



**RETURN BIDS TO:  
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving - PWGSC / Réception des  
soumissions - TPSGC**  
**11 Laurier St./ 11, rue Laurier**  
**Place du Portage, Phase III**  
**Core 0B2 / Noyau 0B2**  
**Gatineau, Québec K1A 0S5**  
**Bid Fax: (819) 997-9776**

**REQUEST FOR PROPOSAL  
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government  
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services  
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

**Comments - Commentaires**

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

Clothing and Textiles Division / Division des vêtements et  
des textiles  
11 Laurier St./ 11, rue Laurier  
6A2, Place du Portage  
Gatineau, Québec K1A 0S5

<b>Title - Sujet</b> BOOTS., SAFETY, DESERT/HOT WEATHER		
<b>Solicitation No. - N° de l'invitation</b> W8486-162837/A	<b>Date</b> 2016-04-12	
<b>Client Reference No. - N° de référence du client</b> W8486-162837		
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$PR-723-70784		
<b>File No. - N° de dossier</b> pr723.W8486-162837	<b>CCC No./N° CCC - FMS No./N° VME</b>	
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2016-05-30</b>		<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT
<b>F.O.B. - F.A.B.</b> Specified Herein - Précisé dans les présentes <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input checked="" type="checkbox"/>		
<b>Address Enquiries to: - Adresser toutes questions à:</b> Gravel, Sylvie		<b>Buyer Id - Id de l'acheteur</b> pr723
<b>Telephone No. - N° de téléphone</b> (613) 240-7281 ( )		<b>FAX No. - N° de FAX</b> (819) 956-5454
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>  Specified Herein Précisé dans les présentes		

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b> See Herein	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>          <b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>          <b>Signature</b>          <b>Date</b>	

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## TABLE OF CONTENTS

### PART 1 - GENERAL INFORMATION

- 1.1 SECURITY REQUIREMENT
- 1.2 REQUIREMENT
- 1.3 DEBRIEFINGS
- 1.4 TRADE AGREEMENTS
- 1.5 CANADIAN CONTENT

### PART 2 - BIDDER INSTRUCTIONS

- 2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS
- 2.2 SUBMISSION OF BIDS
- 2.3 ENQUIRIES - BID SOLICITATION
- 2.4 APPLICABLE LAWS
- 2.5 TECHNICAL DATA PACKAGE AND SEALED PATTERNS
- 2.6 TECHNICAL DATA
- 2.7 SPECIFICATIONS AND STANDARDS
- 2.8 TRANSPORTATION COSTS INFORMATION

### PART 3 - BID PREPARATION INSTRUCTIONS

- 3.1 BID PREPARATION INSTRUCTIONS

### PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

- 4.1 EVALUATION PROCEDURES
- 4.2 BASIS OF SELECTION
- 4.3 CONTRACT FINANCIAL SECURITY
- 4.4 SECURITY DEPOSIT DEFINITION

### PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

- 5.1 CERTIFICATIONS REQUIRED WITH THE BID
- 5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION

### PART 6 - RESULTING CONTRACT CLAUSES

- 6.1 SECURITY REQUIREMENT
- 6.2 REQUIREMENT
- 6.3 STANDARD CLAUSES AND CONDITIONS
- 6.4 TERM OF CONTRACT
- 6.5 AUTHORITIES
- 6.6 PAYMENT
- 6.7 INVOICING INSTRUCTIONS
- 6.8 CERTIFICATIONS
- 6.9 APPLICABLE LAWS
- 6.10 PRIORITY OF DOCUMENTS
- 6.11 DEFENCE CONTRACT
- 6.12 SACC MANUAL CLAUSES
- 6.13 MATERIALS: CONTRACTOR TOTAL SUPPLY
- 6.14 PROCEDURES FOR DESIGN CHANGE/DEVIATIONS
- 6.15 PLANT CLOSING

- 6.16 PLANT LOCATION
- 6.17 SUBCONTRATOR(S)
- 6.18 OVERSHIPMENT
- 6.19 PRE-PRODUCTION SAMPLE
- 6.20 TESTING REQUIREMENTS DURING PRODUCTION
- 6.21 SEALED PATTERNS
- 6.21 SPECIFICATIONS AND STANDARDS
- 6.22 FINANCIAL SECURITY

## **LIST OF ANNEXES**

### **ANNEX "A" - REQUIREMENT ,**

- 1. TECHNICAL REQUIREMENT
- 2. ADDRESSES
- 3. DELIVERABLES
- 4. OPTION QUANTITIES

### **ANNEX "B" - SPECIFICATION DSSPM 2-3-87-0455**

### **ANNEX "C" - PRE-PRODUCTION AND PRODUCTION TECHNICAL EVALUATION PLAN**

### **ANNEX "D" - SIZE ROLL DISTRIBUTION**

### **ANNEX "E" - PRE-AWARD TECHNICAL EVALUATION PLAN**

## **PART 1 - GENERAL INFORMATION**

### **1.1 Security Requirement**

There is no security requirement associated with this bid solicitation.

### **1.2 Requirement**

The "Requirement" is detailed under Annex A of the resulting contract clauses.

### **1.3 Debriefings**

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

### **1.4 Trade Agreements**

The requirement is subject to the provisions of the Agreement on Internal Trade (AIT).

### **1.5 Canadian Content**

The requirement is limited to Canadian goods and/or services.

## **PART 2 - BIDDER INSTRUCTIONS**

### **2.1 Standard Instructions, Clauses and Conditions**

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2016/04/04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days  
Insert: 120 days

### **2.2 Submission of Bids**

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

### **2.3 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as

such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

## **2.4 Applicable Laws**

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

## **2.5 Technical Data Package and Sealed Patterns**

The sealed patterns and the technical data package may be viewed (by appointment only) at the PWGSC regional offices below.

