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INCH-POUND

A-A-50127A
February 21, 1990
SUPERSEDING
A-A-50127
July 30, 1987

COMMERCIAL ITEM DESCRIPTION

ASCENDERS, CAM ACTION

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

1. SALIENT CHARACTERISTICS

1.1 Design and construction. The cam action ascender frames, right and left hand, shall be aluminum. The rivets and springs shall be stainless steel. The cam shall be stainless steel, steel with a corrosion resistant coating, or aluminum. There shall be a top attachment hole for use with a snaplink for hauling. There shall also be a plastic molded hand grip. The rope groove shall be large enough to accommodate a 11-mm kernmantle rope. A release latch shall be incorporated so the cam will only release the rope when the safety release latch is activitated and the cam is sprung back out of the operating position. Both the cam and safety release trigger shall operate freely without jamming. The ascender shall be capable of holding a 1000-pound minimum load when attached to an 11 mm kernmantle rope capable of withstanding the load. The aluminum frame shall be black anodized and the plastic handle shall be black. Maximum weight per pair (right and left hand) shall be 504 grams. Each item shall be marked or stamped with the manufacturers identification symbol.

2. QUALITY ASSURANCE

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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2.1 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.

2.2 Visual examination. Each lot of ascenders 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 ascenders. The sample unit shall be one ascender. The ascenders shall be examined for the defects listed below:

Color not as specified, finish not smooth and adherent; not free of burrs, rough spots, sharp edges, slivers, flat areas or projections; rivets shall be tight and properly peened.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 asnenders shall be examined without damaging or disassembling the ascenders. Any dimension not within the specified tolerances shall be classified as a defect. The lot size shall be expressed in units of ascenders. The sample unit shall be one ascender. The inspection level shall be S-3 and the AQL, expressed in terms of defects per hundred units, shall be 2.5.

3. PACKAGING

3.1 Preservation. Two ascenders, a right and a left hand, shall be matched and inserted into a close-fitting clear polyethylene bag. The bag shall be fabricated from a minimum 0.001 inch material and sealed either with a heat seal or taped.

3.2 Packaging. Eight pairs of ascenders shall be packaged in a snug-fitting intermediate box fabricated from 200-pound test corrugated fiberboard.

3.3 Packing. Forty-eight pairs of ascenders 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 containers 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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3.4 Palletization. When specified (see 4.2), ascenders 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.

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

4. NOTES

4.1 Intended use. The cam action ascenders are rope gripping devices used to aid in pulling oneself up a rope, and for self-belaying and hauling equipment.

4.2 Ordering data. Acquisition documents should specifiy the following:

a. Title, number, and date of this document.
b. When palletization is required (see 3.4).

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
Air Force - 99

Review Activities

Air Force - 82
DLA - CT

User Activity

Navy - MC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

PREPARING ACTIVITY:

Army - GL

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