L-S-125B
February 3, 1972
SUPERSEDING
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FEDERAL SPECIFICATION

SCREENING, INSECT, NONMETALLIC

This specification was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

1. SCOPE AND CLASSIFICATION

1.1 Scope. This specification covers the requirements for two types of screening made of plastic filaments and one type of screening made of plastic coated or impregnated fibrous glass yarn.

1.2 Classification.

1.2.1 Types, classes, and mesh sizes. The plastic screening shall be of the following types, classes, and mesh sizes, as specified (see 6.2):

Type I	- Polyvinylidene chloride filament.
Class 1	- 0.0120 inch diameter.
Class 2	- 0.0150 inch diameter.
Type II	- Plastic coated or impregnated fibrous glass yarn
Class 1	- 0.0115 inch diameter.
Class 2	- 0.0130 inch diameter.
Type III	- Polypropylene filament.
Class 1	- 0.0120 inch diameter.
Class 2	- 0.0150 inch diameter.

Mesh size 16 by 16 (types I, II and III).
Mesh size 18 by 14 (types I, II and III).
Mesh size 18 by 16 (type II).
Mesh size 18 by 18 (types I, II and III).
Mesh size 20 by 20 (types I, II and III).
Mesh size 22 by 22 (types I, II and III).

2. APPLICABLE DOCUMENTS

2.1. The following documents, of the issues in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein:

Federal Specifications:

L-P-394	- Plastic Molding Material, (Propylene Plastics, Injection and Extrusion).
EE-M-101	- Match, Safety, and Match, Nonsafety (Strike,
CCC-D-950	- Dyeing and Aftertreating Processes for Cotton cloth
PPP-B-636	- Boxes, Shipping, Fiberboard.
PPP-T-45	- Tapes, Gummed, Paper, Reinforced and Plain, for Sealing and Securing.

Federal Standards:

Fed. Std. No. 123	- Marking for Domestic Shipment (Civil Agencies).
Fed. Std. No. 141	- Paint, Varnish, Lacquer, and Related Materials; Methods of Inspection, Sampling, and Testing.
Fed. Std. No. 191	- Textile Test Methods.
Fed. Std. No. 595	- Colors.

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards, and Handbooks as outlined under General Information in the Index of Federal Specifications and Standards and at the prices indicated in the Index. The Index, which includes cumulative monthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

(Single copies of this specification and other Federal Specifications required by activities outside the Federal Government for bidding purposes are available without charge from Business Service Centers at the General Services Administration Regional Offices in Boston, New York, Washington, D.C., Atlanta, Chicago, Kansas City, Mo., Forth Worth, Denver, San Francisco, Los Angeles, and Seattle, Wash.

(Federal Government activities may obtain copies of Federal Specifications, Standards, and Handbooks and the Index of Federal Specifications and Standards from established distribution points in their agencies.)

Military Standards:

MIL-STD-105	- Sampling Procedures and Tables for Inspection by Attributes.
MIL-STD-129	- Marking for Shipment and Storage.

(Copies of Military Specifications and Standard required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2. Other publications. The following documents form a part of this specification to the extent specified herein. Unless a specific issue is identified, the issue in effect on date of invitation for bids or request for proposal shall apply:

National Motor Freight Traffic Association, Inc., Agent

National Motor Freight Classification

(Application for copies should be addressed to the American Trucking Associations, Inc., Tariff Order Section, 1616 P Street, N.W., Washington, D.C. 20036.)

Uniform Classification Committee, Agent

Uniform Freight Classification

(Application for copies should be addressed to the Uniform Classification Committee, Room 202, Union Station, 516 W. Jackson Blvd., Chicago, Illinois 60606.)

3. REQUIREMENTS

3.1 Material.

3.1.1 Type I. The plastic material used in fabrication of the screening filaments (type I) shall be a polyvinylidene chloride, pigmented to produce the color specified in 3.5.

3.1.2 Type II. The material used to coat or impregnate type II fibrous glass screening yarns shall be a compound of polymerized or copolymerized vinyl chloride resin, plasticized with phosphate or phthalate ester plasticizers exclusively, pigmented and stabilized to meet the requirements herein.

