

INCH-POUND

A-A-55116

11 JANUARY 1993

COMMERCIAL ITEM DESCRIPTION

SLEEPING BAG, INTERMEDIATE COLD, SYNTHETIC FILLED

The General Services Administration has authorized the use of this Commercial Item Description in preference to MIL-S-44016.

Abstract. This document covers the requirements for one type and size of sleeping bag with hood. The sleeping bag is for use in locations where mean monthly temperatures range from +45 degrees F to +10 degrees F.

Salient Characteristics. The sleeping bag shall be of quilted construction with the outside and the inside panels, flap and weatherstrip filled with synthetic batting. The front opening shall be equipped with a slide fastener, a flap closure with snap fasteners along the front opening and adjustable face closure with drawstring. (See figures 1 and 2). The sleeping bag shall be furnished with a hood. (See figures 3 and 4). The hood shall be positioned within the sleeping bag at the head end.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Defense Personnel Support Center, Clothing and Textiles Directorate, Attn: DPSC-FSSD, 2800 South 20th Street, Philadelphia, PA 19101-8419, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 8465

DISTRIBUTION STATEMENT A.

Approved for public release;
distribution is unlimited.

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Material. Thread shall be dyed Olive Drab S-1, C.A. 66022 and shall be water-repellent treated. The dyed thread shall show fastness to laundering. The slide fastener shall be nonseparating reversible of nylon or polyester continuous element (spiral, serpentine, or scoop type) medium heavy special size. The slide fastener tape shall be $1 \pm 1/16$ inch width and dyed to match Olive Drab S, C.A. 66519. The tape shall be durable water repellent treated. The tape shall show "good" fastness to laundering. The color of the element, element sewing threads, and thongs shall match the Olive Drab fastener tape, while the slider, straps, and stirrup pulls may be either Olive Drab or black. The fastener stops shall be made of plastic (nylon or polyester), brass, aluminum, or other non-corroding material. The closed bottom stop shall enclose the sides and ends of the fastener chain. The fastener length shall provide a smooth and secure closure. The fastener shall have a reversible double pull, non-locking, slider with wire stirrup pulls and thongs attached. The slider shall properly fit the fastener chain and shall have an initial slider on chain opening force of not more than 22.9 oz. The stirrup pulls shall be fabricated from brass or corrosion resistant steel at 0.058 inches minimum diameter. For purposes of aiding in end-item inspection testing and possible field end-item repair situations, the slider shall be identified with a symbol or marking as to identify the fastener manufacturer. The inner panels shall consist of synthetic batting and cotton balloon cloth and outer panels consisting of synthetic batting and oxford cloth shall be of quilted construction. Spacing of rows of stitching shall be $6 \pm 3/4$ inches. Location of rows relative to the edges (length direction) of the panels is optional. As an option, the weatherstrip filling consisting of the synthetic batting may be quilted to the balloon cloth.

Label/markings. The label for the instructions for use and maintenance, identification, and laundry instructions shall be a sewn-on or heat-sealed-on label. Direct marking of the letters "US" shall be applied to both sides of the sleeping bag and shall conform to type III or IV, class 9 of DDD-L-20 in solid black letters 2 inches high. In addition the markings "INTERMEDIATE COLD" conforming to type III or IV, class 9 of DDD-L-20 shall be applied on both sides of the sleeping bag in characters 1/2 inch high (see figure 1). The label for the instructions for identification, and laundry instructions shall conform to DDD-L-20 in the types and classes specified herein. If a heat sealed label is used the back of the label shall have a heat activated adhesive coating. The labels for the identification, use, and laundry instructions shall be printed on one continuous length of cloth. The width of the label shall not be more than 5 inches and the length shall be governed by the contents (see figure 2). The sew-on or heat-sealed label shall approximate Olive Green 107 as used in the base material for the inner panels and shall show colorfastness to laundering.

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Patterns. The government shall furnish a single size pattern. The contractor is responsible for grading patterns for additional sizes. The pattern generally provides for a seam allowance of 3/8 inch for joining seams. The government patterns shall be used to make the contractor's working patterns. The working patterns may be modified to accommodate automation; however, if the working patterns are modified, the design and measurements must be maintained as intended by government patterns. Commercial patterns may be used in lieu of the government furnished pattern provided they conform to the cited design and finished measurements.

