

[INCH-POUND]  
A-A-2800A  
September 25, 1997  
SUPERSEDING  
A-A-2800  
May 25, 1993

## COMMERCIAL ITEM DESCRIPTION

### CUSHION, CHAIR AND STOOL

The General Services Administration has authorized the use of this commercial item description (CID), for all Federal agencies.

#### 1. SCOPE

1.1 Scope. This commercial item description covers requirements for chair and stool cushions consisting of foam inserts inside cloth covers and intended for office use.

#### 2. CLASSIFICATION

2.1 Classification. The cushions shall be of the following class, style, color, and size (Table I), as specified (see 7.3).

Class 1 - Box edged cushion with woven cloth on one side and the box edge of the cushion and knitted mesh cloth on the reverse side.

Class 2 - Flat edged cushion with woven cloth cover.

Style A - Circular

Style B - Rectangular

Color a - Dark brown

Color b - Green

Table I. Finished cushion dimensions.

Size No.	Diameter <sup>1/</sup> inches (mm)	Depth <sup>1/</sup> inches (cm)	Width <sup>1/</sup> inches (cm)	Thickness <sup>1/</sup> inches (cm)
1	15 (38.1)	-----	-----	1 (2.5)
2	-----	15 (38.1)	16 (41.0)	1 (2.5)
3	-----	17.5 (44.4)	18.5 (47.0)	1 (2.5)
4	-----	15 (38.1)	16 (41.0)	1.5 (3.8)
5	-----	17.5 (44.4)	18.5 (47.0)	2 (5.1)

<sup>1/</sup> A tolerance of  $\pm 1/4$  inch (6.4 mm) shall be permitted.

#### 3. SALIENT CHARACTERISTICS

##### 3.1 Materials.

3.1.1 Cushion inserts. The cushion inserts shall be made of urethane foam or bonded urethane foam. The urethane foam shall be in accordance with ASTM D 3453, Flexible Cellular Materials - Urethane for Furniture and Automotive Cushioning, Bedding, and Similar Applications, grade number 34 or 44 (English units) and shall have a minimum polymer density of 1.6 lb/ft<sup>3</sup> (25.6 kg/m<sup>3</sup>). The bonded urethane foam shall be in accordance with ASTM D 3490, Flexible Cellular Materials - Bonded Urethane Foam, grade UBU 42 or UBU 60 and shall have a density of not less than 4.5 lb/ft<sup>3</sup> (721 kg/m<sup>3</sup>) and not greater than 6.5 lb/ft<sup>3</sup> (104.1 kg/m<sup>3</sup>). The individual shredded cellular urethane particles of which the material is composed shall not exceed 1/2 inch (12.7 mm) in diameter.

3.1.2. Cushion cover cloths. The cushion covers shall be made of woven cloth or a combination of woven cloth and knitted mesh cloth (see Table II). The woven cloth shall be a cotton and polyester blend brushed

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twill weave suitable for durable cushions and having a minimum of 50% cotton content. The knitted mesh cloth shall be polyester and paper tissue clear coated with durable synthetic resin and shall be a combination of light and dark colors in a single design. The woven and knitted mesh cloths shall meet the physical requirements in Table II and shall show good colorfastness to perspiration when tested in accordance with AATCC 15, Colorfastness to Perspiration.

Table II. Minimum requirements for cushion cover cloths.

Cloth type	Weight in oz/yd <sup>2</sup> (g/m <sup>2</sup> )	Yarns per inch (cm)		Breaking/bursting strength in lbf (N)	
		Warp/Wale	Filling/Course	Warp/Wale	Filling/Course
Woven	6.5 (216.7)	55 (21.7)	40 (16)	50 (222.5)	50 (222.5)
Knitted mesh	7.0 (233.3)	8.3 (3.3)	9 (3.6)	42 (186.9)	25 (111.3)

3.1.3 Welting. The welting shall be vinyl extruded lipped welting.

3.1.4 Sewing thread. The cushion cover shall be sewn with a spun thread of a type accepted within industry for this purpose. Thread color shall match the woven cloth.

3.2 Cushion shape. Style A cushions shall be circular. Style B cushions shall be rectangular with front corners rounded to a radius of  $1.5 \pm 0.5$  inch ( $38.1 \pm 12.7$  mm) and back corners rounded to a radius of  $4 \pm 0.5$  inch ( $101.6 \pm 12.7$  mm).

3.3 Cushion Construction. The cushion insert shall be enclosed completely by the cushion cover. All seams shall be uniform and sewn with sufficient stitches per inch to produce seams that do not slip or pull out. The cover shall be sewn from the inside except that the seam at the back of the cushion cover may be sewn from the outside to allow the cushion insert to be enclosed. No raw edges shall show on the outside of the finished cushion cover. Ends of all stitching not caught in other stitching and all thread breaks shall be secured.

3.3.1 Box-edged cushion cover. Class 1, style B, size 4 or 5 cushions shall be box-edged. One surface and the boxed edges of cushions shall be made from woven cloth and shall be the same color. The reverse surface of the cushion cover shall be made from knitted mesh cloth (see in 3.1.2.). The base color of the knitted cloth shall match the woven cloth. No raw edges shall show where the boxing is joined. The seams shall be finished with welting (see 3.1.3) extending around the entire perimeter of the top and bottom surfaces of the cushion cover. The welting shall be white or shall match the color of the cloth.