Public Works & Government Services Canada  
Supply Directorate  
6th floor  
1550 ave D'Estimauville  
Quebec, Que. G1J 0C7  
TEL: 418-649-2714  
FAX: 418-648-2209  
Attention: Micheline Naud ([micheline.naud@tpsgc-pwgsc.gc.ca](mailto:micheline.naud@tpsgc-pwgsc.gc.ca))

Public Works & Government Services Canada  
Place Bonaventure, South-East Portal  
800 de La Gauchetière Street West, 7th Floor  
Montreal, Quebec H5A 1L6  
TEL: 514-496-3404  
FAX: 514-496-3822  
Attention: Viviane Rouhault ([viviane.rouhault@tpsgc-pwgsc.gc.ca](mailto:viviane.rouhault@tpsgc-pwgsc.gc.ca))

Public Works & Government Services Canada  
Suite 480, 33 City Centre Drive  
Mississauga, Ont. L5B 2N5  
TEL: 905-615-2070  
FAX: 905-615-2023  
Attention: Hodan A. Ahmed ([hodan.a.ahmed@tpsgc-pwgsc.gc.ca](mailto:hodan.a.ahmed@tpsgc-pwgsc.gc.ca))

Public Works & Government Services Canada  
Suite 100, 167 Lombard Avenue  
P.O. Box 1408  
Winnipeg, Manitoba R3C 2Z1  
TEL: 204-983-3774  
FAX: 204-983-7796  
Attention: Bev Laurin ([bev.laurin@tpsgc-pwgsc.gc.ca](mailto:bev.laurin@tpsgc-pwgsc.gc.ca))

Solicitation No. - N° de l'invitation  
W8486-162837/A  
Client Ref. No. - N° de réf. du client  
W8486-162837

Amd. No. - N° de la modif.  
File No. - N° du dossier  
pr723.W8486-162837

Buyer ID - Id de l'acheteur  
pr723  
CCC No./N° CCC - FMS No./N° VME

Public Works & Government Services Canada  
Telus Plaza North  
10025 Jasper Avenue, 5th Floor  
Edmonton, AB T5J 1S6  
TEL: (780) 497-3564  
FAX: (780) 497-3510  
Attention: Nicole Boucher (wst-pa-edm@tpsgc-pwgsc.gc.ca)

Public Works & Government Services Canada  
Pacific Region, SOSB, Industrial & Commercial Products  
219 - 800 Burrard Street  
Vancouver, B.C V6Z 0B9  
TEL: 604-775-7630  
FAX: 604-775-7526  
Attention: Linda Harding ([linda.harding@pwgsc-tpsgc.gc.ca](mailto:linda.harding@pwgsc-tpsgc.gc.ca))

Department of National Defence  
National Defence Headquarters  
Printing Bureau  
45 Sacré-Coeur Blvd.  
Gatineau, Quebec K1A 0K2  
ATTN: Jean Bourassa/DSCO 4-6-2-3  
TEL: 819-939-9052 or 819-939-9058  
FAX: 819-994-9561

## **2.6 Technical Data**

In order to receive the Technical Data Package against this solicitation, bidders must provide the following details with their request:

- Company Name
- Complete mailing & physical address (p.o. box numbers not acceptable)
- Area code and telephone number
- Contact name
- E-mail address
- Solicitation Number & Closing Date

and send their request, by e-mail, to the following: [sylvie.gravel@tpsgc-pwgsc.gc.ca](mailto:sylvie.gravel@tpsgc-pwgsc.gc.ca)

It is imperative that the request be done as soon as possible to ensure timely receipt. Notwithstanding Canada must not be held responsible for untimely release of the technical data.

## **2.7 Specifications and Standards**

### **2.7.1 Canadian General Standards Board (CGSB) - Standards**

A copy of the CGSB Standards referred to in the bid solicitation is available and may be purchased from:

Canadian General Standards Board  
Place du Portage III, 6B1  
11 Laurier Street  
Gatineau, Québec  
Telephone: (819) 956-0425 or 1-800-665-CGSB (Canada only)  
Fax: (819) 956-5740  
E-mail: [ncr.cgsb-ongc@pwgsc-tpsgc.gc.ca](mailto:ncr.cgsb-ongc@pwgsc-tpsgc.gc.ca)  
CGSB Website: <http://www.tpsgc-pwgsc.gc.ca/ongc-cgsb/index-eng.html>

## 2.8 Transportation Costs Information

The Bidder is requested to provide the following information concerning transportation costs for the delivery of the units to destination:

- (a) shipping weight by unit; \_\_\_\_\_
- (b) number of items by unit; \_\_\_\_\_
- (c) cubic measurement by unit; \_\_\_\_\_
- (d) number of units per shipment: \_\_\_\_\_
- (e) name of shipping point; \_\_\_\_\_
- (f) recommended method of shipment and carrier \_\_\_\_\_
- (g) Unit cost per Destination    WB941: \$ \_\_\_\_\_    W248A: \$ \_\_\_\_\_
- (h) Total cost \$ \_\_\_\_\_

## PART 3 - BID PREPARATION INSTRUCTIONS

### 3.1 Bid Preparation Instructions

Canada requests that bidders provide their bid in separately bound sections as follows:

- Section I:        Technical Bid ( 3 hard copies)
- Section II:       Financial Bid ( 1 hard copie)
- Section III:      Certifications (1 hard copie)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation;

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and

2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

3) Green Initiatives (for PWGSC information only)

Bidders are requested to provide details of their policies and practices in relation to the following initiatives:

- environmentally responsible manufacturing;
- environmentally responsible waste disposal;
- waste reduction;
- packaging;
- re-use strategies;
- recycling.

### Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work (reference pre-award sample, Part 4, Evaluation Procedures, 4.1.1.1 Mandatory Technical Criteria).

### Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

#### 3.1.1 Exchange Rate Fluctuation

C3011T      2013/11/06      Exchange Rate Fluctuation

### Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

## PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

### 4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

#### 4.1.1 Technical Evaluation

##### 4.1.1.1 Mandatory Technical Criteria

##### Pre-Award Samples and Supporting Documentation

As part of the technical evaluation, the Bidder must demonstrate its capability of meeting the technical requirements by providing the following with its bid:

- a) a pre-award sample consisting of one (1) pair Air Force Hot Weather Safety Boots in Mondopoint size 265/104 with an extra pair of laces and removable inserts;
- b) one (1) boot Mondopoint size 265/104 cut in half lengthwise (toe to heel) to demonstrate how the boot is constructed;
- c) a laboratory analysis of the product offered showing test results for specific tests listed at Annex E, Table II of physical properties detailed in the technical requirement; and
- d) certificates of compliance listed at Annex E, Table II and as defined herein (refer to the Certificate of Compliance definition clause).

The pre-award samples will be evaluated for quality of workmanship and conformance to specified materials and measurements (refer to Annex E, Table III).

The Bidder must ensure that the required pre-award samples, test results and certificates of compliance comply with the technical requirements outlined in Annex B and E and is representative of the bid submitted. Rejection of the pre-award samples/test results/certificates of compliance will result in the bid being declared non-responsive.



The Bidder must deliver the required pre-award samples, test results and certificates of compliance at no charge to Canada and must ensure that they **are received with the bid at time and place of bid closing**. Failure to submit the required pre-award samples, test results and certificates of compliance within the specified time frame will result in the bid being declared non-responsive. The sample submitted by the Bidder will remain the property of Canada

Testing must be performed by an independent accredited laboratory establishment (unless otherwise specified) and must be in accordance with the test methods detailed in the Requirement. The laboratory report and test results must be **dated within six (6) months of the solicitation posting date**.