Workmanship. After completion, the finished sleeping bag shall be thoroughly cleaned, and all loose thread, lint, and foreign matter removed.

Product Demonstration Model. When required, offerers shall submit samples of their intended production. The Product Demonstration Model will consist of units independently developed. Product Demonstration Models will be analyzed and evaluated by the government. Evaluation criteria and basis for award are contained in the solicitation. Product Demonstration Models will be retained by the government. One (1) Product Demonstration Model approved by DPSC under the resultant contract will serve as a manufacturing standard for the corresponding production items delivered under this contract. Offerers are advised that the Product Demonstration Model does not relieve the successful offerer of his responsibility to perform in accordance with the Commercial Item Description specified above.

Regulatory Requirements. The offeror/contractor is encouraged to use recovered materials in accordance with Public Law 94-580 to the maximum extent practicable.

Quality Assurance

Certification. The contractor shall certify that the product offered meets the salient characteristics of this description and that the product conforms to the producer's own drawings, specifications, standards and quality assurance practices. The government reserves the right to require proof of such conformance prior to the first delivery and thereafter as may be otherwise provided for, under the provisions of the contract. Reliance on contractor QA systems 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.

Examination. Lots of sleeping bags shall be inspected in accordance with "Sampling Procedures and Tables for Inspection by Attributes", ANSI/ASQC Z1.4, published by the American Society for Quality Control.

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Visual Examination. The inspection level for visual examination shall be level II and the acceptable quality level (AQL) expressed in terms of defects per hundred units, shall be 2.5 for major defects and 25.0, for total (major and minor combined) defects. The sample unit shall be one finished sleeping bag.

Dimensional Examination. The finished sleeping bag shall conform to the dimensions specified. Any dimension that is not within the established tolerance shall be classified as a defect. The sample unit shall be one finished sleeping bag; The inspection level shall be S-3 and the AQL, expressed in terms of defects per hundred units, shall be 4.0 for major defects and 15.0 for total (major and minor combined) defects.

Packaging Examination. The fully packaged shipping containers shall be examined in accordance with defects listed below. The lot size shall be the number of shipping containers in the inspection lot. The inspection level shall be S-2 and the AQL, expressed in terms of defects per hundred units, shall be 2.5.

| EXAMINE | DEFECT |
|------------------------------------|---|
| Marking (exterior and interior) | Omitted; incorrect; illegible; of improper size, location, or method of application |
| Materials | Any component missing, damaged, or not as specified |
| Workmanship | Inadequate application of components, such as: incomplete closure of container flaps, loose strapping, improper taping, or inadequate stapling |
| Content | Number of items container is more or less than required NSN shown on one or more items not as specified on shipping container |
| Palletization | Length, width, or height exceeds specified maximum requirements Pallet type not as specified Load not bonded as specified |

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Defects. The finished sleeping bag shall be examined for the following defects: any hole, cut, tear, color not as specified; any spot or stain (outside); thread ends not removed; open seams; label missing, incorrect, or illegible; measurement of item not as specified, and any variance not otherwise classified herein but at a variance with the product demonstration model.

End Item Performance Testing. The preparation of samples for component testing is as follows. A label of the required size shall be heat-sealed to a single ply of the cotton balloon cloth material used on the inner panel. The warp thread directions of the label material and cotton balloon cloth shall be aligned. The label shall be heat-sealed to the cotton balloon cloth material using the same type of equipment and under the same conditions of time, temperature, and pressure as used in production of the sleeping bag. One end of the label shall be left unsealed a sufficient distance to provide tabs for subsequent testing. After heat-sealing the sample shall be cooled for a minimum of 10 seconds and then carefully removed from the heat-sealing apparatus without stressing the bonded area. The sample shall then be allowed to remain at room temperature for 1 hour minimum. The sample prepared as specified above shall be prepared for testing by cutting the sample into strips $1 \pm 1/32$ inch wide along the long dimension of the label.