3.1.2.1 Plasticizers (optional). At the supplier’s option, plasticizers other than phosphate or phthalate may be used, provided the coating compound is treated with inhibitor [e] (solubilized copper 8-quinolinolate) of CCC-D-950 and of the color is not affected. The amount of fungicide shall be based on the nonvolatile content of the coating. The coating compound shall be chemically analyzed for copper 8-quinolinolate content in accordance with CCC-D-950.

3.1.3 Type III. The plastic material used in fabrication of the screening filaments (type III) shall be polypropylene conforming to the requirements of type II of L-P-394, pigmented to produce the color specified in 3.5.

3.2. Filaments or yarns. When tested as specified in 4.2.1, the diameter of the filaments or yarns (see 3.1.1, 3.1.2 and 3.1.3) used in fabrication of the screening, shall be as specified in table I.

Table I

Mesh size of screening	Nominal filament diameter [1], inch			
	Types I and III		Type II	
	Class 1	Class 2	Class 1	Class 2
16 by 16	-	0.0150	-	0.0130
18 by 14	-	.0150	-	.0130
18 by 16	-	-	0.0115	-
18 by 18	0.0120	-	0.0115	0.0130
20 by 20	.0120	0.0150	.0115	.0130
22 by 22	.0120	-	.0115	.0130

[1] The permissible variation in the average diameter of the filaments for types I and III screening shall be plus or minus 10 percent of the nominal diameter; for type II screening, the tolerance shall be plus or minus 0.0010 inch.

3.2.1. Tensile strength of filaments, (types I and III). The minimum average tensile strength of the filaments for types I and III, classes 1 and 2 screening shall be 20,000 p.s.i., when tested as specified in 4.2.1.

3.2.2 Elongation of filaments or yarns. the minimum elongation of the filaments for types I and III, classes 1 and 2 screening shall be 15 percent and for type II, classes 1 and 2, screening shall be 3 percent maximum, when tested as specified in 4.2.1.

3.2.3 Resistance to water immersion, (types I and III). The average change in length of the filaments shall be not greater than 2 percent. When tested as specified in 4.2.1.

3.2.4 Splices. Splices for type II screening only shall be permitted at any point of an individual yarn provided they show no tails, and do not exceed 1 inch in length. The number of splices shall not exceed one in any one square foot nor fifteen in any roll. Knots shall not be permitted.

3.3 Construction.

3.3.1. Screening, (type I). The finish screening shall be fabricated from the filaments specified in 3.1.1, and have a woven or mock selvage of at least 6 ends in each edge. The mesh of screening, when tested as specified in 4.3, shall have a variation of not more than 0.5 mesh per inch of the mesh specified.

3.3.2 Screening, (type II). The finished screening shall be fabricated from the yarns specified in 3.1.2, and have a woven or mock selvage of at least 6 ends in each edge. Except for one half inch from each side, the yarns shall be uniformly spaced on both the warp and filling directions. When tested as specified in 4.3, the mesh shall be within plus or minus 0.5 mesh per inch of the mesh specified.

3.3.3 Screening, (type III). The finished screening shall be fabricated from filament specified in 3.1.3 and shall have a woven or mock selvage of at least 6 ends in each edge. The mesh of screening, when tested as specified in 4.3, shall have a variation of not more than 0.5 mesh per inch of the mesh specified. The screening must be heat set in order to meet the requirements specified in 3.4.

3.4 Physical properties. The physical properties of the finished screening shall be as specified in table II, when tested as specified in 4.3.

TABLE II. Physical properties of screening

Mesh size	Average bursting strength, pounds per square inch (minimum)					
	Initial			After heat aging	After accelerated weathering	
	Types I and III Classes 1 and 2	Type II Class 1	Type II Class 2	Types I and III Classes 1 and 2	Types I and III Classes 1 and 2	Type II Class 1 / Class 2
16 by 16	160	-	130	136	128	- / 98
18 by 14	160	-	130	136	128	- / 98
18 by 16	-	45	-	-	-	30 / -
18 by 18	165	55	150	140	132	38 / 114
20 by 20	130	150	190	111	91	120 / 146
22 by 22	130	160	275	111	91	128 / 200

TABLE II. Physical properties of screening (cont'd)