The requirement for a pre-award samples, test results and certificates of compliance will not relieve the successful bidder from submitting samples, test results and certificates of compliance as required by the contract terms or from strictly adhering to the technical requirement of this Request for Proposal and any resultant contract.

#### **Certificate of Compliance – Definition**

A Certificate of Compliance is a written statement from an appropriate official of the component manufacturer attesting the full compliance of the component to the specification. This document must be on official company stationery; **it must be dated within six months of the Request for Proposal posting date**; it must make reference to the applicable specification and have the original signature of the company's designated representative. Canada reserves the right to verify the statements made in the Certificate of Compliance. Full test results, demonstrating the product's compliance, will be accepted in lieu of a Certificate of Compliance.

### **4.1.2 Financial Evaluation**

#### **4.1.2.1 Mandatory Financial Criteria**

- a. The Bidder must submit firm unit prices in Canadian dollars, applicable taxes are excluded, DDP (destinations as outlined in Annex A) Incoterms 2000, transportation costs included, all applicable Customs Duties and Excise taxes included.
- b. The Bidder must submit firm unit pricing for all items and all destinations including options. The Bidder is requested to quote firm unit pricing at no more than two decimal points.

#### **4.1.2.2 SACC MANUAL CLAUSE**

A9033T 2012/07/16 Financial Capability

### **4.2 Basis of Selection**

A bid must comply with all requirements of the bid solicitation and meet all mandatory technical and financial evaluation criteria to be declared responsive.

The responsive bid with the lowest evaluated aggregate price will be recommended for award of a contract (1 contract only). Evaluation will be established using the firm quantities for the all items, including all destinations, and 100% of the option quantities.

### **4.3 Contract Financial Security**

1. If this bid is accepted, the Bidder may be required to provide contract financial security, after the bid closing date and within 10 calendar days from receipt of a written request from the Contracting Authority.
  - (a) a security deposit as defined in clause "Security Deposit Definition" in the amount of up to ten percent (10%) of the contract price.

2. Security deposits in the form of government guaranteed bonds with coupons attached will be accepted only if all coupons that are unmaturing, at the time the security deposit is provided, are attached to the bonds. The Contractor must provide written instructions concerning the action to be taken with respect to coupons that will mature while the bonds are pledged as security, when such coupons are in excess of the security deposit requirement.
3. If Canada does not receive the required financial security within the specified period, Canada may, as its discretion, accept another offer, issue a new bid solicitation, award a contract or reject all the bids.

#### **4.4 Security Deposit Definition**

1. "security deposit" means
  - (a) a bill of exchange that is payable to the Receiver General for Canada, and certified by an approved financial institution or drawn by an approved financial institution on itself; or
  - (b) a Government guaranteed bond; or
  - (c) an irrevocable standby letter of credit, or
  - (d) such other security as may be considered appropriate by the Contracting Authority and approved by Treasury Board;
2. "approved financial institution" means
  - (a) any corporation or institution that is a member of the Canadian Payments Association;
  - (b) a corporation that accepts deposits that are insured by the Canada Deposit Insurance Corporation or the "Régie de l'assurance-dépôts du Québec" to the maximum permitted by law;
  - (c) a credit union as defined in paragraph 137(6) the *Income Tax Act*;
  - (d) a corporation that accepts deposits from the public, if repayment of the deposits is guaranteed by Canadian province or territory; or
  - (e) the Canada Post Corporation.
3. "government guaranteed bond" means a bond of the Government of Canada or a bond unconditionally guaranteed as to principal and interest by the Government of Canada that is:
  - (a) payable to bearer;
  - (b) accompanied by a duly executed instrument of transfer of the bond to the Receiver General for Canada in accordance with the *Domestic Bonds of Canada Regulations*;
  - (c) registered in the name of the Receiver General for Canada.
4. "irrevocable standby letter of credit"
  - (a) means any arrangement, however named or described, whereby a financial institution (the "Issuer"), acting at the request and on the instructions of a customer (the "Applicant"), or on its behalf,
    - (i) will make a payment to or to the order of Canada, as the beneficiary;
    - (ii) will accept and pay bills of exchange drawn by Canada;
    - (iii) authorizes another financial institution to effect such payment, or accept and pay such bills of exchange; or
    - (iv) authorizes another financial institution to negotiate, against written demand(s) for payment, provided that the conditions of the letter of credit are complied with.
  - (b) must state the face amount which may be drawn against it;
  - (c) must state its expiry date;
  - (d) must provide for sight payment to the Receiver General for Canada by way of the financial institution's draft against presentation of a written demand for payment signed by the authorized departmental representative identified in the letter of credit by his/her office;
  - (e) must provide that more than one written demand for payment may be presented subject to the sum of those demands not exceeding the face amount of the letter of credit;

- (f) must provide that it is subject to the International Chamber of Commerce (ICC) Uniform Customs and Practice (UCP) for Documentary Credits, 2007 Revision, ICC Publication No. 600. Pursuant to the ICC UCP, a credit is irrevocable even if there is no indication to that effect; and
- (g) must be issued (Issuer) or confirmed (Confirmer), in either official language, by a financial institution that is a member of the Canadian Payments Association and is on the letterhead of the Issuer or Confirmer. The format is left to the discretion of the Issuer or Confirmer.

## PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period. The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

### 5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

#### 5.1.1 Integrity Provisions – Declaration of Convicted Offences

In accordance with the *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politiquepolicy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, to be given further consideration in the procurement process.

### 5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

#### 5.2.1 Integrity Provisions – Required Documentation

In accordance with the *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politiquepolicy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

#### 5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the Employment and Social Development Canada (ESDC) - Labour's website ([http://www.esdc.gc.ca/en/jobs/workplace/human\\_rights/employment\\_equity/federal\\_contractor\\_program.page?&\\_ga=1.229006812.1158694905.1413548969](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969)).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

### 5.2.3 Additional Certifications Precedent to Contract Award

#### 5.2.3.1 Canadian Content Certification

##### 5.2.3.1.1 SACC Manual clause A3050T (2014/11/27) Canadian Content Definition

##### **Canadian Content Certification**

This procurement is limited to Canadian goods.

The Bidder certifies that:

( ) the good(s) offered are Canadian goods as defined in paragraph 1 of clause A3050T.

##### **Plant Location**

Items will be manufactured at: \_\_\_\_\_

#### 5.2.3.2 Samples and Production Certification

The Bidder certifies that:

( ) the manufacturer that produced the pre-award samples will remain unchanged for the pre-production samples and full production of the contract quantity.

### **PART 6 - RESULTING CONTRACT CLAUSES**

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

#### **6.1 Security Requirements**

There is no security requirement applicable to this Contract.

#### **6.2 Requirement**

The Contractor must provide the items detailed under the "Requirement" at Annex A.