The heat sealed labels shall be tested for the following characteristics:

1. Coated weight. Five labels shall be tested for coated weight. The requirement of 6.1 to 8.3 ounces per square yard, results reported to the nearest 0.1 oz/sq yd.

2. Adhesion. Five $1 \pm 1/32$ inch wide specimens, shall be tested for adhesion. The requirement of 5.0 pounds per inch, minimum, results reported to the nearest 0.1 lb in accordance with Method 5960 of FED-STD-191.

3. Hot soap-resistance. Five $1 \pm 1/32$ inch wide specimens shall be tested for hot-soap resistance. The five specimens shall be submerged in 500 ml of a 1/4 percent by weight solution of high titer laundry soap conforming to type I, class 1 or 2 of P-S-1792, maintained at 160 degrees F \pm 5 degrees F for 1 hour minimum. The specimens shall then be rinsed in a beaker kept overflowing with hot tap water (130 degrees to 140 degrees F) for approximately 2 minutes, and then shall be given a final rinse for approximately two minutes in water maintained at a temperature of 70 degrees F \pm 5 degrees F, meeting a requirement of 4.0 pounds per inch, minimum, results reported to the nearest 0.1 lb. The specimens shall then be tested while wet, within one hour, for adhesion.

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4. Colorfastness. Labels shall be tested for colorfastness to laundering transference and accelerated laundering as specified in DDD-L-20 for class 3 labels except the labels shall consist of specimens which have been heat-sealed to cotton balloon cloth used for the inner panel and which were heat-sealed in the same manner as done for the preparation of the specimens for the adhesion and hot soap resistance test.

5. Surface condition and legibility after heat-sealing. When compared with unsealed labels, there shall be no loss in legibility, smearing or bleeding of the print, discoloration, or any loss of the coating on the printed surface.

Preservation, Packing, and Marking. The preservation, packing, and marking shall be as specified in the contract or order.

Source of Government Documents. Copies of Military and Federal documents are available from:

Standardization Documents Order Desk
Bldg. 4D
700 Robbins Avenue
Philadelphia, PA 19111-5094

Sources of Nongovernment Documents.

ANSI/ASQC Z1.4 - Sampling Procedures and Tables For Inspection By Attributes

(Applications for copies should be addressed to American National Standards Institute, 1430 Broadway, New York, NY 10018-3308.)

