



## SPECIFICATION GENERAL PURPOSE/VELD FIRE BOOTS

### 1. SCOPE

This specification covers the requirements for general purpose station, field and hiking boots that meet the requirement of Veld fire boots. The boots must conform to the specification designed to help protect the fire-fighters feet and lower legs from direct flame/heat and sprains as well as be suitable for daily operations and patrols in rugged terrain for general workers, field rangers and fire fighters. The boots must be capable of tolerating harsh fire line conditions without breaking down prematurely i.e. must not melt or shrink. The boots must be comfortable to allow the user to hike long distances on the fire line and day to day operations.

### 2. STANDARDS & COMPLIANCE

- 2.1 Preference will be given to suppliers who meet or exceed NFPA 1977 Standard on Protective Clothing and Equipment for Wildland Fire Fighting, 2005 Edition.
- 2.2 Certification/verification shall be furnished by written documentation supplied by a recognized independent third party test laboratory.
- 2.3 A sample pair of boots meeting the requirements of this specification shall be supplied upon request for inspection and verification of compliance within 10 working days.
- 2.4 The boot manufacturer **shall be certified ISO 9001** company to assure quality procedures and production capabilities.
- 2.5 The sizing of boots must start at a size 3 minimally.
- 2.6 The boot must be SABS approved.
- 2.7 The organization conforms to the Department of Trade and Industry (DTI) standards and suppliers are to adhere to the specifications. Letters of exemption from DTI must accompany quotations where acquired.
- 2.8 Suppliers must be registered on the Supplier Data Base and BEE certification included.

### 3. DESIGN REQUIREMENTS

- 3.1 Footwear items shall consist of a sole, upper, insole and shank.
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- 3.2 The quarter section of the boot shall be designed to provide an adjustable, snug fit for support around the ankle and lower leg.
- 3.3 Footwear height shall be a minimum of 200mm. The height shall be determined by measuring the inside the boot from the center of the insole at the heel up to a perpendicular reference line extending across the width of the boot at the lowest point of the top line. (As in figure 1).

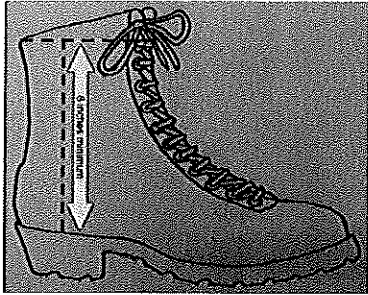


Figure 1: Footwear height

- 3.4 Material Uppers: (everything above the heel/sole)
    - Leather, 2.4 - 2.6 mm thick, waterproof
    - Stitching must be of fire resistant material
  - 3.5 Metal parts shall not penetrate from the outside into the inside at any point, unless covered.
  - 3.6 Where used, there shall be a minimum of four metal stud hooks on each side of the eye row and shall be treated against rust.
  - 3.7 Eyelets shall be constructed of coated steel, solid brass, brass-coated nickel, or nickel.
  - 3.8 All thread used to manufacture footwear shall be made of inherently flame-resistant fiber.
  - 3.9 Lace up (no zippers or slip on's)
  - 3.10 **NO steel toe or crush resistant toe shields**
  - 3.11 Sole construction:
    - The sole must be a lug type pattern sole
    - The sole must be attached to the upper by the "direct attachment method" OR the sole must be attached to the upper by contact adhesive and fire resistant stitching in a double line.
  - 3.12 Sole Material:
    - Oil resistant,
    - 300 degrees heat resistant,
    - flame resistant
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- slip resistant
- puncture resistant
- flexible enough to ensure comfort for hiking over in rugged terrain
- PU-shock absorbent

3.13 A fully gusseted tongue (fully gusseted means both sides of the tongue are stitched to the inside of the eyelet strip from bottom to top, see figure 2 sample picture).



3.14 Inner lining : inner lining especially abrasion resistant, softly padded with breathable foam

3.15 Footbed: Boots must have inner soles that are Anatomically formed, quick change, machine washable insert with excellent moisture absorption and quick drying qualities

3.16 Insole: Anatomically formed, flexible and absorbs moisture. Must be anti-penetration and constructed of Kevlar (or equivalent) for shock absorption and foot protection against piercing objects.

#### 4. WARRANTY

The manufacturer shall warrant to the original purchaser that the boots shall be free of defects in material and workmanship, under normal use and service, for a period of one year from the date of delivery.

R. Geldenhuys

8/11/2013

Date

Chairman: Provincial Veld Fire Work Group