

METRIC

A-A-50125B
February 21, 1990
SUPERSEDING
A-A-50125A
March 11, 1988

COMMERCIAL ITEM DESCRIPTION

DESCENDER, FIGURE-8

The General Services Administration has authorized the use of this Commercial Item Description.

1. SALIENT CHARACTERISTICS

1.1 Design and construction. The figure-8 descender shall be aluminum with a soft anodized finish covering 100 percent of the surface area of the descender and shall be free of all burrs and sharp edges. The small end shall be large enough to accommodate two 12.7-mm diameter snap links. The large end shall be large enough to accommodate two 11-mm ropes. The figure-8 descender shall have a minimum breaking strength of 1800 kilograms and a maximum weight of 140 grams. The figure-8 descenders shall be capable of withstanding an 1000-kilogram pull test. Color shall be black and the manufacturer's identification symbol shall be stamped on each descender.

2. QUALITY ASSURANCE

2.1 Certification. The contractor shall certify, and maintain substantiating evidence, that the product offered meets the salient characteristics and requirements of this Commercial Item Description, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: Commander, U.S. Army Natick Research, Development, and Engineering Center, Natick, MA 01760-5014.

AMSC N/A

FSC 8465

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2.2 Visual examination. Each lot of descenders shall be inspected in accordance with MIL-STD-105. The inspection level shall be II and the acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 4.0. The lot size shall be expressed in units of descenders. The sample unit shall be one descender. The descenders shall be examined for the defects listed below:

Finish not smooth and adherent; color not as specified not free of burrs, rough spots, sharp edges, slivers, flat areas or projections; any component missing or not specified type; any component fractured, split, dented, bowed, malformed, damaged or loose; markings in wrong location, incomplete, illegible, incomplete, or not as specified.

2.3 Dimensional examination. The descenders shall be examined without damaging or disassembling the descenders. Any dimension not within the specified tolerances shall be classified as a defect. The lot size shall be expressed in units of descenders. The sample unit shall be one descender. The inspection level shall be S-3 and the AQL, expressed in terms of defects per hundred units, shall be 2.5.

2.4 Proof load test. For proof load testing any industrial testing machine may be used to determine compliance with the requirements specified in 1.1. Any desired operating speed may be used until a load of 1170 grams is reached. After reaching that point the speed shall be maintained at not more than 4 inches per minute or less than 1 inch per minute until a load of 1800 kg is reached. This load shall be maintained for not less than 10 nor more than 15 seconds. The descender shall withstand the 1800 kg load without breaking or cracking. Descenders subjected to this test shall be discarded. Any breaking, cracking or deformation shall be considered a failure. The sampling for this test shall be in accordance with MIL-STD-105. The inspection level shall be S-2. Any test failure shall be cause for rejection of the lot.

3. PACKAGING

3.1 Packaging. Twelve descenders shall be packaged in a snug-fitting intermediate box fabricated from corrugated fiberboard.

3.2 Packing. One hundred and twenty descenders packaged as specified, shall be packed in a snug-fitting RSC style corrugated fiberboard shipping container conforming to type CF, class domestic, grade 275 of PPP-B-636. The shipping container shall be completely filled with no voids and of a size that can be palletized in accordance with MIL-STD-147. Each shipping container shall be closed in accordance with the appendix of PPP-B-636.

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3.3 Palletization. When specified (see 4.2), descenders packed as specified, shall be palletized on a 4-way entry pallet in accordance with load type Ia of MIL-STD-147. Each prepared load shall be bonded with primary and secondary straps in accordance with bonding means C and D, or film bonding means F or G, in accordance with MIL-STD-147.

3.4 Marking. In addition to any special markings required by the contract or purchase order, intermediate packs, shipping containers and palletized unit loads shall be marked in accordance with MIL-STD-129.

4. NOTES

4.1 Intended use. The figure-8 descender is intended to be used to rappel down steep inclines.

4.2 Ordering data. Acquisition documents should specify the following:

- a. Title, number, and date of this document.
- b. When palletization is required (see 3.3).

4.3 Sources of documents.

4.3.1 Source of government documents. Copies of military and Federal documents are available from:

Standardization Documents Order Desk
Bldg. 4D, 700 Robbins Avenue
Philadelphia, PA 19111-5094

MILITARY INTERESTS:

Custodians

Army - GL
Navy - NU

Review Activities

DLA - CT

User Activity

Navy - MC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

PREPARING ACTIVITY:

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