



Forest Service
U.S. DEPARTMENT OF AGRICULTURE

National Technology & Development Program

Specification 5100-609B CASE, CARRYING, FIRE SHELTER, M-2002

Issue Date: September 1, 2023

Supersedes: 5100-609A

Dated: November 27, 2007

Distribution Statement A: Approved for public release; distribution is unlimited.

FSC 8465

5100-609B

Record of Revisions

Date	Revision summary
9/1/2023	Patent information updating. Grammar and readability edits. Formatted for 508 compliance. Changed UL to Third Part Certification Organization.

Contents

1. SCOPE	4
1.1. Scope.....	4
1.2. Interpretations and Definitions.....	4
2. APPLICABLE DOCUMENTS	4
2.1. Government documents.....	4
2.2. Non-Government publications.....	5
2.3. Order of precedence.....	5
3. REQUIREMENTS	5
3.1. First article.....	5
3.2. Materials and components.....	6
3.3. Construction.....	7
3.4. Deviations and waivers.....	9
3.5. Workmanship.....	9
3.6. Metric products.....	10
3.7. Recovered materials.....	10
4. QUALITY ASSURANCE PROVISIONS.....	10
4.1. Responsibility for inspection.....	10
4.2. Classification of inspections.....	11
4.3. First article inspection.....	11
4.4. Quality conformance inspection.....	11
4.5. Packaging inspection.....	15
5. PACKAGING.....	15
5.1. Preservation.....	15
5.2. Packing.....	15
5.3. Marking.....	16
6. NOTES.....	16
6.1. Intended use.....	16
6.2. Acquisition requirements.....	16
6.3. Standard shade sample.....	16
6.4. First article.....	16
6.5. Suggested sources.....	16
6.6. Notice.....	17
6.7. Preparing activity.....	17
6.8. Patent.....	17

1. SCOPE

1.1. Scope.

This specification covers the requirements of carrying cases for the fire shelter.

1.2. Interpretations and Definitions.

1.2.1. Interpretation.

To carry out the provisions of this document, the word “shall” is understood to be mandatory.

1.2.2. Definitions.

Nonconformity: A departure of a quality characteristic from its intended level or state that occurs with severity sufficient to cause an associated product or service not to meet a specification requirement (per ANSI/ASQ Z1.4).

2. APPLICABLE DOCUMENTS

2.1. Government documents.

The following Government documents form a part of this document to the extent specified herein. Unless otherwise specified the revision of these documents are those in effect on the date of the invitation for bids or request for proposals. Unless otherwise indicated, copies of federal and military specifications and standards are available online at <https://quicksearch.dla.mil/qsSearch.aspx> or in hard copy from the Standardization Documents Order Desk, Bldg. 4D, 700 Robbins Ave., Philadelphia, PA 19111-5094. Copies of Forest Service specifications are available from the preparing activity, see 6.7.

2.1.1. Federal Specifications

A-A-55126 - Fastener Tapes, Hook and Loop, Synthetic

A-A-59826 - Thread, Nylon

2.1.2. Military Specifications

MIL-DTL-4088 – Webbing, Textile, Woven, Nylon

MIL-DTL-5038 - Tape, Textile and Webbing, Textile, Reinforcing Nylon

MIL-DTL-27265 - Webbing, Textile, Woven Nylon, Impregnated

MIL-DTL-32075 - Label: For Clothing, Equipage, and Tentage (General Use)

MIL-H-9890 - Hardware, Individual Load Carrying Equipment, and Hardware, Misc.

2.1.3. USDA Forest Service

Copies are available from the preparing activity, see 6.7.

5100-609B

5100-86 - Cloth, Duck, Nylon (Polyurethane Coated)

MTDC-1002 - Case, Carrying, Fire Shelter, M-2002

2.2. Non-Government publications.

The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those in effect on the date of the invitation for bids or request for proposals. Non-Government standards and other publications normally are available from the organizations that prepare and distribute the documents. These documents also may be available in or through libraries or other informational services.

2.2.1. ASTM

Copies are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428-2959, website www.astm.org.

