

[INCH-POUND]  
A-A-3123  
September 25, 1997

## COMMERCIAL ITEM DESCRIPTION

### MATTRESS, BED, FOAM

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 a reversible foam mattress intended for use in non high-risk applications.

#### 2. CLASSIFICATION.

2.1 Classification. The mattress shall be of the following size, as specified (see 7.2).

Size 1 - twin; 75 in x 38 in x 4 in (190.5 cm x 96.5 cm x 10.2 cm).

Size 2 - double; 75 in x 53 in x 4 in (190.5 cm x 134.6 cm x 10.2 cm).

#### 3. SALIENT CHARACTERISTICS.

3.1 Performance. The mattress shall be capable of functioning as a sleep mattress in non high-risk applications and shall be durable and comfortable through repeated use.

#### 3.2 Materials.

3.2.1 Cushioning material. The mattress insert shall be made of flexible, cellular, open-cell cushioning. The insert shall meet the requirements in Table I when tested in accordance with ASTM D 3574 and shall have uniform thickness and weight distribution. Any segments of cushioning cemented together shall be secure and similar in compression to the rest of the insert.

Table I. Physical characteristics of cushioning material.

Characteristic	Requirement
25% Indention Force Deflection (IFD) value	34 ± 5 lbf (151 N)
Support Factor: IFD Ratio 65%/25%, minimum	2.4
Compression set after 50% deflection, maximum	15%
Tensile strength, minimum	10 psi (703 g/sq cm)
Elongation, minimum	10%
Tear strength, minimum (lbf/in)	0.8 lbf/in (0.9 N/m)

3.2.2 Ticking. The ticking shall be flame resistant cotton twill fabric with lengthwise blue and white stripes and shall be suitable for mattress covers. The ticking shall meet the requirements in Table II when tested in accordance with the test method listed.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: General Services Administration, Engineering Branch (7FXEE), 819 Taylor Street, Fort Worth, TX 76102-6114.

A-A-3123

Table II. Physical characteristics of ticking fabric.

Characteristic	Requirement	Test Method
Weight	6.5 to 8.5 oz/sq yd (170 to 283 g/sq m)	ASTM D 3776
Breaking strength: warp filling	95 lbf (422.7 N), minimum 50 lbf (222.5 N), minimum	ASTM D 1682
Colorfastness to crocking: dry wet	4 or higher on AATCC Color Transfer Scale 3 or higher on AATCC Color Transfer Scale	AATCC 8
pH value	4.5 to 8.0	AATCC 81

3.2.3 Binding tape. Binding tape shall be flame resistant.

3.3 Construction. Design and construction of the mattress shall include all materials and processes necessary to produce a functional, durable, attractive finished mattress meeting the requirements stated herein. The finished mattress shall be flat, smooth, uniform, and correct in all dimensions.  $A \pm 1/2$  in (1.3 cm) tolerance shall be allowed in length and in width.  $A + 3/16$  in (0.5 mm),  $- 1/16$  in (0.2 cm) tolerance shall be allowed in thickness. Face-panel (top or bottom) ticking shall consist of no more than two pieces of fabric. Stripes shall run lengthwise of the mattress. Stripes, when joined at seams, shall be aligned to match. The edge ticking shall consist of no more than four pieces of ticking (all around) and any splice shall fall at the middle of a corner. The ticking shall be firmly caught in the binding tape around all the edges of the top and bottom surfaces of the insert and shall not slip out of position. Binding tape shall extend completely around both edges of the mattress; no more than three pieces of binding tape shall be used on an edge of a mattress. The four corners and the edges of the mattress shall be firm and well padded. Mattress edges shall be sharply defined.

3.4 Flammability. Mattresses shall comply with and be labeled in accordance with the provisions of CFR Part 1602-1632, Subchapter D - Flammable Fabrics Act Regulations, Standard for the Flammability of Mattresses and Mattress Pads (FF 4-72, amended).

3.5 Labeling. Each mattress shall be permanently labeled for fiber content according to the Rules and Regulations of the Textile Fiber Products Identification Act and in accordance with the legal requirements of the state of manufacture. The National Stock Number (NSN) shall be on each label. Label information may be combined when allowed by state law. Multiple labels shall be layered in one area.

3.5.1 Special marking. The following special marking shall be printed on the law label (see 3.5) and shall be clearly legible. This marking may be printed on the reverse side of the label if the front of the label alerts the user to additional information on the reverse side.

**CAUTION: THIS MATTRESS IS NOT SUITABLE FOR HIGH RISK AREAS  
SUCH AS CONFINEMENT FACILITIES.**

3.6 Workmanship. The finished mattress shall conform to the quality of product established by this commercial item description and shall function as a comfortable, durable mattress. The ticking shall be free from holes, cuts, tears, mends, soil, dirt, stains, thread pulls, weaving flaws, and other fabric defects. Seams shall be free from needle chews, puckers, pleats, open areas, raw edges, unsecured ends of stitching, loose or unclipped threads, or loose or tight stitch tension. The binding tape shall not pucker, pleat, or twist when sewn. The finished mattress shall be clean, odor free, and free of sagging appearance, uneven places, lumps, thin hollow places, corner(s) not firm, or edge(s) or corner(s) not sufficiently filled by insert. The ticking shall fit smoothly, without rippling, twisting, puckering, or excess fabric. The finished mattress shall be free of any defects affecting appearance, function, or serviceability.

3.7 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.

3.8 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 Referenced documents. The documents referenced in this commercial item description shall be the issues in effect on the date of issuance of the invitation for bids or request for proposals unless otherwise specified. These documents form a part of this commercial item description to the extent specified. In the event of a conflict between this commercial item description and a document referenced herein, this commercial item description shall take precedence.

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

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 the Code of Federal Regulations are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC, 20402 (Internet - <http://www.access.gpo.gov>).

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

7.2 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) Size (See 2.1).
- c) The preservation, packing, and marking desired.

7.3 Referenced National Stock Numbers (NSNs). 7210-00-682-6503 and 7210-00-682-6504.

A-A-3123

MILITARY COORDINATING ACTIVITY:

Custodian:

Air Force 99

Review Activities:

Air Force 84, 45

PREPARING ACTIVITY:

GSA - FSS