3.3.2 Flat-edged cushion cover. Class 2, style A or B, size 1, 2 or 3 cushions shall be flat at the edge(s) and shall be made from two pieces of woven cloth (see 3.1.2).

3.3.2.1 Straps for flat-edged circular cushion. Class 2, style A, size 1 (circular) cushion shall have four straps of the same cloth and color as the cover securely attached to the seam at four equidistant points. The straps shall be 10 to 13 inches (25.4 to 33.0 cm) long and  $1 \pm 1/8$  inch ( $2.5 \pm 0.5$  cm) wide. The straps shall be stitched lengthwise with the cut edges folded to the inside and the free ends hemmed or folded to the inside.

3.4 Fit and appearance. The finished cushion cover shall fit smoothly over all parts of the cushion insert. The cover shall not be pulled so tightly that the fabric shows evidence of strain or that stitches break or pull loose. The cushion cover shall fit so that the cushion is free to spread.

3.5 Fiber identification. Each cushion cover shall be labeled, ticketed, or invoiced for fiber content in accordance with the rules and regulations of the Textile Fiber Products Identification Act.

3.6 Label. Each cushion shall have a label attached conforming to the legal requirements of the state of manufacture. The label shall be at the back edge (the edge closed from the outside) of the cushion cover. The National Stock Number (NSN) shall be on each label.

3.7 Workmanship. The finished cushion shall conform to the quality of product established by this commercial item description and shall function as a comfortable, durable cushion appropriate for office use. The finished cushion shall be clean; and free from objectionable odor; any cut, hole, tear, mend, or other fabric defect; any missing component; any distortion or twisting of any component; any soil, dirt, spot, stain, burn, or needle chew; any puckered, twisted, pleated or uneven seam; any stitches not secure or uniform; loose stitch tension resulting in a loose seam; thread breaks when normal strain is applied; any raw edge of any length; any part assembled on the bias or parts not aligned; loose or uneven piping; or corner radii not as specified. The finished cushion cover shall fit the cushion insert smoothly. No defects affecting function, appearance or serviceability shall be permitted.

3.8 Measurement system. The values stated in inch-pound units are to be regarded as the standard. The metric values stated in parenthesis are for information purposes only.

3.9 Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, providing they fall within the tolerances specified and all other requirements of this document are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the contracting officer to determine if the product is acceptable.

#### 4. REGULATORY REQUIREMENTS.

4.1 Regulatory requirements. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

#### 5. QUALITY ASSURANCE PROVISIONS

5.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and quality assurance practices and be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

#### 6. PACKAGING.

6.1 Packaging. Preservation, packing, and marking shall be as specified in the contract or purchase order.

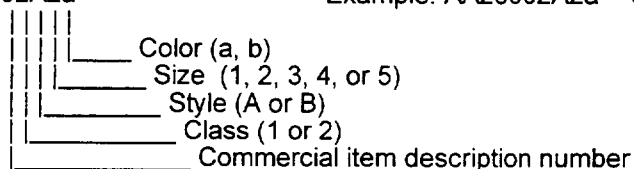
#### 7. NOTES.

7.1 Part Identification Number (PIN). Cushions conforming with this commercial item description shall be identified by a part identification number configuration consisting of identification of a portion of the CID number, class, style, size, and color. An example of the part identification number configuration is shown below. This part identification numbering system is intended for identification and cross-indexing of the item within the Federal cataloging system. The following part identification numbering procedure is for government purposes and does not constitute a requirement for the contractor.

Part Identification Numbering System for CID A-A-2800:

Example: AA28002A2a

Example: AA28002A2a = Class 2, Style A, Size 2, Color a



#### 7.2 Sources of documents.

Copies of AATCC standards and test methods are available from American Association of Textile Colorists and Chemists, P.O. Box 12215, Research Triangle Park, NC 27709-2215.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

Copies of Rules and Regulations Under the Textile Fiber Products Identification Act are available from the Federal Trade Commission, Washington, DC 20580.

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

- a) Title, number and date of this commercial item description.
- b) Class, style, color, and size required (see 2.1).
- c) Packaging, packing, and marking desired.

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7.4 National stock numbers (NSNs). The following NSNs correspond to this CID. The list may not include all possible NSNs associated with the CID.

<u>NSN</u>	<u>Class</u>	<u>Style</u>	<u>Size</u>	<u>Color</u>	<u>PIN</u>
7210-00-205-1173	2	B	2	a	AA28002B2a
7210-00-205-1174	2	A	1	a	AA28002A1a
7210-00-205-1175	2	B	3	b	AA28002B3b
7210-00-205-3544	1	B	5	b	AA28001B4b
7210-00-205-3545	1	B	4	a	AA28001B5a

MILITARY COORDINATING ACTIVITY:Custodian:

Air Force 99

Review Activities:

Air Force 84, 45

PREPARING ACTIVITY:

GSA - FSS