commercial unit packs shall be waterproofed with tape in accordance with the appendix of PPP-B-636. Each shipping container shall be closed and strapped in accordance with the appendix of the applicable container document. The weight of contents of each PPP-B-636 shipping container shall not exceed 65 pounds, and all others shall not exceed 150 pounds. Shipping containers shall be arranged in unit loads in accordance with MIL-L-35078 for the type and class specified (see 6.1). Strapping shall be limited to nonmetallic strapping except for type II, class F loads. Shipping containers shall be of a size that conforms to the requirements for palletization in accordance with MIL-STD-147.
- \* 3.4.1.2 Tape. Tape of the same description, preserved as specified in 3.3, shall be packed in a snug-fitting fiberboard shipping container conforming to style RSC-L, grade V2s of PPP-B-636. Each shipping container shall be fitted with a box liner conforming to type CF, class weather-resistant, variety DW, grade V15c of PPP-B-636. Each shipping container packed with level A unit packs (see 3.3.1) will require no waterproofing. Each shipping container packed with Commercial unit packs (see 3.3.2) shall be waterproofed with tape in accordance with the appendix of PPP-B-636. Each shipping container shall be closed and reinforced in accordance with the appendix of PPP-B-636. The weight of contents of each shipping container shall not exceed 65 pounds.

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Shipping containers shall be arranged in unit loads in accordance with MIL-L-35078 for the type and class specified (see 6.1). Strapping shall be limited to nonmetallic strapping except for type II, class F loads. Shipping containers shall be of a size that conforms to the requirements for palletization in accordance with MIL-STD-147.

### 3.4.2 Level B packing.

- \* 3.4.2.1 Webbing. Webbing of the same description, preserved as specified in 3.3, shall be packed in a snug-fitting shipping container conforming to style RSC-L, type CF or SF, class domestic, variety SW, grade 275 or variety DW, grade 275 of PPP-B-636; class 1, style A or B of PPP-B-591; or class 1, grade A, style E of PPP-B-640. Each PPP-B-636 shipping container shall be fitted with a box liner conforming to type CF, class domestic, variety DW grade 275 of PPP-B-636. Each PPP-B-636 fiberboard shipping container shall be closed by method II in accordance with the appendix of PPP-B-636. All other shipping containers shall be closed in accordance with the appendix of the applicable container document. Containers with weight of contents exceeding 100 pounds shall be reinforced with flat strapping in accordance with the appendix of the applicable container document. The weight of contents of PPP-B-636 containers shall not exceed 65 pounds, and all others shall not exceed 150 pounds. Shipping containers shall be of a size that conforms to the requirements for palletization in accordance with MIL-STD-147.
- \* 3.4.2.2 Tape. Tape of the same description, preserved as specified in 3.3, shall be packed in a snug-fitting fiberboard shipping container conforming to style RSC-L, type CF or SF, class domestic, variety SW, grade 275 of PPP-B-636. Each shipping container shall be fitted with a box liner conforming to type CF, class domestic, variety DW, grade 275 of PPP-B-636. Each shipping container shall be closed by method II in accordance with the appendix of PPP-B-636. The weight of the contents of each shipping container shall not exceed 65 pounds. Shipping containers shall be of a size that conforms to the requirements for palletization in accordance with MIL-STD-147.
- 3.4.2.3 Weather-resistant containers. When specified (see 6.1), fiberboard for containers conforming to PPP-B-636 and PPP-B-591 shall be made from material conforming to grade V3c, V3s or V4s of PPP-F-320. Triple wall fiberboard for containers shall conform to class 2 (weather resistant) material of PPP-B-640. Closure of fiberboard containers conforming to PPP-B-636 and PPP-B-640 shall be in accordance with the weather resistance requirements of the appendix of the applicable container document.

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- \* 3.4.3 Commercial packing. Webbing and tape of the same description shall be packed in accordance with ASTM D 3951. Shipping containers shall be of a size that conforms to the requirements for palletization in accordance with MIL-STD-147.
- \* 3.5 Marking. In addition to any special markings required by the contract or purchase order, unit packs, shipping containers, and palletized unit loads shall be marked in accordance with MIL-STD-129 or ASTM D 3951, as applicable. Identification tickets or labels as specified in 3.2.1 will suffice as the unit pack marking for clear polyethylene or plastic film covered packages, provided the ticket or label is positioned with the identification information visible.
- \* 3.6 Palletization. When specified (see 6.1), webbing and tape of one description only, packed as specified in 3.4.2 and 3.4.3 shall be palletized on a 4-way entry pallet in accordance with load type Ia of MIL-STD-147. Pallet type shall be type I (4-way entry), type IV, or type V in accordance with MIL-STD-147. Each prepared load shall be bonded with primary and secondary straps in accordance with bonding means K and L or film bonding means O or P. Pallet patterns shall be in accordance with the appendix of MIL-STD-147. Interlocking of loads shall be effected by reversing the pattern of each course.

## 4. QUALITY ASSURANCE PROVISIONS

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 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 disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in this document where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

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



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

4.2.1 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 document or applicable purchase document.

