

INCH-POUND

A-A-50112B

June 26, 2000

SUPERSEDING

A-A-50112A

February 21, 1990

COMMERCIAL ITEM DESCRIPTION

PITON, MOUNTAIN, ANGLE

The General Services Administration has authorized the use of this Commercial Item Description for all Federal agencies.

1. **SCOPE.** This commercial item description covers the requirements for pitons to be used to provide security for personnel or equipment in operations involving steep ascents by driving the pitons into cracks in rock.

2. **CLASSIFICATION.** The angle mountain pitons shall be of the following types:

- Type I - 4-1/4 inches long, 5/8 inch thick
- Type II - 5-5/8 inches long, 3/4 inch thick
- Type III - 5-5/8 inches long, 1-1/4 inches thick

3. **SALIENT CHARACTERISTICS.**

3.1 **Design and construction.** The pitons shall be chromium-molybdenum alloy 4130 steel. The piton shall be capable of withstanding a force of 2700 pounds when tested as specified in paragraph 3.5. The finish shall be black oxide. The manufacturer's identification symbol shall be permanently marked on the pitons. The pitons shall be similar to figure I, which is for illustrative purposes only and is not intended to preclude procurement of pitons otherwise meeting all the requirements of this document.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: Defense Personnel Support Center, Clothing and Textiles Directorate, Attn: DSCP-COET, 700 Robbins Ave, Philadelphia, PA 19111-5096.

AMSC N/A

FSC 8465

A-A-50112B

3.2 Type I. Type I pitons shall have a blade length of $4\text{-}1/4 \pm 1/8$ inches, a thickness of $5/8 \pm 1/32$ inch, and an approximate wedge of $3/4$ inch. The eye hole shall be $11/16 \pm 1/16$ inch in diameter. The piton shall weigh $3 \pm 1/2$ ounces.

3.3 Type II. Type II pitons shall have a blade length of $5\text{-}5/8 \pm 1/8$ inches, a thickness of $3/4 \pm 1/16$ inch, and an approximate wedge of $7/8$ inch. The eye hole shall be $11/16 \pm 1/16$ inch in diameter. The piton shall weigh $4\text{-}1/2 \pm 1/2$ ounces.

3.4 Type III. Type III pitons shall have a blade length of $5\text{-}5/8 \pm 1/8$ inches, a thickness of $1\text{-}1/4 \pm 1/16$ inches, and an approximate wedge of $7/8$ inch. The eye hole shall be $11/16 \pm 1/16$ inch in diameter. The piton shall weigh $5 \pm 1/2$ ounces.

3.5 Testing. All three types of angle pitons shall be pull tested in a vise. The vise opening shall consist of standard flat knurled parallel jaw. Eighty percent of the blade length of the piton shall be held firmly in the clamp. A 2700 pound minimum force shall be applied toward the apex of the "V" of the piton by insertion of a steel hook or link diameter $1/2 \pm 1/32$, bent to an inside radius at point of contact of $7/32, + 1/32, -0$ inch. Any piton that fails to withstand a minimum force of 2700 pounds without permanent deformation shall be classified as a defect. The lot size shall be all pitons of one type offered for delivery at one time. The test shall be performed at room temperature. Any industrial testing machine may be used to determine compliance with this requirement.

4. **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 to be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

5.2 Visual examination. Each item shall be examined for the defects listed below.

Defects. Finish not smooth and adherent; not free of burrs, rough spots, sharp edges, slivers, flat areas or projections; fillets not rounded smoothly; not free of forging lap; blade tapers not uniform; any component missing or not specified type; any component fractured, split, dented, bowed, malformed, damaged or loose; rivets loose and not properly peened; markings in wrong locations, incomplete, illegible, or not as specified.

5.3 Dimensional examination. The pitons shall be examined without damaging or disassembling the item. Any dimension not within the specified tolerances shall be classified as a defect. The lot size shall be expressed in units of pitons. The sample unit shall be one piton.

A-A-50112B

5.4 Acceptance criteria. Acceptance criteria shall be as specified in the contract or purchase order.

6. PACKAGING.

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

7. NOTES

7.1 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

7.2 Ordering data. Acquisition documents should specify the following:

- a. Title, number, and date of this document.
- b. Type required (see paragraph 2)

7.3 Sources of products known to meet this CID. Below is only a sampling of known suppliers and not an all-inclusive list.

1. Adventure Tech, Inc
4124 N. Burns Road
Spokane, WA 99216
2. Climb High
1861 Shelburne Road
Shelburne, Vermont 05482
3. REI (Recreational Equipment Incorporated)
www.rei.com
Sumner, WA 98352

A-A-50112B

MILITARY INTERESTS:

Custodians

Army – GL
Air Force – 99
Navy –NU

Review Activities

Air Force – 11.6
Navy - MC

CIVIL AGENCY COORDINATING ACTIVITY

GSA - FSS

PREPARING ACTIVITY:

DLA-CT

Project Number

8465-0301



Piton, Mountain, Angle

Figure I