

[INCH-POUND]
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SUPERSEDING
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FEDERAL SPECIFICATION

DROPCLOTH, PAINTER'S (PLASTIC AND COTTON DUCK CLOTH)

This specification is 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 clear plastic and unbleached cotton duck painter's dropcloths.

1.2 Classification. The dropcloths shall be of the following types, classes, and sizes.

Type I - Plastic Dropcloths

- Class 1 - Fire-retardant
- Class 2 - Untreated (not fire-retardant)

Size 1 - 9 feet x 12 feet

Type II - Cotton Dropcloths

- Size 2 - 6 feet x 8 feet
- Size 3 - 10 feet x 12 feet
- Size 4 - 12 feet x 12 feet
- Size 5 - 12 feet x 15 feet
- Size 6 - 15 feet x 15 feet
- Size 7 - 20 feet x 20 feet

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: General Services Administration, Engineering Group (7FXEE), 819 Taylor St., Fort Worth, TX 76102

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2. APPLICABLE DOCUMENTS

2.1 Government publications. The documents referenced in this specification shall be the issues in effect on the date of issuance of the invitation for bids or request for proposal unless otherwise specified. These documents form a part of this specification to the extent specified.

Federal Specifications:

L-P-378 - Plastic Sheet and Strip, Thin Gauge, Polyolefin.
 V-T-285 - Thread, Polyester.
 V-T-295 - Thread, Nylon.
 CCC-C-419 - Cloth, Duck, Unbleached, Plied-Yarns, Army and
 Numbered.

Federal Standard:

FED-STD-751 - Stitches, Seams, and Stitching.

Commercial Item Description:

A-A-52094 - Thread, Cotton.

(Activities outside the Federal Government may obtain copies of Federal specifications, standards and commercial item descriptions as outlined under General Information in the Index of Federal Specifications, Standards and Commercial Item Descriptions. The Index, which includes cumulative bimonthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.)

(Single copies of this specification and other Federal specifications, standards and commercial item descriptions required by activities outside the Federal Government for bidding purposes are available without charge from General Services Administration Business Service Centers in Boston, MA; New York, NY; Philadelphia, PA; Washington, DC; Atlanta, GA; Chicago, IL; Kansas City, MO; Fort Worth, TX; Denver, CO; San Francisco, CA; Los Angeles, CA; and Seattle, WA.)

(Federal Government activities may obtain copies of Federal standardization documents and the Index of Federal Specifications, Standards and Commercial Item Descriptions from established distribution points in their agencies.)

Military Standard:

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.

(Copies of military standards may be obtained from Standardization Documents Order Desk, Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

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 the date of invitation for bids or request for proposal shall apply.

National Fire Protection Association:

NFPA No. 701 - Standard Methods of Fire Tests for Flame-Resistant Textiles and Films.

(Copies of NFPA standards may be obtained from the National Fire Protection Association, One Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.)

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.

3.1.1 Type I, plastic, polyethylene.

3.1.1.1 Class 1, fire-retardant. The plastic for type I, class 1 dropcloths shall have a film thickness of 0.0020 to 0.0030 inch conforming to type I, class 1, grade A, finish 2 of L-P-378 except that it shall be provided with fire-retardant inhibitor meeting the requirements of flame resistance specified herein. Requirements for heat seal strength, length, width, water-vapor permeability, ink adhesion and form as contained in L-P-378 shall not apply.

3.1.1.2 Class 2, untreated. The plastic for type I, class 2 dropcloths shall have a film thickness of 0.0020 to 0.0030 inch conforming to type I, class 1, finish 2 of L-P-378, except the requirements for heat seal strength, length, width, water-vapor permeability, ink adhesion, and form as contained in L-P-378 shall not apply.

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3.1.2 Type II, cotton. The cotton duck cloth for type II dropcloths shall be in accordance with type III, Army duck, of CCC-C-419.