#### **6.3 Standard Clauses and Conditions**

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

##### **6.3.1 General Conditions**

2030 (2016/04/04), General Conditions - Goods (Higher Complexity), apply to and form part of the Contract.

#### **6.4 Term of Contract**

##### **6.4.1 Delivery Required (Desirable) - Firm Quantity**

It is requested that delivery commence within 30 calendar days after the receipt of the written notice of approval of the pre-production samples.

##### **Delivery - Firm Quantity - Phased**

The first delivery must be made within \_\_\_\_\_ calendar days from the date of the written notice of approval of pre-production samples. The quantity delivered must be \_\_\_\_\_ pairs. The balance must be delivered at the rate of \_\_\_\_\_ pairs weekly after the first delivery until completion of the Contract.

#### **Delivery - Option Quantity 1**

The delivery of the option 1 quantity must commence within \_\_\_\_\_ calendar days from receipt of the contract amendment and after final delivery of the contract quantity. The quantity delivered must be \_\_\_\_\_ pairs. The balance must be shipped at a rate of \_\_\_\_\_ pairs weekly after the first delivery until completion of the option quantity.

#### **Delivery - Option Quantity 2**

The delivery of the option 2 quantity must commence within \_\_\_\_\_ calendar days from receipt of the contract amendment and after final delivery of the option 1 quantity. The quantity delivered must be \_\_\_\_\_ pairs. The balance must be shipped at a rate of \_\_\_\_\_ pairs weekly after the first delivery until completion of the option quantity.

#### **6.4.1.1 Delivery - Appointments**

The Contractor must make deliveries to Canadian Forces (CF) Supply Depots by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the Depot Traffic Section at the appropriate location shown below. The consignee may refuse shipments when prior arrangements have not been made.

- (a) 7 CF Supply Depot Lancaster Park  
Edmonton, Alta  
780-973-4011, ext. 4524
- (b) 25 CF Supply Depot Montreal  
Montreal, Qué.  
514-252-2777, ext. 2363  
E-mail : 25dafctrfficrdv@forces.gc.ca

#### **6.4.1.2 Preparation for Delivery**

The Contractor must prepare the items for delivery in accordance with Canadian Forces Transportation Packaging Orders (CFTPO) as outlined in the Technical Data Package.

#### **6.4.1.3 Shipping Instructions - Delivery at Destination**

1. Goods must be consigned to the destination specified in the Contract and delivered:

- (a) Delivered Duty Paid (DDP) (Montreal, Quebec and Edmonton, Alberta) Incoterms 2000 for shipments from commercial contractor.

#### **6.4.1.4 SACC Manual Clauses**

D5545C 2010/08/16 ISO 9001:2008 - Quality Management Systems - Requirements (QAC C)  
D6010C 2007/11/30 Palletization

### **6.5 Authorities**

#### **6.5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Sylvie Gravel  
Public Works and Government Services Canada  
Acquisitions Branch  
Commercial and Consumer Products Directorate (CCPD)  
Clothing & Textiles Division  
Place du Portage, Phase III, 6A2  
11 Laurier Street  
Gatineau, Quebec K1A 0S5

Solicitation No. - N° de l'invitation  
W8486-162837/A  
Client Ref. No. - N° de réf. du client  
W8486-162837

Amd. No. - N° de la modif.  
File No. - N° du dossier  
pr723.W8486-162837

Buyer ID - Id de l'acheteur  
pr723  
CCC No./N° CCC - FMS No./N° VME

Telephone : 613-240-7281 Facsimile: 819-956-5454  
E-mail address: sylvie.gravel@tpsgc-pwgsc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

#### **6.5.2 Technical Authority**

The Technical Authority for this Contract is:

##### **Mailing/Shipping Address**

Department of National Defence  
101 Colonel By Drive  
Ottawa, Ontario  
K1A 0K2

Attn: DSSPM: \_\_\_\_\_

E-mail: \_\_\_\_\_ (to be advised at contract)

The Technical Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

#### **6.5.3 Procurement Authority**

The Procurement Authority for the Contract is:

Department of National Defence  
101 Colonel By Drive  
Ottawa, Ontario  
K1A 0K2

Attn: DLP \_\_\_\_\_ (to be advised at contract)

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

#### **6.5.4 Contractor's Representative**

The person responsible for :

##### **General enquiries**

Name: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

Facsimile No.: \_\_\_\_\_

E-mail address: \_\_\_\_\_

##### **Delivery follow-up**

Name: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

Facsimile No.: \_\_\_\_\_

E-mail address: \_\_\_\_\_

## **6.6 Payment**

### **6.6.1 Basis of Payment – Firm Unit Prices**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices, as specified in Annex A for a cost of \$\_\_\_\_\_ (*amount to be inserted at contract award*). Customs duties are included and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

### **6.6.2 SACC Manual Clauses**

H1001C 2008/05/12 Multiple Payments

## **6.7 Invoicing Instructions**

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:

a) One (1) copy must be forwarded to the following address :

National Defence Headquarters  
MGen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
Attn: DLP 3-2-2  
Email: \_\_\_\_\_ (*to be inserted at contract award*)

(b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

(c) The original and one (1) copy must be forwarded to the consignee for certification and payment.

## **6.8 Certifications and Additional Information**

### **6.8.1 Compliance**

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

### **6.8.2 SACC Manual Clauses**

A3060C 2008/05/12 Canadian Content Certification

## **6.9 Applicable Laws**

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.



## 6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- a) the Articles of Agreement;
- b) the general conditions 2030 (2016/04/04), General Conditions - Goods (Higher Complexity);
- c) Annex A, Requirement;
- d) Annex B, Specifications DSSPM 2-3-87-0455
- e) Annex C, Pre-Production and Production Technical Evaluation Plan
- f) Annex D, Size Roll Distribution
- f) Sealed patterns, DSSPM DSSPM 371-05 and DSSPM 385-05
- g) the Contractor's bid dated \_\_\_\_\_.

## 6.11 Defence Contract

SACC *Manual* clause A9006C (2012/07/16) Defence Contract

## 6.12 SACC Manual Clauses

C2801C 2014/11/27 Priority Rating - Canadian-based Contractors

## 6.13 Materials: Contractor Total Supply

The Contractor will be responsible for obtaining all materials required in the manufacture of the item(s) Specified. The delivery stated for the item allows the necessary time to obtain such materials.

## 6.14 Procedures for Design Change/Deviations

The Contractor must follow these procedures for any proposed design change/deviation to contract specifications.

The Contractor must complete Part 1 of the Design Change/Deviation form DND 675 and forward one (1) copies to the Technical Authority and one (1) copy to the Contracting Authority.

The Contractor will be authorized to proceed upon receipt of the design change/deviation form signed by the Contracting Authority. A contract amendment will be issued to incorporate the design change/deviation in the Contract.