Mesh size	Average bursting strength, pounds per square inch (minimum)					Shrinkage after heat aging, types I and III percent maximum (each direction)	Softening point types I and III, °C., minimum
	After water immersion (24 hours)			After water immersion (24 hours) and 48 hours, air-drying			
	Types I and III Classes 1 and 2	Type II Class 1	Type II Class 2	Types I and III Classes 1 and 2	Type II Class 1	Type II Class 2	
16 by 16	104	-	74	128	-	98	5	140
18 by 14	104	-	74	128	-	98	5	140
18 by 16	-	19	-	-	30	-	-	-
18 by 18	107	25	87	132	38	114	5	140
20 by 20	111	98	113	-	120	146	5	140
22 by 22	111	104	178	-	128	220	5	140

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3.5. Color.

3.5.1 Types I and III. The color of types I and III screening shall be natural, aluminum, or green not darker than No. 14036 and not lighter than No. 14077 of Fed. Std. No. 595, as specified (see 6.2.).

3.5.2 Type II. The color of type II screening shall be integrally incorporated in the plastic coating. Green shall be not darker than No. 14036 and not lighter than No. 14077, and aluminum shall fall between No. 36492 and No. 36173 of Fed. Std. No. 595.

3.6 Widths.

3.6.1 Widths, (types I and III). The overall widths of the types I and III screening shall be 24, 26, 28,30,32,36, 42, or 48 inches, as specified (see 6.2.), and the width specified shall be the minimum acceptable width.

3.6.2 Widths, (type II). The overall widths of the types II screening shall be supplied in widths from 24 to 48 inches, inclusive, in 2-inch increments, as specified (see 6.2), and the width specified shall be the minimum acceptable width.

3.7 Length. Unless otherwise specified, the screening shall be furnished in rolls containing not less than 100 linear feet and shall contain not more than three pieces per roll with no piece less than 10 linear feet in length. Each roll of screening shall weigh not more than 20 pounds.

3.8. Blocking. When tested as specified in 4.3, the screening shall show no blocking in excess of scale No. 1.

3.9. Colorfastness. The screening shall show air colorfastness in accelerated weathering, when tested as specified in 4.3.

3.10 Yarn slippage resistance. When tested as specified in 4.3, the tension required for complete slippage of the yarn shall be not less than 5.0 pounds for type II, class 2, and not less than 2.5. pounds for type II, class 1.

3.11 Heat resistance. When tested as specified in 4.3, the yarns of the type II screening shall remain unaffected after being in contact with the lighted end of a cigarette for 10.0 seconds.

3.12 Flame resistance. When tested as specified in 4.3, the screening shall not burn for longer than 10 seconds after removal of a match flame.

3.13 Workmanship. The screening shall conform to the quality and grade of product established by this specification. The occurrence of defects shall not exceed the applicable acceptable quality levels (AQLs) established herein for any examinations and tests of materials, components, and end items, as applicable.

4. QUALITY ASSURANCE PROVISIONS

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

4.1.1 Certificate 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.

4.2 Inspection. Sampling for inspection shall be performed in accordance with MIL-STD-105, except where otherwise indicated hereinafter.

4.2.1 Component and material inspection. In accordance with 4.1, components and materials shall be inspected and tested in accordance with all the requirements of referenced specifications, drawings, and standards unless otherwise excluded, amended, modified, or qualified in this specification or applicable purchase documents. Inspections shall be performed on components and materials listed in table III for the characteristics shown. The sample unit for sampling purposes shall be one cone, spool, or roll. (The sample unit for test purposes shall be 13 feet of filament or yarn.) Each test unit shall be taken from a different cone, spool, or roll of filament or yarn. The sample size shall be as listed below. The lot size for purposes of sampling shall be expressed in units of cones, spool, or rolls filaments or yarns. All requirements are applicable to the lot average. There shall be no evidence of failure to meet the specified requirements.