D 1974 - Standard Practice for Methods of Closing, Sealing, and Reinforcing Fiberboard Boxes

D 3951 - Standard Practice for Commercial Packaging

D 6193 - Standard Practice for Stitches and Seams

SI-10 - Standard For Use of the International System of Units (SI): The Modern Metric System (IEEE/ASTM Standard available from ASTM)

2.2.2. American Society For Quality (ASQ)

Copies are available from the American Society for Quality, PO Box 3005, Milwaukee, WI 53201-3005, website asq.org.

Z1.4 - Sampling Procedures and Tables for Inspection by Attributes

2.2.3. National Motor Freight Traffic Association, Inc., Agent

Address requests for copies to American Trucking Association, Inc., Traffic Department, 1616 P St. NW, Washington, DC 20036, website www.nmfta.org.

National Motor Freight Classification

2.3. Order of precedence.

In the event of conflict between the text of this document and 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.

Unless otherwise specified, the fire shelter carrying case shall be subjected to first article inspection (see 6.4) in accordance with 4.3. During the term of the contract the contractor

5100-609B

shall be required to notify the contracting officer in writing when a component, or the component supplier changes in any way; and when a manufacturing location changes. The contracting officer may at any time require the contractor to submit a new first article sample when substantive changes occur during the term of the contract.

3.1.1. ISO registration.

The manufacturer shall be registered to ISO 9001, Quality Management Systems - Requirements (see 4.3.1). The operation of the quality assurance program shall evaluate and test compliant product production against this specification to ensure that production remains in compliance. ISO Registration shall be maintained throughout the term of any government contract.

3.1.2. Third-party certification.

The fire shelter carrying case shall be certified as being in compliance with this specification by a third-party certifying organization. Certification testing shall be conducted as specified by 4.1.4.

3.2. Materials and components.

Materials and components shall be as specified herein and on drawing MTDC-1002.

3.2.1. Cloth, duck, nylon (polyurethane coated).

The nylon duck shall conform to type II of Forest Service specification 5100-86. The cloth color shall be electric blue to match the standard shade sample (see 6.3).

3.2.2. Tape and webbing.

3.2.2.1. Tape, nylon, 3/4 inch.

The 3/4-inch binding tape shall conform to type III of MIL-DTL-5038. The color shall be black.

3.2.2.2. Webbing, nylon, 2-1/4 inch.

The 2-1/4-inch nylon webbing shall conform to type VIIIc; class 1, 1A, or 2 of MIL-DTL-4088. The webbing shall be resin impregnated conforming to class R treatment of MIL-W-27265. The color shall be black.

3.2.3. Thread, nylon.

The thread for all stitching shall be type II, class A, size FF conforming to A-A-59826. The color shall be black.

3.2.4. Keeper, with slide.

The keeper with slide shall be type X, class B of MIL-H-9890. The color shall be black.

3.2.5. Fastener, tape.

The fastener tape shall conform to 2 inch, type II, class 1 of A-A-55126. The color shall be black.

3.3. Construction.

Construction shall conform in all respects to drawing MTDC-1002 and as specified herein.

3.3.1. Stitches, seams, and stitchings.

All stitching, except bartacking, shall conform to type 301 of ASTM D 6193, with 8 to 10 stitches per inch.

3.3.1.1. Type 301 stitching

Ends of stitching shall be backstitched a minimum of 1 inch (1/2 inch for box) except where ends are turned under or caught in other seams or stitching. Thread tension shall be maintained so that there will be no loose bobbin or top thread or excessively tight stitching resulting in puckering of the materials sewn. The interlock shall be imbedded in the materials sewn.

3.3.1.2. Repairs of type 301 stitching.

Repairs of type 301 stitching shall be as follows (when making the following repairs, the ends of the stitching are not required to be backstitched):

- a. When thread breaks or bobbin runouts occur during stitching, except presewing, the stitching shall be repaired by restarting the stitching a minimum of 1 inch (1/2 inch for box) back of the end of the stitching.
- b. Except for prestitching, thread breaks or two or more consecutive skipped or runoff stitches noted during inspection of the item (in process or end item) shall be repaired by overstitching. The stitching shall start a minimum of 1 inch in back of the nonconforming area (1/2 inch on box), continue over the nonconforming area to a minimum of 1 inch into existing stitching. Loose or excessively tight stitching shall be repaired by removing the nonconforming stitching, without damaging the materials, and restitching in the required manner.