## 6.15 Plant Closing

The Contractor's plant closing for Christmas and Summer holidays are as follows. During this time there will be no shipments.

2016-2017		
Summer Holiday	FROM _____	TO _____
Christmas Holiday	FROM _____	TO _____
2017-2018		
Summer Holiday	FROM _____	TO _____
Christmas Holiday	FROM _____	TO _____
2018-2019		
Summer Holiday	FROM _____	TO _____
Christmas Holiday	FROM _____	TO _____
2019-2020		
Summer Holiday	FROM _____	TO _____
Christmas Holiday	FROM _____	TO _____



#### 6.16 Plant Location

Items will be manufactured at: \_\_\_\_\_

#### 6.17 Subcontractor(s)

The following subcontractor(s) will be utilized in the performance of the contract.

Name of Company: \_\_\_\_\_

Location: \_\_\_\_\_

Value of subcontract: \$ \_\_\_\_\_

Nature of subcontracting work performed: \_\_\_\_\_

Subcontractors, other than those listed above, may not be utilized without the written permission of Canada.

#### 6.18 Overshipment

Overshipment will not be accepted unless prior approval is obtained from the Contracting Authority.

#### 6.19 Pre-Production Sample

1. The Contractor must provide a pre-production sample of one (1) pair of Air Force Hot Weather (Desert) Safety Boots in Mondopoint size 265/104 with an extra pair of laces and removable inserts accompanied by the sealed patterns if applicable, to the Technical Authority for acceptance within 21 calendar days from date of contract award (refer to Annex C, paragraphs 1.5 to 1.5.1.1.4 and Table III).
2. If the pre-production sample is rejected, the Contractor must submit a second pre-production sample within 21 calendar days of notification of rejection from the Technical Authority.
3. If the pre-production sample is accepted by either full acceptance or conditional acceptance, the Contractor must proceed with production as per the Contract requirements.
4. Rejection by the Technical Authority of the second pre-production sample submitted by the Contractor for failing to meet the contract requirements will be grounds for termination of the Contract for default.
5. The Contractor must carry out all required inspection and tests to verify conformance to the technical requirements of the Contract.
6. In addition to providing the pre-production sample, the Contractor must provide a copy of the inspection reports and laboratory test reports and Certificates of compliance, as indicated in Annex C, Table II to the Contracting Authority and Technical Authority, transportation charges prepaid, and without charge to Canada. Refer to the definitions of laboratory test reports and Certificates of Compliance hereunder.
7. The pre-production sample submitted by the Contractor will remain the property of Canada.
8. The Technical Authority will notify the Contractor, in writing, of the full acceptance, conditional acceptance, or rejection of the pre-production sample, test results and Certificates of Compliance. A copy of this notification will also be provided by the Technical Authority to the Contracting Authority. The notice of the full acceptance or conditional acceptance does not relieve the Contractor from complying with all requirements and conditions of the Contract.
9. The Contractor must not commence or continue with production of the items and must not make any deliveries until the Contractor has received a written notification from the Technical Authority that the pre-production sample, test results, and Certificates of Compliance are fully acceptable or conditionally acceptable. Any production of items before acceptance will be at the sole risk of the Contractor.

10. The pre-production sample may not be required if the Contractor is currently in production. The request for waiver of pre-production sample must be made by the Contractor in writing to the Contracting Authority. The waiving of this requirement will be at the sole discretion of the Technical Authority and will be evidenced through a contract amendment.

#### **Certificate of Compliance - Definition**

A Certificate of Compliance is a written statement from an appropriate official of the component manufacturer attesting the full compliance of the component to the specification. This document must be on official company stationery; it must be dated within six (6) months of the solicitation posting date; it must make reference to the applicable specification and have the original signature of the company's designated representative. Canada reserves the right to verify the statements made in the Certificate of Compliance. Full test results, demonstrating the product's compliance, will be accepted in lieu of a Certificate of Compliance.

#### **Laboratory Analysis - Definition**

Testing must be performed by an independent accredited laboratory establishment (unless stated otherwise) and must be in accordance with the test methods detailed in the technical requirements. The laboratory report and test results must be dated after contract award date.

### **6.20 Testing Requirements during Production**

The Contractor must provide test results for evaluation as requested in Annex C, Table IV.

### **6.21 Sealed Patterns - Return to Sender**

The sealed patterns which may have been sent to the Contractor, are to be returned to the sender upon completion of Contract.

The sealed patterns are not to be mutilated or cut, and must be returned in the same condition as sent to the Contractor.

### **6.22 Specifications and Standards**

#### **6.22.1 Canadian General Standards Board (CGSB) - Standards**

A copy of the CGSB Standards referred to in the Contract is available and may be purchased from:

Canadian General Standards Board  
Place du Portage III, 6B1  
11 Laurier Street  
Gatineau, Québec  
Telephone: (819) 956-0425 or 1-800-665-CGSB (Canada only)  
Fax: (819) 956-5740  
E-mail: [ncr.cgsb-ongc@pwgsc-tpsgc.gc.ca](mailto:ncr.cgsb-ongc@pwgsc-tpsgc.gc.ca)  
CGSB Website: <http://www.tpsgc-pwgsc.gc.ca/ongc-cgsb/index-eng.html>

### **6.23 Financial Security**

1. Canada may convert the security deposit to the use of Canada if any circumstance exists which would entitle Canada to terminate the Contract for default, but any such conversion will not constitute termination of the Contract.

2. Where Canada so converts the security deposit:

(a) the proceeds will be used by Canada to complete the Work according to the conditions of the Contract, to the nearest extent that it is feasible to do so and any balance left will be returned to the Contractor on completion of the warranty period; and

- (b) if Canada enters into a Contract to have the Work completed, the Contractor will:
  - (i) be considered to have irrevocably abandoned the Work; and
  - (ii) remain liable for the excess cost of completing the Work if the amount of the security deposit is not sufficient for such purpose. "Excess cost" means any amount over and above the amount of the Contract Price remaining unpaid together with the amount of the security deposit.

3. If Canada does not convert the security deposit to the use of Canada before completion of the contract period, Canada will return the security deposit to the Contractor within a reasonable time after such date.

4. If Canada converts the security deposit for reasons other than bankruptcy, the financial security must be reestablished to the level of the amount stated above so that this amount is continued and available until completion of the contract period.

## ANNEX «A» REQUIREMENT

### 1. TECHNICAL REQUIREMENT

The Contractor is required to provide Canada for the Department of National Defence (DND) with Boots, Safety, Desert/Hot Weather, Tan, Nubuck Leather, Air Force in accordance with the specification DSSPM 2-3-87-0455 dated April 4, 2016 and the sealed patterns.