Lot size	Sample size
800 or less	2
801 up to and including 22,000	3
22,001 and over	5

TABLE III. Instructions for testing

Component	Characteristic	Specification reference		Number determinations per sample unit	Results reported as numerically to nearest
		Requirement	Test method		
Plastic material	Composition	3.1.1 and 3.1.2	Fed. Std. No. 191 1410 & 1540 [1]	2 (composite)	
Filament or yarn	Diameter	3.2	4.4.3	3	0.001 inch
	Tensile Strength [2]	3.2.1	4.4.5	5	Pound/square inch

TABLE III. Instructions for testing (cont'd)

Component	Characteristic	Specification reference		Number determinations per sample unit	Results reported as numerically to nearest
		Requirement	Test method		
Filament or yarn (cont'd)	Ultimate elongation	3.2.2	4.4.5	5	Percent type I and III and 0.1 percent type II
	Resistance to water immersion [2]	3.2.3	4.4.6	3	0.1 percent

[1] A certificate of compliance may be furnished in lieu of testing.

[2] Types I and III only.

4.2.2 Inspection of the end item. The end item shall be inspected for defects in accordance with classifications in 4.2.2.1, and 4.2.2.2.2.

4.2.2.1 Foot-by-foot examination. The required footage of each roll shall be examined and the visual defects classified as listed below. All defects found shall be counted regardless of their proximity one to another, except where two or more defects represent a single local condition of the screening, in which case only the more serious defect shall be counted as one defect for each warpwise foot or fraction thereof in which it occurs. The sample unit for this examination shall be 1 linear foot. The sample size shall be in accordance with inspection level II of MIL-STD-105. The AQL shall be 4.0 defects per 100 units (feet). The lot size shall be examined from each roll selected. The number of rolls from which the sample is to be selected shall be in accordance with table IV.

Defects

Broken or missing end or pick.
Crease - wrinkle - hard, embedded.
Any curled, doubled, rolled, or folded selvage.
Any cut, hole, or tear.
Damaged selvage extending into body of screening.
Floats - Any multiple floats.
Single float more than 1/4 inch in length in warp or filling direction.
Hitch-back, open place or slippage.
Jerked-in filling, slough-off, or thick place more than twice the thickness of the normal yarn.

Defects (cont'd)

Double picks, more than one in a shed.
Scalloped selvage - any indentation in excess of 1/4 inch.
Any mesh opening larger that specified regardless of the cause.
Selvage, slack or tight - causing pronounced waviness or slackness in selvage.
Width - Less than specified.
Smash - any.
Mottled or cloudy.*
Spot, stain, or streak clearly visible.*
Off shade.*
Tight end or pick - causing waviness or ridge in screening.
Not clean.
Bias or bowed filling - distortion at any point 1/2 inch or more from horizontal.
Uneven weaving (heavy or light bars).
Weak spots - any.
Uncoated or unimpregnated yarns - any (type II).**
Any knot.
Any splice, (types I and III).
More than one splice in a square foot area (type II).
Any splice more than 1 inch in length (type II).
Any splice not well made and showing tails (type II).
Wrong draw - any.

* At normal inspection distance (approximately 3 feet).

**Single ends or picks unevenly coated and giving the appearance of a streak or light colored but coated yarn shall not be scored as a defect when examined at normal inspection distance (approximately 3 feet).

TABLE IV

Lot size in feet	Sample size in rolls	Acceptance number
Up to 1200 inclusive [1]	3	0
1201 up to and including 3200	5	0
3201 up to and including 10,000	8	0
10,001 up to and including 35,000	13	0
35,001 up to and including 150,00	20	1
150,001 and over	32	2

[1] If lot contains fewer than 3 rolls, each piece in the lot shall be examined.

4.2.2.2 Length examination.

4.2.2.2.1 Examination for length of individual rolls. The required rolls shall be examined for defects listed below. The sample unit for this examination shall be one roll. The sample size and acceptance number shall be as shown in table IV. The number of rolls from which the sample is selected shall be in accordance with table IV.

Defects

Gross length less than specified minimum length.
Any piece less than 10 feet.
Any roll containing more than 3 pieces.

4.2.2.2.2 Examination for total footage in samples. The lot shall be unacceptable if the total of the actual gross lengths of rolls in the sample is less than the total of the gross lengths marked on the roll tickets.

4.2.3 Examination of preparation for delivery requirements. An examination shall be made to determine whether the packaging, packing, and marking, comply with the section 5 requirements. Defects shall be scored in accordance with the list below. The sample unit shall be one shipping container fully prepared for delivery with the exception that it need not be sealed. Defects of closure listed below shall be examined on shipping containers fully prepared for delivery. The lot size shall be the number of shipping containers in the end item inspection lot. The inspection level shall be S-2 of MIL-STD-105 and the AQL shall be 2.5 defects per 100 units.