Custodian:
Army - GL
Navy - NU

Civil Agency Coordinating
Activity:
GSA - FSS

Review Activity:
Army - MD
Navy - MC

Preparing Activity:
DLA - CT

Project No. 8465-0128

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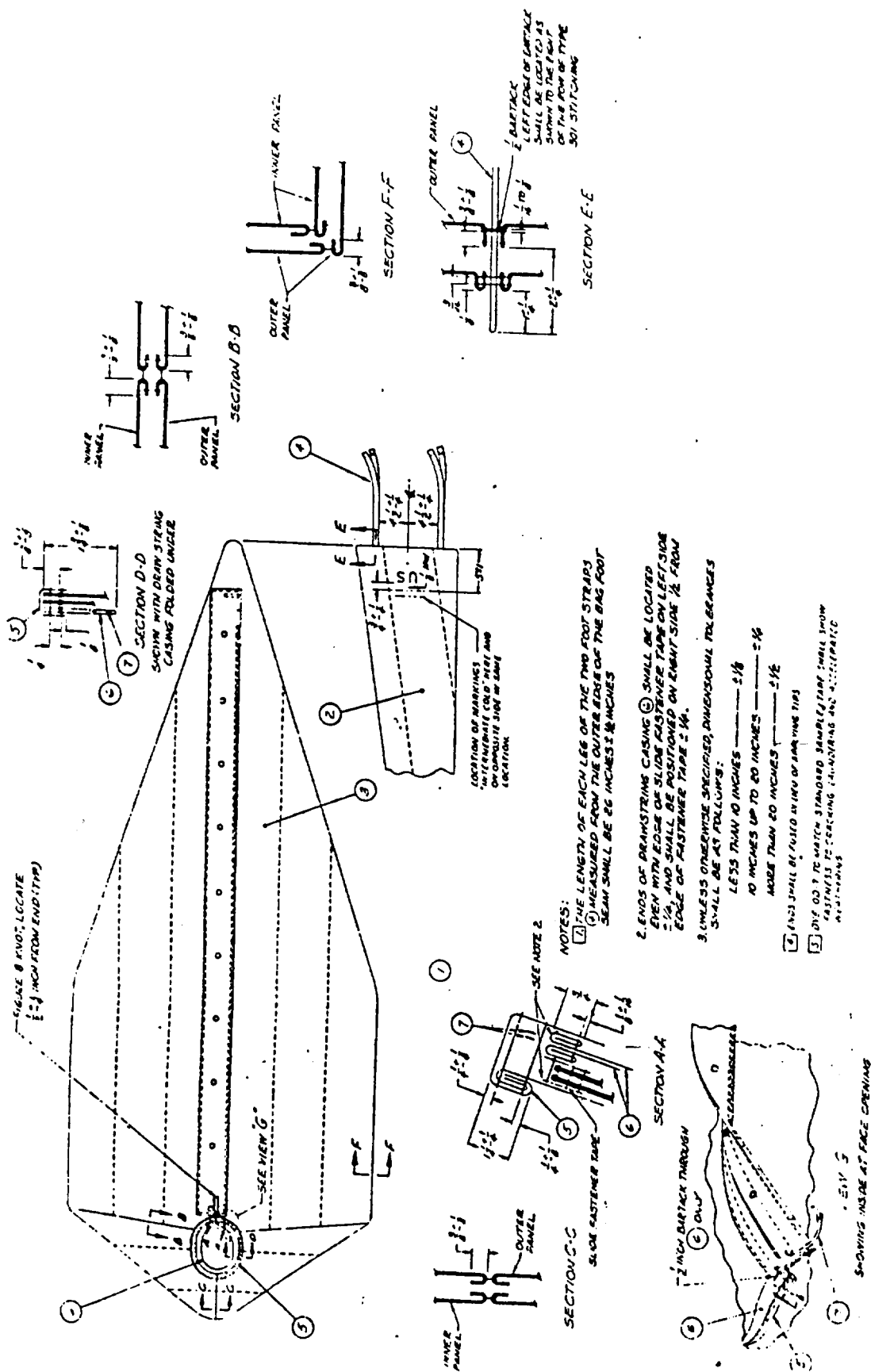


