

INCH-POUND

A-A-50651A**March 25, 1998****SUPERSEDING****A-A-50651****August 28, 1980****COMMERCIAL ITEM DESCRIPTION****BOOTS, CLIMBER'S**

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 boots intended to provide safety when worn to climb wooden poles, to work at heights as great as 90 feet, and to climb steel structures at even greater heights for long periods of time and while handling heavy tools, equipment, and materials.

2. SALIENT CHARACTERISTICS

2.1 Description. The boots shall be black welt constructed, either 10 or 16 inches in height, and fully laced with eyelets and hooks. Each boot shall have a safety box toe, steel shank, an outside counter with an extended inner side pocket, a backstay with a pull-on loop, a full length midsole, a full length nonmarking rubber outsole, a leather insole, and a logger-type heel with an extra lift to adapt to all conventional climbing irons.

3.2 Materials

3.2.1 Basic material. The uppers (see Table I), the insoles, the midsoles, and the heel wedges shall be cut from grain out leather that has been treated for water resistance and contains not less than 0.18 percent and nor more than 0.70 percent paranitrophenol fungicide (amisal and vitan are acceptable alternate fungicides for paranitrophenol). As an alternate, the midsole may be fabricated from leatherboard and the heel wedges may be fabricated from plastic.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Defense Supply Center Philadelphia, Clothing and Textiles Directorate, Attn: DSCP-FNS, 2800 South 20th Street, Philadelphia, PA 19145-5099.
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AMSC N/A**FSC 8430****DISTRIBUTION STATEMENT A. *Approved for public release; distribution is unlimited.***

A-A-50651A**TABLE I. Thickness of leather**

Components	Thickness of leather (ounces) minimum	Thickness of leather (ounces) maximum
Gusset	2-3/4	3-1/2
Vamps	5	6
Heel pad	2	3
Quarters	4-1/2	6
Counters pockets	4	6
Backstays	4	6

3.2.2. Insoles. The leather insoles shall be chrome-tanned and not less than 8 irons in thickness.

3.2.3 Midsole. The midsole, after leveling, shall be not less than 8 irons nor more than 10 irons in thickness.

3.2.4 Heel wedges. The heel wedge shall provide a minimum of 12/16 inch or a maximum of 15/16 inch of heel height measured from the outside line at the center breast line, and a minimum of 1-1/4 inches \pm 1/16 inch or a maximum of 1-3/8 inches \pm 1/16 inch at the back centerline.

3.2.5 Outsoles. The outsoles shall be fabricated of rubber and shall be not less than 16 irons in thickness. The hardness of the rubber shall be determined with a durometer in accordance with ASTM-D-2240, and shall be not less than 72 nor more than 84 before aging and not less than 72 nor more than 90 after aging for 24 hours at $100^{\circ} \pm 1^{\circ}$ C. The abrasive index before and after aging shall be 150 minimum when tested in accordance with ASTM-D-1630. The outer soles shall be rubber and shall be not less than 16 irons in thickness.

3.2.6 Safety box toes. The safety box toes shall be made from steel that will resist an impact of 75 foot-pounds when tested in accordance with ANSI Z41.1. The carbon content shall be 0.50 to 0.82 percent. The hardness shall be 44 to 54 Rockwell C Scale. The thickness shall be 0.050 to 0.055 inch.

3.2.7 Welt. The welt shall be a storm bead, black leather or plastic, and have the sole, midsole, and welt edges inked black.

3.2.8 Hardware. The nails shall be brass. The shanks shall be at least 17-gauge steel. Both the eyelets and the hooks shall be black or natural colored brass.

3.3 Lasts. The lasts on which the boots are to be made shall be supplied by the contractor.

3.4 Length, width, and sizes. The boots shall either 10 inches or 16 inches in height and in the following widths and sizes:

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<u>Widths</u>	<u>Sizes</u>
B	4 to 14-1/2
C	4 to 14-1/2
D	4 to 14-1/2
E	4 to 14-1/2
EE	4 to 14-1/2

3.5 Identification marking. Each boot shall be legibly marked either on the outside quarter, on the flesh side, on the top facing, or directly below the top facing. The marking shall consist of the manufacturer's name or trademark, the date of the contract, conformance to ANSI Z41.1 requirements, and the correct size and width of the boot. The height of the figures and the letters of the marking shall be a minimum of 9/32 inch and a maximum of 3/8 inch.

3.6 Label/tag. The label/tag shall be tied to the finished boots and the print size shall be 8 to 10 points, 1/8 \pm 1/32 inch. Each item shall be individually bar-coded. The bar coding element shall be a 13 digit national stock number (NSN). The bar-code type shall be a medium to high code density and shall be located so it is completely visible on the item when it is packaged as specified in the contract, and so that it causes no damage to the item.

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 offered 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 a similar product that is offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

5.2 Market acceptance criteria. The item offered, or a generic equivalent, must have been sold to the commercial market or to the Government.

5.3 Visual examination. Each boot shall be examined for the defects listed below.

5.3.1 Defects. Pairing; color not as specified; wrong style; inferior materials; workmanship defects; inferior leather; distortion of product; wrinkles, pleats or excess fullness in linings; operation not properly performed; protruding tack, staple or nail; any hole, cut, tear, spot or stain (outside); label (when required) missing; required markings missing, incorrect, or illegible; measurements (when required) not as specified; bar code omitted or not readable by scanner; human-readable interpretation (HRI) omitted or illegible; bar code not visible on packaged item; bar code causes damage to the item; any items not packaged in accordance with the contract or purchase order.

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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 purchase 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 Source of non-Government documents

ASTM-D- 1630 - Rubber Property - Abrasion Resistance
ASTM -D-2240 - Indentation Hardness of Rubber and Plastics by Means of a
Durometer

(Applications for copies should be addressed to American Society For Testing and Materials (ASTM), 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.)

ANSI Z41.1 - American National Standards for Personnel Protection: Protective
Footwear

(Applications for copies should be addressed to National Safety Council, P. O. Box 558, Itasca, IL 60143-0558.)

MILITARY INTERESTS:

Custodians:
Air Force - 99
Army - GL

Review Activities:
Air Force - 45, 82
Army - MD

Civil Agency Coordinating Activity:
GSA- FSS

Preparing Activity:
DLA-CT

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