Examine	Defect
Marking (exterior and interior)	Omitted; incorrect, illegible, of improper size, location, sequence, or method of application.
Materials	Any component missing. Any component damaged, affected serviceability.
Workmanship	Inadequate application of components such as incomplete closure of container flaps, improper taping, loose strapping, or inadequate stapling. Bulged or distorted container.
Weight	Gross weight exceeds requirements.
Content	Number of interior packages per container is more or less than required.

4.3 Testing of the end item. The methods of testing specified in Fed. Std. No. 191 and Fed. Std. No. 141, wherever applicable, and as listed in table V, shall be followed. The physical and chemical values specified in Section 3 apply to the average of the determinations made on a sample unit for test purposes as specified in the applicable test method. The lot size shall be expressed in units of 1 linear feet, full width of the finished screening. The sample size shall be as listed below. The lot shall be unacceptable if any unit fails to meet any requirement specified.

Lot size (feet)	Sample size
800 or less	2
801 up to and including 22,000	3
22,001 and over	5

Table V. Test methods

Characteristic	Specification reference		Number determinations per sample unit	Results reported as
	Requirement	Test method		
Mesh (1/2 inch from each side) warp and filling directions [1]	Table II	4.4.4	3 (each direction)	Average of 3 determinations (each direction) to nearest 0.10 meshes per inch
Blocking	3.8	4.4.9	1	Scale reading
Colorfastness to accelerated weathering	3.9.	4.4.11	1	Good, fair or poor [2]
Bursting strength:				
Initial	Table II	4.4.7	3	Average of 3 determinations to nearest 1.0 pound
Bursting strength immediately after 24 hours immersion in distilled water	Table II	4.4.7 and 4.4.10	3	Average of 3 determinations to nearest 1.0 pound

Table V. Test methods (con'd)

Characteristic	Specification reference		Number determinations per sample unit	Results reported as
	Requirement	Test method		
Bursting strength after 24 hours immersed in distilled water and 48 hours of air drying	Table II	4.4.7 and 4.4.10	3	Average of determinations to nearest 1.0 pound
Bursting strength after 240 hours of accelerated weathering	Table II	4.4.7 and 4.4.11	3	Average of 3 determinations to nearest 1.0 pound
Bursting strength after heat aging	Table II	4.4.12	3	Average of 3 determinations to nearest 1.0 pound
Shrinkage after heat aging (types I and III)	Table II	4.4.12	3	Average of 3 determinations to nearest 1.0 pound
Yarn slippage (complete) (type II only)	3.10	4.4.13	3	Average of 10 determinations to nearest 1.0 pound
Heat resistance	3.11	4.4.14	3	Pass or fail
Flame resistance	3.12	4.4.15	3	Average of 3 determinations to nearest 0.1 second
Softening point (types I and III)	Table II	4.4.8	6	Pass or fail

[1] The mesh size of screening is defined as the number of meshes per linear inch in each direction of the screening (warp and filling). Each mesh is numerically counted by the distance from one yarn to the next adjacent yarn.

[2] Good: No appreciable change in color.
Fair: Appreciable but not objectionable change in color.
Poor: Objectionable change in color.

4.4 Tests.

4.4.1 Laboratory atmospheric conditions. Laboratory atmospheric conditions for testing shall be 73.5 deg. +/-2 deg. F. and 50 +/-4 percent relative humidity.

4.4.2 Conditioning of test specimens. Unless otherwise specified herein, test specimens shall be conditioned for 24 hours at laboratory atmospheric conditions prior to testing.

4.4.3 Diameter of filament or yarn. The diameter of the filament shall be determined with a dial micrometer having an accuracy of 0.0005 inch (see 6.4). Determinations shall be made instantaneously. The average of ten determinations shall be reported.

4.4.4 Mesh. The mesh shall be determined by counting the filaments or yarn for a 1 foot length and dividing by 12. The average of 3 determinations in both warp and filling directions shall be reported.