3.1.2.1 Weight. The weight of the duck cloth shall be not less than 9.25 ounces per square yard.

3.1.2.2 Yarn ply. The yarns for the warp and filling shall be not less than 2 ply.

3.1.2.3 Yarns per inch. There shall be 52 yarns per inch in the warp direction and 40 yarns in the filling direction, except that a minus tolerance of 3 yarns per inch in either direction will be permitted provided there is a total of 92 yarns per square inch minimum (warp and filling).

3.1.2.4 Breaking strength. The breaking strength shall be not less than 125 pounds in the warp direction and not less than 110 pounds in the filling direction.

3.1.3 Thread. Sewing thread used for hemming type II dropcloths shall be 4 ply cotton thread conforming to type I, ticket no. 12 of A-A-52094. Nylon or polyester sewing thread of equivalent size and equal or greater breaking strength as the cotton thread may be provided if it meets the applicable requirements of V-T-295 or V-T-285, respectively.

3.2 Flame resistance. The flame resistance of type I, class 1 plastic dropcloths shall be such that the plastic shall not continue flaming for more than 2 seconds after removal of the test flame from the plastic film when tested in accordance with 4.6. The vertical spread of the flame and afterglow as indicated by the length of the char or destroyed material, measured from the bottom of the sample to a point where all material is sound and in original condition, shall not exceed an average length of 5-1/2 inches for all samples and 6-1/2 inches for any individual sample, when tested in accordance with 4.6. Portions of film which break or drop from the test specimen shall not continue to flame.

3.3 Construction.

3.3.1 Type I. The type I dropcloths shall be one continuous piece.

3.3.2 Type II. The type II dropcloths shall be fabricated by use of sections of cloth not less than 36 inches in width. The minimum number of pieces necessary to fabricate each size dropcloth shall be used.

3.3.2.1 Hems. Hems for the edges of type II dropcloths, except for selvage edges which do not require hems, shall be not less than 1/4 gage formed by using sewing thread specified in 3.1.3 and stitch type 401 and stitching type Efb-1 of FED-STD-751. Stitching ends, thread breaks, and two or more skipped stitches shall be overstitched not less than 1 inch by use of stitch type 301 of FED-STD-751. Stitching ends may be locked by bartacking 1/2 to 3/4 inch with a 28 stitch bartack in lieu of overstitching. Splicing of pieces of cloth to form the required size of dropcloths shall be accomplished by use of stitch type 401 and seam type LSa-2 of FED-STD-751. The number of stitches per inch shall be from 5 to 8.

3.4 Dimensional tolerances. The tolerances for the width and length of the dropcloths shall be plus 5 percent, minus 1 percent.

3.5 Marking. Type I dropcloths shall be marked for identification purposes with a permanent marking material in letters not less than 1/2 inch in height. Type I, class 1 dropcloths shall be marked with the word "NONFLAMMABLE", and type I, class 2 dropcloths shall be marked with the word "FLAMMABLE". When specified, dropcloths shall be marked with the inscription "U.S. GOV."

3.6 Workmanship. The finished dropcloths shall be clean and free of foreign matter. The dropcloths shall not exceed the number of defects listed in section 4.

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

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 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 the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

4.2 Sampling. The levels of inspection and acceptable quality levels (AQL's) shall be in accordance with MIL-STD-105.

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4.3 Lot formation. All dropcloths from the same manufacturer of the same type, class (if applicable), and size offered for delivery at one time shall be considered a lot for purposes of inspection and testing.

4.4 Sampling for visual and dimensional examination. A random sample of dropcloths shall be selected from each lot in accordance with inspection level S-4, AQL 4.0 expressed in terms of defects per hundred units. The sample unit shall be one dropcloth. The sample dropcloth shall be visually and dimensionally examined to verify compliance with table I and the remainder of this specification. All dimensions are absolute as defined in ASTM E 29.