### 2. ADDRESSES

Destination Address	Invoicing Address
<b>WB941</b> Department of National Defence 25 CFSD Montreal 6363 Notre Dame St. E. Montreal, Quebec H1N 1V9	<b>W1941</b> Department of National Defence CFSD Montreal P.O. Box 4000 Stn K Montreal, Quebec H1N 3R9 Attention: Accounts payable
<b>W248A</b> Department of National Defence 7 CF Supply Depot 195 Ave & 82nd St., Bldg. 236 Edmonton, Alberta T5J 4J5	<b>W2481</b> Department of National Defence 7 CF Supply Depot Stn Forces, P.O. Box 10500 Edmonton, Alberta T5J 4J5 Attention: Accounts payable

### 3. DELIVERABLES

#### CONTRACT QUANTITY

##### Firm Quantity

Item	Description & Nato Stock Number	Unit of Issue	Destination	Firm Quantity	Firm Unit Price, DDP, Transportation costs included, Applicable taxes extra
1	NSN 8430-20-002-0455 Boots, Safety, Desert/Hot Weather, Tan, Nubuck Leather, Air Force	Pair	Edmonton	150	\$ _____
			Montreal	225	\$ _____

Refer to Annex D for the Size Roll

**OPTION 1**

Item	Description	Estimated Quantity	Unit of Issue	Firm Unit Price, DDP, Transportation costs included, Applicable taxes extra
2	NSN 8430-20-002-0455 Boots, Safety, Desert/Hot Weather, Tan, Nubuck Leather, Air Force	maximum 375	Pairs	\$ _____

**OPTION 2**

Item	Description	Estimated Quantity	Unit of Issue	Firm Unit Price, DDP, Transportation costs included, Applicable taxes extra
3	NSN 8430-20-002-0455 Boots, Safety, Desert/Hot Weather, Tan, Nubuck Leather, Air Force	maximum 375	Pairs	\$ _____

**4. OPTION QUANTITIES - Identified as Items 2 and 3**

The Contractor grants to Canada the irrevocable option to acquire the goods described under items 2 and 3 and under the same terms and conditions and at the prices stated in the Contract. Two (2) options may be exercised for a minimum of 187 pairs up to a maximum of 375 pairs per option, distributed amongst the sizes and destinations. The options may only be exercised by the Contracting Authority and will be evidenced through a contract amendment. Only one (1) amendment per option may be issued.

The Contracting Authority may exercise the options as follows:

Option 1: within 24 months after contract award date by sending a written notice to the Contractor.

Option 2: within 36 months after contract award date by sending a written notice to the Contractor.

A size roll will be provided if and when the option is exercised.

**NOTE:**

Sizes of boots, not originally purchased in the firm quantities, may be ordered (refer to the Size Roll at Annex E, Table VIII for a list of all sizes).

ANNEX B  
W8486-162837

DSSPM 2-3-87-0455

Dated 4 April 2016

Supersedes

DSSPM 2-3-87-0455

Dated 29 May 2007



National  
Defence

Défense  
nationale



## NOTICE

This document has been examined by the Technical Authority for content and confirmed that it has no references to controlled goods

## SPECIFICATION

## FOR

**BOOTS, SAFETY, DESERT/HOT WEATHER,  
TAN, NUBUCK LEATHER, AIR FORCE**

**NSN 8430-20-002-0455**

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OPI/BPR: DSSPM 2-3 / DAPES 2-3

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**Canada**

©Her Majesty in Right of Canada as represented by the Minister of National Defence, 2016

©Sa Majesté la Reine en chef du Canada représentée par le Ministre de la Défense nationale, 2016

**SPECIFICATION**  
**FOR**  
**BOOTS, SAFETY, DESERT/HOT WEATHER,**  
**TAN, NUBUCK LEATHER, AIR FORCE,**  
**NSN 8430-20-002-0455 A/A**

**1.0 SCOPE**

1.1 Scope. - This specification defines the technical requirements, including design, construction, and physical and chemical properties of materials, for the production of Desert/Hot Weather, Safety Boots worn by Air Force (AF) personnel.

1.2 Intended Use

1.2.1 The Boots, Safety, Desert/Hot Weather, AF are intended for use by aircrew, groundcrew and support personnel in the air elements as well as non-air element personnel employed in support of CC3 operations.

1.2.2 The boots will provide enhanced foot protection and comfort for operations in desert/hot weather conditions within the ambient temperature range of +10° C. to +40° C. and ensure the required levels of safety for toe protection, puncture protection, electrical shock resistance and fire resistance are met. Personnel are required to carry out a full range of tasks in diverse work environments, including the cockpit, flight line, warehouse, office and the field.

1.2.3 The combat sock system consisting of three socks is worn with this boot: a liner sock, a medium weight (temperate) sock and a heavy weight (thermal) sock. This sock system allows the user to choose the level of thermal protection required to address personal variables in work rate, metabolism and environmental conditions.

**2.0 APPLICABLE DOCUMENTS**

2.1 The following documents or portions thereof are referenced within this specification and must be considered part of the requirement for the Boots, Safety, Desert/Hot Weather, AF. The edition in effect on the date of the Request For Proposal is the applicable edition unless otherwise specified.

2.2 Government Documents. - The Government will provide the documents listed below. Additional copies may be obtained from the Department of National Defence, Ottawa, Ontario, K1A 0K2, Attention: DSCO 4-7-5.

D-87-001-176/SF-001 Thread, Nylon, (Twisted, Machine)

CFTPO – LOTB Canadian Forces Transportation Packaging Order

2.3 Other Publications. - The Government does not provide the documents listed below. These documents may be purchased from the sources shown.

Canadian General Standards Board Sales Unit  
11 Laurier St, Place du Portage, Phase III, 6B1  
Gatineau, Quebec, K1A 1G6

CAN/CGSB-4.131 Cotton-Covered or Polyester-Covered Polyester Thread



CAN/CGSB-4.2-M

Textile Test Methods

Method 5.1 Mass

Method 14 Thickness

Method 23 Colourfastness to Perspiration

American Society for Testing and Materials (ASTM)

100 Barr Harbor Drive

West Conshohocken, Pennsylvania, 19428, U.S.A

D624	Rubber Property - Tear Resistance
D737	Air Permeability of Textile Fabrics
D1052	Measuring Rubber Deterioration - Cut Growth Using Ross Flex
D1630	Rubber Property - Abrasion Resistance (NBS Abraded)
D1682	Breaking Load and Elongation of Textile Fabrics
D2099	Dynamic Water Resistance of Shoe Upper Leather by the Maeser Water Penetration Test
D2210	Grain Crack and Extension by the Mullen Test
D2212	Slit Tear Resistance of Leather
D2240	Rubber Property - Durometer Hardness
D2261	Tearing Strength of Fabric by the Tongue (Single Rip) Procedure
D2617	Total Ash in Leather
D2807	Chromic Oxide in Leather (Perchloric Acid Oxidation)
D2810	pH in Leather
D3273	Resistance to Growth of Mould
D3495	Hexane Extraction in Leather
D3574	Flexible Cellular Materials
D3776	Mass Per Unit Area (Weight) of Fabric
D4705	Stitch Tear Strength of Leather, Double Hole
D4786	Stitch Tear Strength, Single Hole
D5034	Breaking Strength
D5729	Thickness of Non-Woven Fabrics
E18	Rockwell Hardness of Metallic Objects