Figure 1. Sleeping Bag, Intermediate Cold, Synthetic Filled

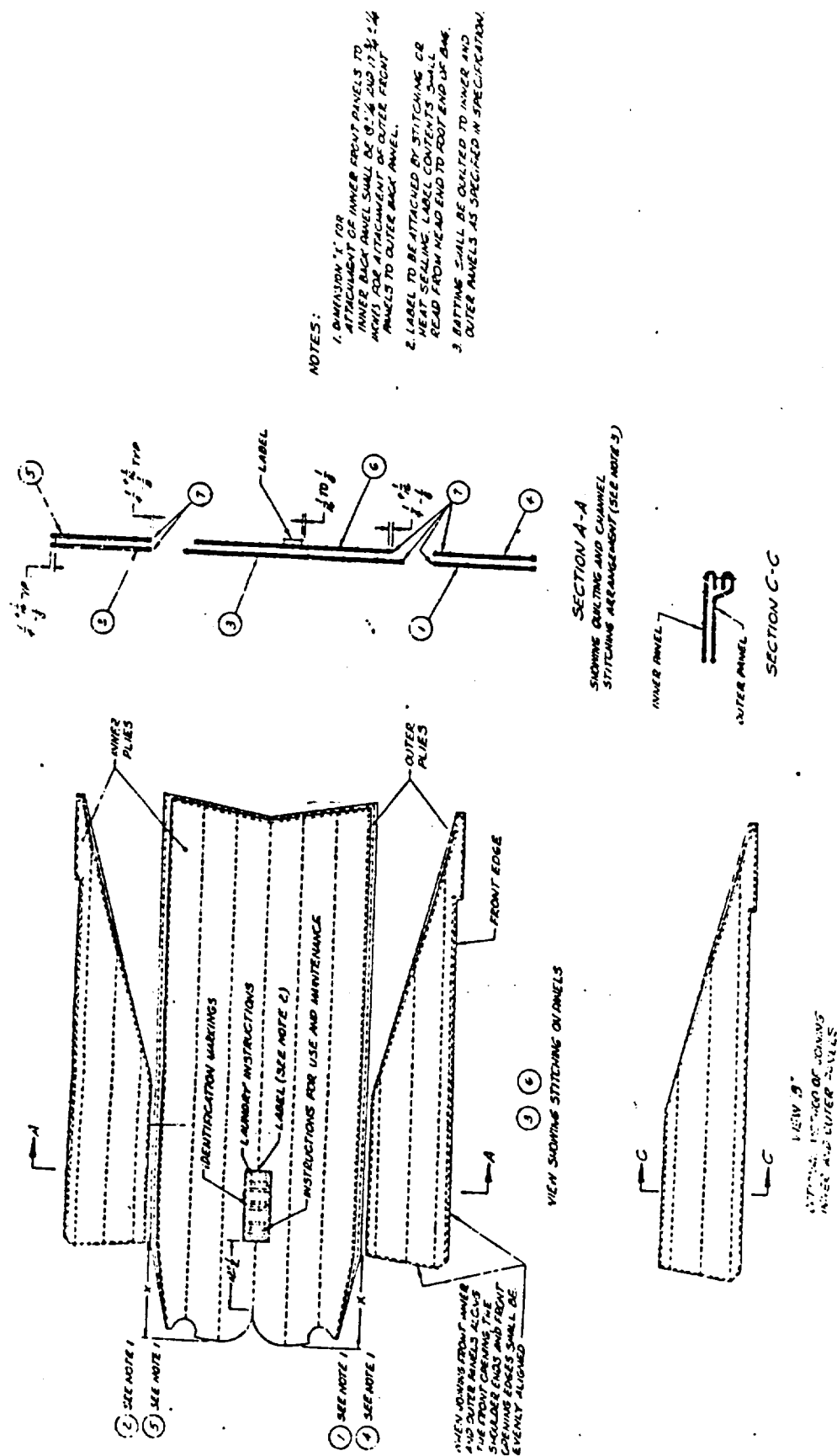


Figure 2. Sleeping Bag, Intermediate Cold, Synthetic Filled

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NOTES:

- 1 THE CLOTH SHALL BE NYLON/ACETATE TRICOT KNIT CAMOUFLAGE GREEN 483 CONFORMING TO MIL-C-43358, EXCEPT THAT ACETATE YARN WILL BE USED TO PRODUCE THE LONG FLOAT IN THE KNITTED CLOTH, AND THE ELONGATION/SHRINKAGE SHALL NOT EXCEED 5 PERCENT IN THE WIDTH (COURSE) DIRECTION OF THE CLOTH.
- 2 THE THREAD SHALL CONFORM TO TICKET NO. 50, 2 PLY OF MIL-T-43548, OR AS AN ALTERNATIVE, THE THREAD SHALL CONFORM TO TYPE 1, SUBCLASS A, SIZE E, OF V-T-285, THE THREAD SHALL BE DYED OLIVE DRAB S-1, C.A. 66022.