- \* 4.2.1.1 Identification ticket or label examination. The identification tickets and labels shall be examined for the defects listed in table I. The lot size shall be listed in units of tickets or labels, as applicable. The sample unit shall be one ticket or label, as applicable. The inspection level shall be S-2, and the acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 2.5 for major defects and 10.0 for total defects.

TABLE I. Identification ticket or label defects

Examine	Defects	Classification	
		Major	Minor
Material	Less than 15-point stock (tickets)	101	
	Not color specified	102	
	Reinforcing patch missing (tickets)	103	
	Corners not clipped (tickets)		201
	Not gummed (labels)		202
String	Less than 6 inches long		203
	Less than 5-ply cotton		204
Marking	Incomplete, incorrect, illegible	104	
	Handwritten	105	
	Stamped with water soluble ink	106	

- \* 4.2.2 Packaging examination. The fully packaged end items shall be examined for the defects listed in table II. The lot size shall be expressed in units of shipping containers. The sample unit shall be one shipping container. The inspection level shall be S-2, and the AQL, expressed in terms of defects per hundred units, shall be 2.5 for major defects and 10.0 for total defects.



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TABLE II. Packaging defects

Examine	Defects	Classification	
		<u>Major</u>	<u>Minor</u>
Put-up	Tension on roll or spool not sufficient to produce a compact unit of webbing or tape		201
	Outside end of webbing or tape not secured to prevent unwinding, loosening, etc., during handling	101	
Identification ticket or label	Missing	102	
	Not secured to webbing or tape as specified (see 3.2.1)	103	
Preservation			
Level A	Rolls or spools of webbing or tape not packaged as specified	104	
	Multiple rolls of tape or webbing not all of the same description	105	
	Multiple package greater than 12 inches long or contains more than 12 rolls or spools	106	
	Polyethylene bags not clear for webbing or tape	107	
	Bag not closed	108	
Polyethylene bags for level A	Heat sealed seams not straight, continuous or parallel; not perforated when required	109	
	Less than specified thickness	110	
Packing	More than one description of webbing or tape packed in shipping container	111	202
	Container not snug fitting		
	Box liner missing in fiberboard container	112	

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TABLE II. Packaging defects - Continued

Examine	Defects	Classification	
		<u>Major</u>	<u>Minor</u>
Packing (continued)	Weight of contents in shipping container greater than specified	113	
	Case liner missing when required	114	
Marking	Omitted, incomplete, incorrect, illegible	115	
	Improper size, location, sequence, or method of application	116	

4.2.2.1 Case liners and shipping container examination. When case liners are required to be in accordance with MIL-L-10547, examination of closure shall be in accordance with the appendix of MIL-L-10547. When containers are required to be in accordance with PPP-B-591, PPP-B-601, PPP-B-621, PPP-B-636, or PPP-B-640, examination for closure, waterproofing with tape, or reinforcing shall be in accordance with the appendix of the applicable container document.

4.2.3 Palletization examination. The fully packaged and palletized end items shall be examined for the defects listed below. The lot size shall be expressed in units of palletized unit loads in the inspection lot. The sample unit for this examination shall be one palletized unit load fully packaged. The inspection level shall be S-1, and the AQL, expressed in terms of defects per hundred units, shall be 6.5.

<u>Examine</u>	<u>Defect</u>
Finished dimensions	Length, width, or height exceeds specified maximum requirement
Palletization	Pallet pattern not as specified
	Interlocking of loads not as specified
	Load not bonded with required straps as specified

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<u>Examine</u>	<u>Defect</u>
Weight	Exceeds maximum load limits
Marking	Omitted; incorrect; illegible; of improper size, location, sequence, or method of application

## 5. PACKAGING

This section is not applicable to this document.

## 6. NOTES

6.1 Ordering data. Acquisition documents should specify the following:

- a. Title, number, and date of this document.
- b. Selection of put-up, applicable level of preservation, and packing (see 3.2, 3.3, and 3.4).
- c. When rolls or spools should not be identified by a ticket (see 3.2.1).
- d. When labels shall be used in place of tickets (see 3.2.1).
- e. Selection of applicable levels of preservation and packing (see 3.3 and 3.4).
- f. When multiple rolls or spools of webbing will be packaged for level A (see 3.3.1.1).
- g. When single rolls or spools of tape will be packaged for level A (see 3.3.1.2).
- h. Type and class of unit load required (see 3.4.1.1 and 3.4.1.2).
- i. When weather-resistant fiberboard material for containers is required for level B packing (see 3.4.2.3).
- j. When palletization is required (see 3.6).

\* 6.2 Subject term (key word) listing.

Packaging, webbing and tape

6.3 Changes from previous issue. The margins of this document are marked with an asterisk (\*) to indicate where changes (additions, modifications, corrections, deletions) from the previous issue were made. This was done as a convenience only, and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content, as written, irrespective of the marginal notations and relationship to the last previous issue.

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**Custodians:**

Army - GL  
Navy - NU

**Preparing activity:**

Army - GL

Project No. 83GP-0022

**Review activities:**

Army - MD, SM  
Navy - AS  
DLA - CT

**User activities:**

Navy - MC, SH, YD  
Air Force - 82

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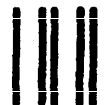
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