American Association of Textile Chemists and Colorists (AATCC),  
P.O. Box 12215, Research Triangle Park, North Carolina, U.S.A. 27709

Test Method 8                      Colourfastness to Crocking

Standardization Documents Order Desk,  
Building 4D, 700 Robbins Avenue, Philadelphia, Pennsylvania, U.S.A. 19111-5094

FED-STD-311                      Leather Methods of Sampling and Testing  
Method 3021 Staining  
Method 8112 Water Absorption

FED-STD-601                      Rubber: Sampling and Testing  
Method 6001 Volume Swell  
Method 6211 Volume Swell

Shoe and Allied Trades Research Association, (SATRA)  
SATRA House, Rockingham Road,  
Kettering, Northants, NN169JH, England

TM 1	Thickness of Leather and Insole Material
TM 2	Tensile Properties of Insole Materials
TM 3	Flexing Index
TM6	Water Absorption
TM12	Density of Leather and Insole Material
TM14	Resistance to Scuffing by Mild Circular Abrasion
TM31A	Abrasion Resistance (Martindale)
TM 98	Dimensional Stability with Changes in Atmospheric Humidity
TM 101	Surface Peel Strength of Insole Materials

Canadian Standards Association (CSA)  
5060 Spectrum Way, Suite 100,  
Mississauga, Ontario, L4W 5N6

CAN/CSA-Z195                      Protective Footwear

#### 2.4 Master Sealed Patterns

DSSPM 371-05                      Boots, Safety, Desert/Hot Weather, Air Force

DSSPM 385-05                      Leather, Cattlehide, Nubuck Finish on Grain Side, Tan

2.5 Last and outsole mould references - The last number is DND-601ST (Steel Toe) and the outsole mould number is DND 601-3 (with cavities).

## 2.6 Order of Precedence

2.6.1 In the event of discrepancies between the documents referenced herein and the contents of this specification, the contents of this specification must be considered a superseding requirement.

2.6.2 In the event of inconsistency within the specification, the Design Authority must be contacted for clarification.

2.6.3 In the event of inconsistency in contract documents such as contract, specifications, and sealed patterns, the order of precedence must be contract, specifications, and sealed patterns.

2.6.4 Nothing in this document supersedes applicable laws and regulations, unless a specific exemption has been obtained.

## 3.0 REQUIREMENTS

3.1 Definition of Product. - The boots, safety, desert/hot weather must have the following design features (See Appendix 1, Figure 1):

- a. Tan, cattlehide, nubuck finish all leather upper (See Appendix 1, Figure 1);
- b. CSA Grade 1 toe impact protection, sole puncture protection, and electric shock resistance;
- c. Lace-to-toe closure with speed lacing system with 6 tunnel loops and 4 eyelets in each quarter. The eyelets must be at the lower end of the opening; the tunnel loops must be fitted to the top of the opening (See Appendix 1, Figure 2);
- d. Goodyear welt sole attachment (See Appendix 1, Figure 9);
- e. Two flex notches, at the ankle on each quarter, 12 to 15 mm deep, positioned above the vamp/quarter seam, (See Appendix 1, Figure 2);
- f. Moisture-wicking, highly breathable, textile lining;
- g. Leather counter pocket;
- h. Tan colour, two-layer combination bottom consisting of a thermoplastic polyurethane (TPU) midsole, and a rubber unit sole (outsole/heel) with cavities;
- i. Tread design in accordance with outsole mould DND 601-3 with cavities (See Appendix 1, Figure 3);
- j. Leather collar band (See Appendix 1, Figure 4);
- k. One-piece backstrap that extends to the lower edge of the collar and forms a pull loop (See Appendix 1, Figure 5);
- l. Seamless full bellows leather tongue (See Appendix 1, Figure 6);
- m. Finished height measured outside the boot at the back, from the top of the welt to the top of the boot, must be 21.5 to 22.5 cm. for Mondopoint size 265/104 and grade proportionately for each size;

n. Weight must be no more than 1150 grams per boot for Mondopoint size 265/104. The weight for larger sizes may increase proportionately, but must be kept to a minimum (see paragraph 4.2.3 for additional information); and

o. Provided with two pairs of tan boot laces and two pairs of removable cushioned inserts.

3.2 Sealed Pattern. - A sealed pattern that constitutes the standard required for this requirement will be available to bidders and is intended for use as a guide to production of the contracted quantity. The applicable sealed patterns are listed in paragraph 2.4.

3.3 Mondopoint sizing system. - The boot, safety, desert/hot weather, AF must be sized and labelled using the Mondopoint sizing system. In the Mondopoint sizing system there is a direct relationship between the length and width of the *foot, measured with socks on*, and the numerical designations on the sizing label. The Contractor must produce boots in the sizes designated in the contract. The complete range of 72 sizes with the specific NATO Stock Numbers is listed in Table VI. The increment between sizes is 5 mm. The increment between widths is 4 mm.

#### 3.4 Patterns, Tooling and Lasts

3.4.1 The Contractor must be responsible for the paper patterns and tooling required to manufacture the boot, safety, desert/hot weather design in accordance with Sealed Pattern DSSPM 371-05, in the sizes and quantities designated in the contract.

3.4.2 Lasts- The boots must be manufactured on lasts that are duplicates of Last DND-601ST, which constitutes the standard for sizing and fit. The source for this standard is:

Jones & Vining Incorporated (attention: Mr. Tom Iredale)  
1115 West Chestnut Street,  
Brockton, Massachusetts

Tel: (508) 232-7470  
E-mail: tiredale@joneandvining.com

3.4.3 Outsoles must be moulded using mould DND 601-3, creating a rubber unit sole with cavities. The tread pattern must be in accordance with Appendix 1, Figure 3. Information on the mould and unit soles that been known to conform to this requirement can be obtained from:

Jones & Vining Incorporated (attention: Mr. Tom Iredale)  
1115 West Chestnut Street,  
Brockton, Massachusetts

Tel: (508) 232-7470  
E-mail: tiredale@joneandvining.com

3.4.4 The contractor must be responsible for the acquisition of the lasts required for production in the contracted sizes, in the quantities meeting the delivery requirements. Lasts will not be available for loan from the Government. The sizing standard of Last DND-601ST is for the exclusive use of the Department of National Defence and those manufacturers contracted by DND to produce military footwear.