3.3.1.3. Automatic stitching.

Automatic machines may be used to perform any of the stitch patterns provided the requirements for the stitch pattern, stitches per inch, size and type of thread, are met; and at least three or more tying, overlapping, or backstitches are used to secure the ends of the stitching.

3.3.1.4. Thread ends.

All thread ends shall be trimmed to 1/4 inch maximum length.

3.3.1.5. Lubrication of thread.

There shall be no lubrication of the thread by any means, before or during sewing.

3.3.1.6. Stitching margins.

Unless otherwise specified, all stitching margins shall be 1/8 inch.

5100-609B

3.3.1.7. Seam allowance.

Unless otherwise specified, seam allowance on pattern parts shall be 1/2 inch.

3.3.2. Fusing nylon webbing.

All ends of webbing shall be fused before being assembled for stitching. The apparatus used to fuse webbing ends shall provide enough heat to create a smooth edge with cut ends of all webbing yarns fused together.

3.3.3. Location marks.

Location marks may be drilled, providing drill diameter does not exceed 0.076 inch. All drill holes shall be covered on the finished item. Printed marks shall be no more than 1/32 inch in width.

3.3.4. Marking.

3.3.4.1. Case silk screened markings.

Identification markings (FIRE SHELTER, USE INSTRUCTIONS, and NFES) shall be silkscreened in the size and location shown on drawing MTDC-1002, and shall conform to type IV, class 9 of MIL-DTL-32075 except the color of the markings shall be white. Fastness of the class 9 markings shall be 3.5 or better. The color of the cloth shall not be visible under the markings. For non-Government contracted production, the "NFES" shall be omitted.

3.3.4.2. Label.

The label markings shall be printed on a label which is captured in the seam sewing the carrying case flap to the case as shown on drawings MTDC-1002. The label shall conform to type VI, class 9 of MIL-DTL-32075, the character height shall be as specified below. The label shall be 2-1/4 (+0, -1/8) inches wide and as long as necessary for the required lettering.

(Minimum letter height 3/32 inch)

THIS FIRE SHELTER CARRYING CASE MEETS THE REQUIREMENTS OF FOREST SERVICE SPECIFICATION 5100-609B.

(Contract information, minimum letter height 1/16 inch)

CASE, CARRYING, FIRE SHELTER, M-2002

NSN 8465-01-498-3190²

FOREST SERVICE SPECIFICATION 5100-609B

[Manufacturers Name]¹

[Manufacturer's Address]¹

[Contract number]^{1, 2}

[Manufacturer's tracking number, lot number or serial number]¹

Made in USA

[Authorizing mark of certification organization]¹

DATE OF MANUFACTURE: [mm/yy]¹

(Minimum letter height 3/32 inch)

DO NOT REMOVE THIS LABEL

¹Insert appropriate information.

²Required only for government contracts.

3.3.5. Use instructions.

The use instructions shall be printed in four color format (CMYK) on both sides of Yupo Synthetic Text White 57#. The instructions sheet shall measure 8-1/2 by 11 inches +/-1/4 inch. The use instructions shall be folded as necessary to fit the "Use Instruction" pocket on the fire shelter carrying case. The preparing activity (6.7) will provide the contractor a set of use instructions in the format necessary for the contractor to have them printed in the necessary four color format (process black, process cyan, process magenta, and process yellow). Upon award of the contract, it is the responsibility of the contractor to contact the preparing activity (6.7) to determine the best format. Information on contacting the preparing activity (6.7) can be obtained from the contract officer.

3.3.6. Repairs.

Repairs such as mends, darns, patches, or splices are not permitted on the carrying case.

3.3.7. Piecing.

No piecing or splicing of materials is allowed.

3.3.8. Replacement of nonconforming components.

During the spreading, cutting, and manufacturing process, components having material nonconformities or damages that are classified as nonconformities in Table I shall be removed from production and replaced with conforming and properly matched components.

3.3.9. Coated cloth surface.

The coated side of the cloth shall face the inside of the case.

3.3.10. Dimensions.

All dimensions except pattern sizes are finished dimensions.

3.4. Deviations and waivers.

Deviations and waivers to the materials, construction, or components specified herein shall not be allowed unless authorized in writing by the contracting officer.