4.4.5 Tensile properties of filaments or yarns. The tensile strength and elongation of individual filaments taken from samples shall be determined with a tensile testing machine specified in Method 5100 of Fed. Std. No. 191. The distance between the jaws shall be 10 inches. The tensile strength and elongation shall be calculated from measured values of the jaw separation at rupture. The rate of jaw separation shall be 2 inches per minute. Five filaments or yarns shall be tested and the results averaged.

4.4.6 Resistance to immersion in water, (types I and III). Three filaments, 3 inches long, shall be immersed in distilled water at 23 deg. +/-1.1 deg. C. for seven days. The lengths of the filaments shall be measured after immersion in the water. The average percentage change in length of the filaments shall be calculated from the three measurements.

4.4.7 Bursting strength. The bursting strength shall be determined in accordance with Method 5122 or Fed. Std. No. 191 except that the test specimens shall be 4 by 4 inches and the clamping surfaces shall be suitably padded to prevent cutting of the glass fibers.

4.4.8 Softening point. The softening point for types I and III shall be determined by placing a filament for one minute on a piece of brass, approximately 2 inches in diameter by 4 inches thick or larger, which has been heated to 140 deg. C. in an oven, and covering the filament with a piece of material which conducts heat slowly and which will not soften at the temperature used. A piece of paper phenolic laminate, 4 by 2 by 1/8 inch, is satisfactory. The test shall be made immediately after removal of the brass piece from the oven. The plastic shall not soften in contact with the brass at the edge of the covering material. Three filaments from the warp and three from the filling shall be tested.

4.4.9 Blocking. Blocking shall be determined as specified in Method 5872 of Fed. Std. No. 191 except that the specimen shall be folded in a "Z" fold and placed in an oven for 6 hours at 165 deg. F. with a 3 pound weight compressing the sample.

4.4.10 Bursting strength after water immersion. Six specimens, 4 by 4 inches shall be immersed in distilled water at 73.5 deg. +/- 2 deg. F. for 24 hours. The samples shall then be removed from the water and the bursting strength shall be determined as specified in 4.4.7 on three specimens while they are wet. The remaining three specimens shall be air dried for 48 hours at laboratory atmospheric conditions and then tested as specified in 4.4.7. The average of each of three determinations shall be reported.

4.4.11 Accelerated weathering. Test specimens, 4 by inches, shall be air dried and then subjected to 240 hours of accelerated weathering in accordance with Fed. Std. 141, Method 6151. The test specimen shall than be compared for solar colorfastness with the unexposed part of the screening. Immediately after the accelerated weathering period, the specimen shall be tested as specified in 4.4.7.

4.4.12 Bursting strength and shrinkage after heat aging, (types I and III). Three specimens of screening 10 by 10 inches for each test shall be heated in a circulating air oven at 75 deg. +/- 1 deg. C. for one hour. The specimens shall be laid flat on a shelf in the oven for the shrinkage test, and measurements in each direction for shrinkage shall be made on each specimen before and one hour after heat aging. The average in each direction shall be calculated from the three measurements. The bursting strength shall be performed in accordance with 4.4.7.

4.4.13 Yarn slippage resistance, (type II). Two sets of five specimens, 2 inches in width by 5 inches in length, shall be tested. One set shall have the filling parallel to the width of the specimen, and the other shall have the filling parallel to the length of the specimen. Each specimen shall be cut as shown on figure 1. The yarn slippage resistance shall be determined as specified in Fed. Std. No. 191, Method 5100. Complete slippage is defined as the separation of the specimen into two sections caused by slippage of the yarns out of the woven pattern.

4.4.14 Heat resistance, (type II). The heat resistance shall be determined by subjecting the center of a 2 by 5 inch test specimen to the lighted end of a cigarette for 10 seconds. After the 10-second period, the cigarette shall be removed and the specimen examined for conformance to 3.11. The results of three determinations shall be reported.

4.4.15 Flame resistance. The flame resistance shall be determined by subjecting a 2 by 10 inch test specimen to the flame of a match for 10 seconds. The match shall conform to type III, class 1 commercial of EE-M-101. During this test, the specimen shall be held in a vertical position. The stem of the match shall be held horizontally and its entire length shall touch or be as close as possible to the bottom of the screen during the burning operation. After the 10-second period, the flame source shall be removed and the time the specimen continues to burn shall be noted.