TABLE I. Classification of defects

Examine	Defect
Construction and Workmanship	Holes, cuts, tears, or open places clearly visible at three feet Dimensions not as specified Edges containing nicks or cuts Objectionable odor (type I) Not class required (type I)
Seams and Stitching	Open seams 1/2 inch or more NOTE: A seam shall be classified as open when two or more stitches joining a seam are broken or when two or more continuous skipped stitches or run-offs occur. On double stitched seams, a seam shall be considered open when either one or both sides of seam are open. Stitching ends not overstitched or bartacked Wrong seam or stitch type Loose or tight stitch tension Two or more stitches per inch less than specified Stitching gage not as specified
Finish	Grease or oil stains clearly noticeable
Marking	Not as specified

4.5 Sampling for tests. A random sample of type I, class 1 dropcloths shall be selected from each lot in accordance with inspection level S-2, AQL 4.0 expressed in terms of percent defective. The sample unit shall be one dropcloth.

4.6 Flame resistance test. Five specimens shall be cut from each sample dropcloth. The specimens shall be 3-1/2 inches by 10 inches. The flame resistance test shall be conducted in accordance with the small scale test of NFPA 701. The specimens shall be conditioned prior to testing in accordance with paragraph 3-1.2 of NFPA 701. After completion of the test, the specimens shall be examined for conformance to 3.2.

4.7 Examination for preparation for delivery. A random sample of shipping containers shall be selected from each lot for examination of the unit, intermediate and shipping containers (as applicable) for conformance with the preservation, packaging, packing, labeling, and marking required in the contract or order. Samples shall be selected in accordance with inspection level S-2, AQL 6.5, expressed in terms of defects per hundred units.

5. PREPARATION FOR DELIVERY

5.1 Packaging, packing, and marking. The packaging, packing, and marking shall be as specified in the contract or order.

6. NOTES

6.1 Intended use. Type I, class 1 dropcloths are recommended for use in protecting all items, except floors, from paint droppings and for general protection and atmospheric conditions of interior and exterior items where a fire hazard prevails. Type I, class 2 dropcloths are intended for use as general protection where no fire hazard prevails. Type II dropcloths are recommended for use in the protection of floors from paint droppings because of the absorbent qualities of cotton, and may be used for the general protection of other items.

6.2 Ordering data. Purchasers should select the preferred options permitted herein and include the following information in procurement documents (if applicable).

- a. Title, number and date of this Federal specification.
- b. Type, class (if applicable), and size required.
- c. The packaging, packing, and marking required.

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6.3 Part Numbering. Dropcloths conforming with this specification shall be identified by a part number configuration consisting of identification of a portion of the specification number, item, and type. An example of the part number configuration is shown below. This part numbering system is intended for identification and cross-indexing of the item within the Federal cataloging system. Part numbers are not required to be placed on the product or container.

Part Numbering System for Federal Specification DDD-D-690

Example: DDDD690-111 (DDDD690-111) Example - Type I, Class 1
Size 1

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|-----Size (1, 2, 3, 4, 5, 6, or 7)
|----- Class (0-none, 1, or 2)
|----- Type (1 - I, 2 - II)
|----- General specification number

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6.4 National Stock Numbers (NSNs): The following is a list of NSNs assigned which correspond to this CID. The list may not be indicative of all possible NSNs associated with this specification.

NSN	Type	Class	Size	P/N
8340-00-068-7908	I	2	1	DDDD690-121
8340-00-205-1910	II	-	2	DDDD690-202
8340-00-205-1911	II	-	3	DDDD690-203
8340-00-205-1861	II	-	4	DDDD690-204
8340-00-205-1862	II	-	5	DDDD690-205
8340-00-205-1863	II	-	6	DDDD690-206
8340-00-205-1864	II	-	7	DDDD690-207

MILITARY INTERESTS:

NONE: DoD has determined that no military activity has an official interest in this Federal specification.

PREPARING ACTIVITY:

GSA - FSS