3.5. Workmanship.

All items shall conform to the quality of product established by this document and the occurrence of nonconformities shall not exceed the applicable acceptable quality levels. There shall be no nonconformities that affect use, appearance, or serviceability.

3.6. Metric products.

Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch/pound units, provided they fall within the tolerances specified using conversion tables contained in the latest revision of IEEE/ASTM SI-10, and all other requirements of this specification are met.

3.7. Recovered materials.

The contractor is encouraged to use recovered materials in accordance with Federal Acquisition Regulation 23.4 to the maximum extent practical.

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 (examinations and tests) as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his/her 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 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 nonconforming material, either indicated or actual, nor does it commit the Government to accept nonconforming material.

4.1.2. Responsibility for dimensional requirements.

Unless otherwise specified in the contract or purchase order, the contractor is responsible for assuring that all specified dimensions have been met. When dimensions cannot be examined on the end item, inspection shall be made at any point or at all points in the manufacturing process necessary to ensure compliance with all dimensional requirements.

4.1.3. Certification of compliance.

Where certificates of compliance are submitted, the Government reserves the right to check test such items to determine the validity of the certification (see 4.4.1.1).

4.1.4. Third-party certification (3.1.2).

The contractor shall enter to an agreement with a third-party certification organization (see 6.5) to certify compliance of the fire shelter carrying case to this document and to monitor the continued quality of the production. The agreement shall specifically include a follow-up program sufficient to verify continued adherence to the specifications of the contract. The contractor shall be responsible for this certification.

4.2. Classification of inspections.

The inspection requirements specified herein are classified as follows:

First article inspection (see 4.3).

Quality conformance inspection (see 4.4).

4.3. First article inspection.

Unless otherwise specified (see 6.2), first articles submitted in accordance with 3.1 and 6.4 shall be inspected as specified in Tables 1 and 2 and drawing MTDC-1002, for compliance with design, materials, construction, workmanship, and dimensional requirements (see 6.4). Presence of any nonconformity shall be cause for rejection of the first article.

4.3.1. ISO Registration.

Evidence of current ISO registration (3.1.1) shall be presented with the First Article Sample.

4.3.2. Third-party certification.

Evidence of third-party certification (3.1.2) shall be submitted with the First Article Sample, along with the test results of the tests performed in the certification process.

4.4. Quality conformance inspection.

Unless otherwise specified, sampling for inspection shall be performed in accordance with ASQ Z1.4.

4.4.1. Component and material inspection.

In accordance with 4.1, components and materials shall be inspected and tested in accordance with all the requirements of the referenced documents, drawings, and standards unless otherwise excluded, amended, modified, or qualified in this document or applicable purchase document.

4.4.1.1. Certification.

Unless otherwise specified (see 6.2), the contractor shall provide certificates of compliance, with inspection and test results, for the following:

Cloth, duck, nylon (3.2.1) - With test reports

Tape, nylon, 3/4 inch (3.2.2.1)

Webbing, nylon, 2-1/4 inch (3.2.2.2)

Thread, nylon (3.2.3)

Keeper with slide (3.2.4)

Fastener tape (3.2.5)

5100-609B

Labels (3.3.4.2)

Use instructions (3.3.5)

No thread lubrication (3.3.1.5)

Certificates shall include the following:

Specification type, class, etc.

Quantity purchased

Purchase source, address, and telephone number

Purchase date

4.4.2. In-process inspection.

Inspection shall be made at any point or during any phase of the manufacturing process to determine whether construction details that cannot be examined on the finished item are in accordance with specified requirements. This inspection shall include verification that holes drilled for location marking do not exceed 0.076-inch diameter and are placed in such a manner that each shall be covered in the finished item (see 3.3.3). Components that cannot be corrected shall be removed from production.

4.4.3. End item examination.

The end items shall be examined for the nonconformities listed in tables 1 and 2. The sample unit for these examinations shall be one completely fabricated case. The inspection level and acceptable quality level shall be in accordance with table 3.