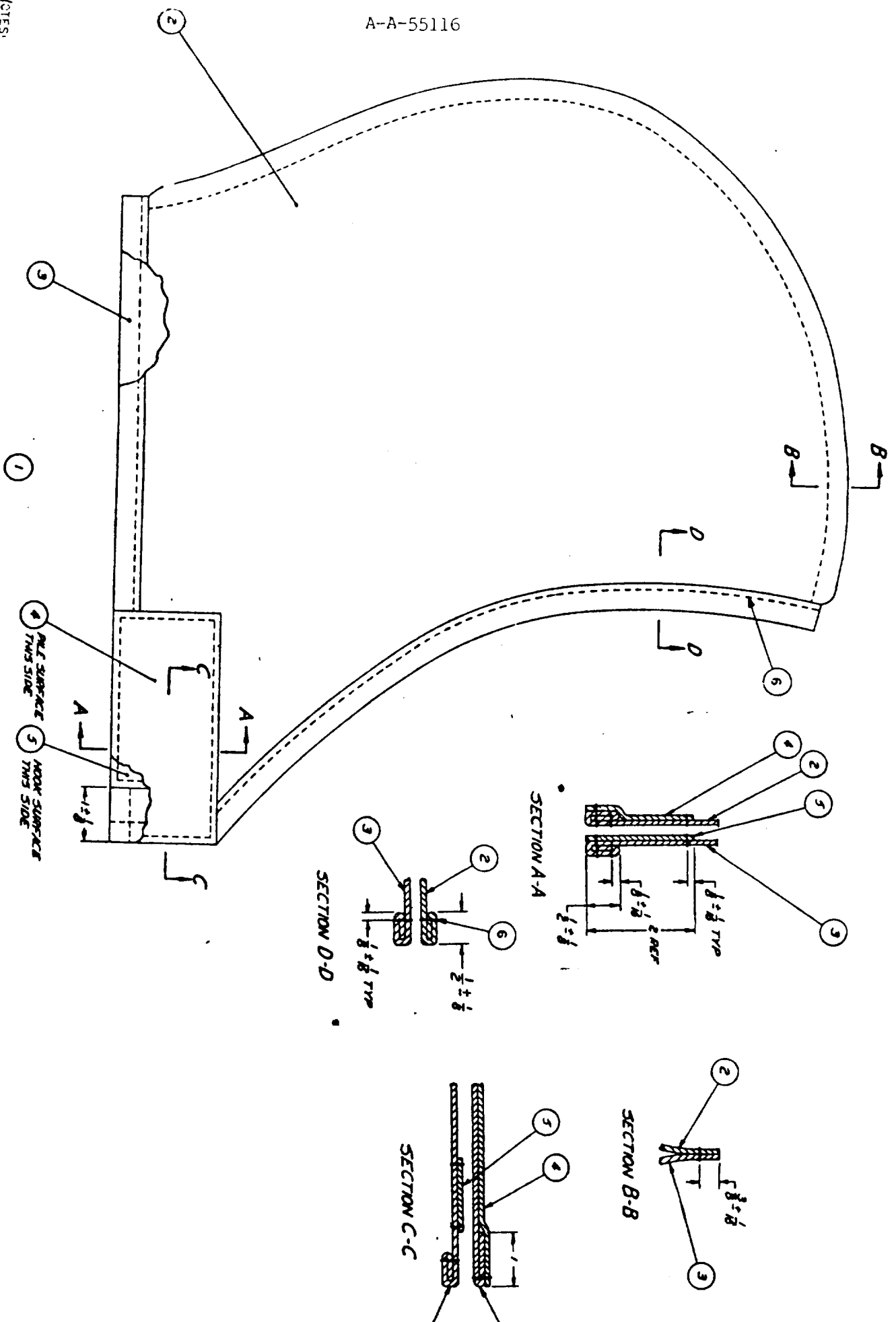


Figure 3. Sleeping Bag, Intermediate Cold, Synthetic Filled

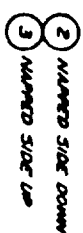


Figure 4. Sleeping Bag, Intermediate Cold, Synthetic Filled

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.

I RECOMMEND A CHANGE:

1. DOCUMENT NUMBER
A-A-55116

2. DOCUMENT DATE (YYMMDD)
93-01-11

3. DOCUMENT TITLE
Sleeping Bag, Intermediate Cold, Synthetic Filled

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
Defense Personnel Support Center
ATTN: DPSC-FSSD (12-3-D)

b. TELEPHONE (Include Area Code)
(1) Commercial (2) AUTOVON

c. ADDRESS (Include Zip Code)
2800 South 20th Street
P. O. Box 8419
Philadelphia, PA 19101-8419

IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:
Defense Quality and Standardization Office
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