5. PREPARATION FOR DELIVERY.

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

5.1.1 Level A. Each roll of screening shall be packaged in a snug-fitting fiberboard box conforming to style RSC (end opening), type CF, variety SW, class domestic, grade 175 of PPP-B-636. Box closure shall be secured with 2-inch minimum width gummed paper tape conforming to type III, grade C of PPP-T-45 (see 6.3).

5.1.2 Level B (civil agencies). Screening shall be packaged in accordance with 5.1 (see 6.2).

5.1.3 Level C. Screening shall be packaged to afford adequate protection against physical damage during shipment from the supply source to the first receiving activity. The supplier may use his standard practice when it meets this requirement.

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

5.2.1 Level A. Screening of one description only, packaged as specified in 5.1, shall be packed in a snug-fitting fiberboard shipping container conforming to style RSC, grade V2s of PPP-B-636. Each shipping container shall be closed, waterproofed and reinforced in accordance with the appendix of the container specification. The weight limitations of each shipping container shall be in accordance with the requirements of the container specification.

5.2.2 Level B. Screening of one description only, packaged as specified in 5.1, shall be packed in a snug-fitting fiberboard shipping container conforming to style RSC, type CF (variety SW) or SF, class domestic, grade 2 of PPP-B-636. Each shipping container shall closed in accordance with Method II as specified in the appendix of the container specification. The weight limitations of each shipping container shall be in accordance with the requirement of the container specification.

5.2.2.1 When specified (see 6.2), the shipping container shall be a grade to V3s or V4s fiberboard box fabricated in accordance with PPP-B-636 and closed in accordance with the appendix of the container specification.

5.2.3 Level C. Screening, packaged as specified in 5.1, shall be packed in a manner to insure carrier acceptance and safe delivery at destination as the lowest transportation rate for such supplies. Containers shall be in accordance with Uniform Freight Classification Rules or National Motor Freight Classification Rules, as applicable.

5.3 Marking.

5.3.1 Civil agencies. In addition to any special marking required by the contract or order, interior packages and shipping containers shall be marked in accordance with Fed. Std. No. 123.

5.3.2 Military requirements. In addition to any special marking required by the contract or order, interior packages and shipping containers shall be marked in accordance with MIL-STD-129.

6. NOTES

6.1 Intended use. Insect screening covered by this specification is designed and woven primarily for installation in or on any dwelling, patio, screen enclosure, building or structure for the purpose of preventing the ingress of files, mosquitoes, or other insects, particularly where corrosive conditions are encountered. (Its nonstaining character and resistance to bulging on impact are advantageous in many applications.)

6.2 Ordering data. Purchasers should select the preferred options permitted herein and include the following information in procurement documents:

(a) Title, number, and date of this specification.
(b) Type, class, and mesh size required (see 1.2.1).
(c) Color required (see 3.5).
(d) Widths required (see 3.6).
(e) Length, if other than specified (see 3.7).
(f) Selection of applicable levels of packaging (see 5.1 and 5.2).
(g) When level B packaging is required for civil agencies (see 5.1.2).
(h) When weather-resistant grade fiberboard shipping containers are required for level B packing (see 5.2.2.1).