TABLE 1. Classification of nonconformities			
Examine	Nonconformity	Major	Minor
Cloth	Any hole (except location holes), cut, or tear	X	
	Not type specified	X	
	Any abrasion mark, large slub smash, weak place, broken or missing yarns, multiple floats or open places visible at normal inspection distance (3 feet)	X	
	Needle chew	X	
	Color not as specified	X	
	Coated side of cloth not facing inward	X	
	Coating nonconforming or partially omitted on nylon cloth	X	
Webbing	Not class or type specified	X	
	Not color specified		X
	Any hole, cut, tear, or smash	X	
	Abrasion mark, slub, broken end or pick	X	
	Cut ends not fused as specified	X	
	Not firmly and tightly woven	X	
	Edges frayed or scalloped	X	
	Multiple floats		X
Hardware, general	Broken or malformed, protective finish omitted or not as specified: corroded area, burr or sharp edge	X	

5100-609B

Keeper	Slide component of keeper jams in open, partly closed or closed position	X	
	NOTE: Check operation of keeper by fully opening and closing.		
	Slide installed in reverse position		X
Open seam	1/2 inch or less		X
	More than 1/2 inch	X	
	NOTE: A seam shall be classified as open when one or more stitches joining a seam are broken, or when two or more continuous skipped stitches or runoffs occur.		
Rows of stitching Runoff (see open seam)	Any row omitted (unless otherwise classified herein)	X	
Raw edge (except on inside of case)	More than 1/2 inch when securely caught in stitching	X	
	NOTE: Raw edge not securely caught in stitching shall be classified as an open seam.		
Thread	Not type, class, or size specified	X	
	Any thread lubricated	X	
	Not color specified		X
Fastener tape	Size or type not as specified	X	
	Location not as specified	X	
	Color not as specified		X
Seam and stitch type	Seam or stitch type not as specified	X	
	Required row of stitching omitted or not located as specified	X	
Stitch tension	Loose, resulting in a loose bobbin or top thread		X
	Excessively tight, resulting in puckering of material		X
	NOTE: Nonconformities to be scored only when the condition exists for a continuous 4 inches or more, and with an accumulated distance of 8 inches or more. Applicable to individual seams.		
Stitches per inch	Up to two stitches less than minimum specified		X
	Three or more stitches less than minimum specified	X	
	Two or more stitches in excess of maximum specified		X
	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 seams or in turning corners, shall be classified as follows: (a) Within the minor nonconformity classification - no nonconformity; (b) Within the major nonconformity classification - minor nonconformity.		
Stitching margin	Exceeds specified tolerance, up to 1/16 inch		X
	Exceeds specified tolerance, over 1/16 inch	X	
	NOTE: Nonconformities to be scored only when condition exists on major portion of seam. Applicable to each individual seam.		
Stitching dimensions (overall) tolerance shown on drawings	Smaller than nominal dimensions less applicable minus nominal dimensions less twice the applicable minus tolerances		X
	Smaller than nominal dimensions less twice the applicable minus tolerance	X	
	Larger than nominal dimensions and applicable plus tolerances		X

5100-609B

Stitching ends Thread breaks, skipped stitches or runoffs	Not secured as specified		X
	Not overstitched as specified		X
	NOTE: Thread breaks or two or more consecutive skipped or runoff stitches not overstitched shall be classified as open seams.		
Components and assembly	Any component part omitted or not as specified, or any operation omitted or not as specified (unless otherwise classified herein)	X	
	Needle chews	X	
	Any mend, darn, patch, splice, or other unauthorized repair	X	
	Any material pleated or caught in stitch line where not specified		X
	NOTE: Needle holes visible as the result of broken or skipped stitching or stitching that has been removed shall not be considered as needle chews providing that the holes are spaced as in normal stitching.		
Flap	Sides of flap irregularly shaped, or not uniform on both sides		X
Horizontal and vertical hangers	Attached with one or more rows of stitching omitted (applicable to each stitch pattern)	X	
Piecing	Any piecing or splicing	X	
Cleanness	Grease, oil, dirt or ink stains, clearly noticeable		X
	Thread ends not trimmed as specified		X
Binding	Improperly or loosely applied; badly puckered		X
	Ends of binding not treated or turned under to prevent raveling, except where specified on drawing		X