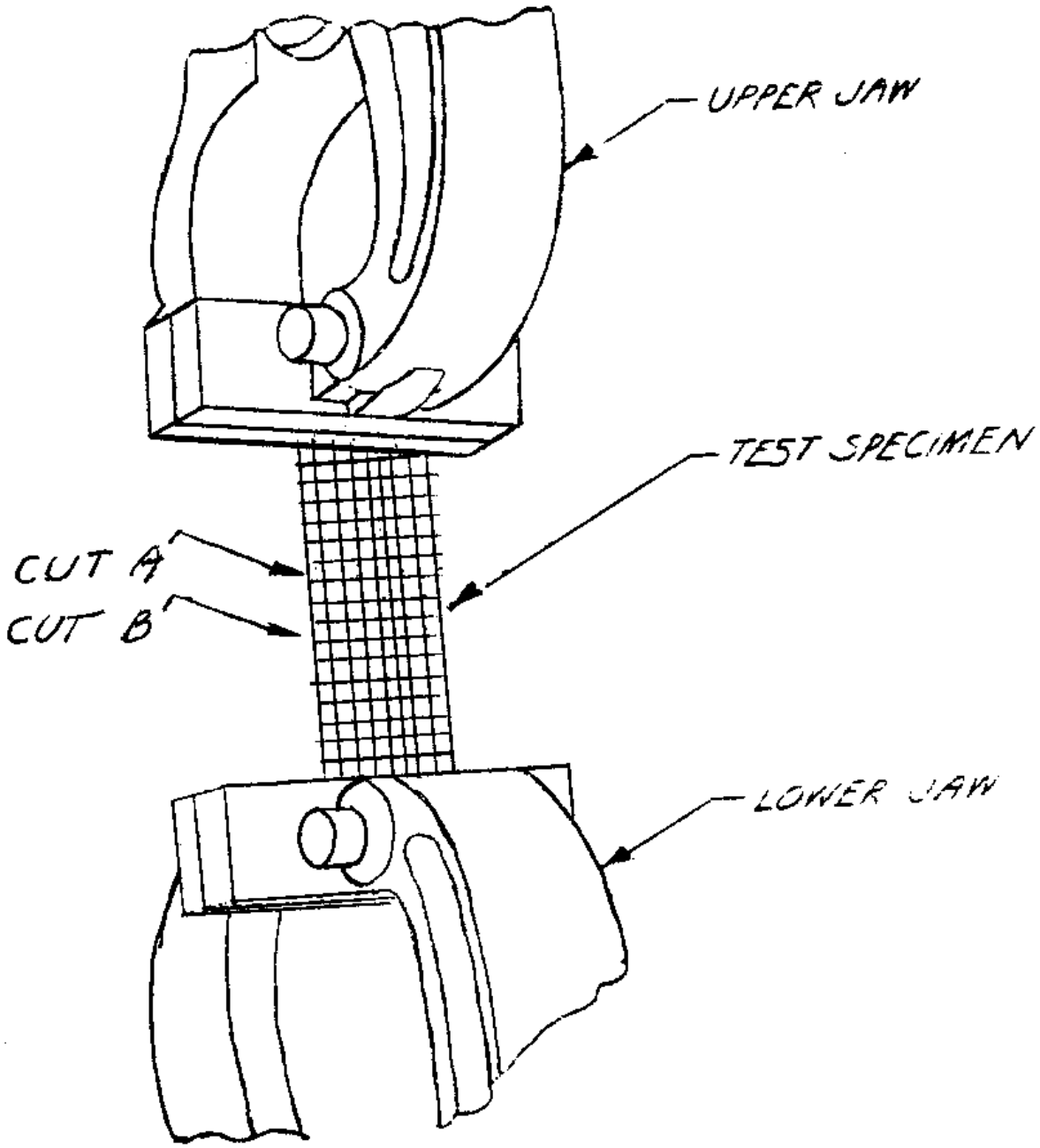

FIGURE 1 - SCREENING, NON-METALLIC, INSECT; CUT PATTERN OF SPECIMEN

6.3 When level B packaging requirements are specified for civil agency procurement, the requirements in 5.1.1 shall apply.

6.4 The Starret Dial Micrometer, Model No. 170, Manufactured by the L. S. Starret Company, Athol, Massachusetts, is suitable for the purpose intended.

MILITARY CUSTODIANS:

Army - GL
Navy - SA
Air Force - 82

Review activities:
Army - MD
Navy - MS, YD

User activities:

Army - CE
Navy - MC

Preparing activity:

Army - GL

CIVIL AGENCY INTEREST:

GSA-FSS
VA-DMS
HEW

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VALIDATION

L-S-125B
NOTICE 1
November 12, 1987

FEDERAL SPECIFICATION

SCREENING, INSECT, NONMETALLIC

Federal Specification L-S-125B dated February 3, 1972 has been reviewed and determined to be current.

Custodians:

Army - GL
Navy - NU
Air Force - 99

Preparing Activity:
Army - GL

Review Activities:

Army - EA, ME, AR
Navy - YD, MS
DLA - CT

User activities:

Army - MD
Navy - MC

FSC 8305

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