TABLE 2. End item dimensional nonconformities

Examine	Nonconformities	Major	Minor
Stitching dimensions (overall) tolerance shown on drawings, but not smaller than	Smaller than nominal dimensions less applicable minus nominal dimensions less twice the applicable minus tolerances		X
	Smaller than nominal dimensions less twice the applicable minus tolerance	X	
	Larger than nominal dimensions and applicable plus tolerances		X
Fit of liner in case (see note)	Case too small, i.e., liner fails to fit properly in case	X	
	Case body or flap too short, preventing secure flap closure	X	
	NOTE: A recently manufactured Fire Shelter Liner (NSN 8465-01-498-3191) shall be used as a fit gauge. The liner shall be fully inserted in the case without effort other than that necessary to overcome friction between the liner and case. The flap shall be securely closed.		
Stitch margins	Not within specified tolerances	X	

Table 3. Inspection levels and AQL's.		
Examination	Inspection level	AQL (expressed in nonconformities per 100 units)
For nonconformities in Table 1 examination for visual nonconformities	II	2.5 major nonconformities 6.5 major and minor nonconformities combined
For nonconformities in Table 2 examination for dimensional nonconformities.	S-3	0.65 one class

4.5. Packaging inspection.

An examination shall be made to determine that preservation, packing, and marking comply with the section 5 requirements. Nonconformities shall be scored in accordance with Table 4. The sample unit shall be one shipping container fully packaged with the exception that it need not be closed. Examination of closure nonconformities listed below shall be made on shipping containers fully packaged. The lot size shall be the number of shipping containers in the end item inspection lot. The inspection level shall be S-2 and the AQL, expressed in terms of nonconformities per hundred units, shall be 2.5.

Table 4. Packaging inspection	
Component	Nonconformity
Markings	Omitted; incorrect; illegible; of improper size, location, sequence, or method of application.
Materials	Any component missing or not as specified. Any component damaged, affecting serviceability.
Workmanship	Inadequate application of components, such as incomplete closure of container flaps, improper taping, loose strapping, or inadequate stapling. Bulged or distorted container.
Contents	Number of items per container is more or less than required.

5. PACKAGING

5.1. Preservation.

Preservation shall be in accordance with ASTM D 3951 and as specified in the contract or purchase order and herein: The flap of each fire shelter case shall be fastened and the keepers closed. Ten cases shall be stacked one on top of another with the flaps alternated end for end facing downward, except the flap of the top case shall face upward. The bundle shall then be securely tied with cotton tape or twine.

5.2. Packing.

Ten bundles of 10 cases each (100 cases) preserved as specified, shall be packed into a 23.5"L X 12.25"W X 10.50"D fiberboard box, minimum burst strength 200 psi (ECT 32) meeting the requirements of the latest version of ASTM D 5118. Boxes shall be in compliance with the National Motor Freight Classification. Each box shall be closed in accordance with the latest version of ASTM D 1974.

5.3. Marking.

In addition to any special marking required by this specification, marking shall be in accordance with the contract or purchase order.

6. NOTES

6.1. Intended use.

The carrying case is designed to carry the Fire Shelter, M-2002, which is intended for emergency use by firefighters if entrapped by wildfire.

6.2. Acquisition requirements.

Acquisition documents should specify the following:

- a. Title, number, and date of the specification.
- b. When first article samples are not required.
- c. Preservation, packing, and marking required in addition to specification requirements (see section 5).

6.3. Standard shade sample.

Shade samples for the carrying case may be obtained from preparing activity by the contractor only.

6.4. First article.

Unless otherwise specified first articles are required and shall be inspected and approved under the appropriate provisions of FAR 52.209. The first article shall consist of three completely assembled cases covered under this specification and shall be preproduction samples. 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 regarding arrangements for selection, inspection, and approval of first articles.

6.5. Suggested sources.

The following Organizations are known to provide third-party certification:

Underwriter's Laboratory
12 Laboratory Drive
Research Triangle Park, NC 27709-3995
919-549-1433
www.ul.com

Safety Equipment Institute (SEI)
307 Dolley Madison BLVD Suite 3A
McLean, VA 22101
703-442-5732
www.seinet.org

Intertek
8600 NW 17th St., Suite 100
Miami, FL 33126
305-513-3000
www.intertek.com

6.6. Notice.

When Government drawings, documents, or other data are used for any purpose other than in connection with a Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever.

6.7. Preparing activity.

USDA Forest Service, National Technology and Development Program, 5785 Highway 10 West, Missoula, MT 59808.

6.8. Patent.

This item was patented with the No.: US 7,128,207 B2. Contact the preparing activity for further details.