#### 3.5 Materials

3.5.1 Upper leather - The boot upper including the tongue and collar, must be made



using full grain, chrome tanned cattlehide, nubuck leather. The grain side must be lightly buffed to a velvety surface. The leather must be treated to be resistant to water absorption and water penetration. The temper of the leather must be mellow and round to the hand with sufficient stand-up. The collar and tongue leather must be dry milled to obtain an appropriate softness. The leather must be drum dyed with thorough colour penetration from the flesh side to the grain side of the leather. The colour must be tan. The leather must be as free as possible of imperfections such as flesh cuts, heavy vein marks, grub damage or excessive fat wrinkles. Looseness or pipeyness is not acceptable. Sealed Pattern DSSPM 385-05 must be used as a guide to temper and colour. Chemical and physical properties of the leather must be in accordance with paragraph 3.5.1.3 of this specification.

3.5.1.1 Leather finish. - The finish must be one that is easily maintained by the user.

3.5.1.2 Fungicide. - The leather must contain a fungicide with the active ingredient diiodomethyl-para-tolylsulfone in the concentration specified in Table I. "Amical" meets this requirement.

3.5.1.3 Chemical and physical properties. - When tested in accordance with the specified test methods, the leather must meet the chemical and physical requirements specified in Table I.

TABLE I - CHEMICAL AND PHYSICAL PROPERTIES OF UPPER LEATHER

Property	Test Method	Requirement
Thickness -Upper -Collar, eyelet facings and tongue	Woburn Gauge	2.0 to 2.2 mm 1.0 to 1.2 mm
Fat Content (Hexane extraction)	ASTM D3495	6 to 8%
pH	ASTM D2810	3.0 minimum
Ash	ASTM D2617	9.0 maximum
Chrome Oxide	ASTM D2807	3.5% minimum
Burst Strength (Mullen) -for 1.0 to 1.2 mm thickness -for 2.0 to 2.2 mm thickness	ASTM D2210	250 lb/in <sup>2</sup> minimum 350 lb/in <sup>2</sup> minimum
Stitch Tear Strength -for 1.0 to 1.2 mm thickness -for 2.0 to 2.2 mm thickness	ASTM D4705	35 lb minimum 70 lb minimum
Staining	FED-STD-311/3021	Expanded AATCC value of not less than 3.
Water Penetration	ASTM D2099	No penetration after 50,000 flexes minimum
Water Absorption	FED-STD-311/8112	20% minimum
Slit Tear Resistance	ASTM D2212	120N Minimum
Fungicide -Concentration of active ingredient	Standard High Pressure Liquid Chromatography	300 ppm-2000 ppm

**3.5.2 Boot lining.** - The boot lining including the tongue must be fully lined with a two-layered fabric consisting of a knit layer of hydrophilic materials, and a knit layer of hydrophobic material, with monofilament yarns of hydrophobic material extending between and interknitted with the outer and inner layers for maintaining an air chamber between the layers. The lining must be treated with permanent anti-microbial ingredients that comply with international Government regulatory agencies. The treatment must not contain arsenic, tin, heavy metals or polychlorinated phenols, nor rub off or migrate onto the skin. It must not be detrimental to the cloth, nor create a toxic hazard to the person using the product. The colour must be tan to match the leather. The materials must meet the requirements of Table II. Note that Dri-Lex® 622 Aero-Spacer with Aegis Microbe Shield (available from Faytex Corporation, 185 Libbey Parkway, Weymouth, Massachusetts 02189) has been known to meet the requirement.

**TABLE II - BOOT LINING REQUIREMENTS**

Property	Test Method	Requirement
Mass	CAN/CGSB-4.2-M Method 5.1	9.63 oz/yd <sup>2</sup> (326 g/m <sup>2</sup> ) Tolerance: +/-5%
Total Composition	CAN/CGSB-4.2-M Method 14	46% 135D/36 S.D. Tex polyester 40% 30D/1 Fil S.D. polyester 14% 90D/34 Hydrofil® nylon Tolerance: +/-5%
Tensile Strength	ASTM 1682	30 kg/in minimum
Tear Strength	ASTM 2261	9 kg minimum
Abrasion resistance	SATRA TM31A	14,000 cycles Martindale without breaking
Colourfastness to Perspiration	CAN/CGSB-4.2-M Method 23	Colour change: Minimum Grey Scale 4  Staining: Minimum Grey Scale 4
Colourfastness to Crocking	AATCC 8-1977	Dry: Grey Scale 5 Wet: Grey Scale 5

**3.5.3 Impact Resistant Box Toe** – The impact resistant box toe must meet Grade 1 requirements for toe impact protection in accordance with CAN/CSA-Z195 and be compatible with all sizes of Last DND-601 ST. The back edge must have a polyvinyl chloride tapered strip for foot protection. The width of the strip must be 3/8-inch (9.5 mm) with a tolerance of +/- 1/16-inch (+/- 1.5mm). Esjot/Goldenberg #470 has been known to be compatible with Last DND-601ST and to meet the above requirement.

**3.5.4 Sole puncture protection** - The material used to ensure the finished boots meet requirements for puncture protection in accordance with CAN/CSA-Z195 must be compatible with all sizes of Last DND-601 ST.

**3.5.5 Counters** – The counter must correspond to the shape and design of the heel portion of last DND 601ST (left and right lasts) and be supplied in a sufficient number of sizes to cover the boot size range. The user must be protected from abrasion at the heel. The counters must have a fungicide treatment that prevents mould and mildew. Adhesives used must remain soft and flexible. The counters must be accurately positioned prior to activation.

**3.5.6 Counter pockets** – The counter pockets must be cut from full grain, cowhide leather, chrome tanned, lightly milled, with a suede surface texture. The leather must be used with the flesh side out. The leather must be drum dyed. The thickness must be 1.0 mm to 1.2 mm (2.5 oz. to 3 oz). Colour must be tan. (See Figure 7, Appendix 1.)



3.5.7 Shanks - Shanks must be made from cold rolled carbon steel, 1.42 mm thick (+/- 0.076mm) that is sound and free from defects. Hardness on the ASTM E18 Rockwell C scale must range between 47 and 54. It must be curved to properly fit the contours of the bottom of the last. When secured to the bottom of the insole, it must remain fixed without hindrance to the user for the life of the footwear. If tacks, rivets or prongs are used, care must be taken to ensure that sharp protrusions are removed. The length, width and placement of the shanks must be appropriate for the boot size and width and must not adversely affect the construction and performance of the finished footwear.

3.5.8 Thread

3.5.8.1 For upper fitting operations - Both the needle and bobbin threads for the upper fitting operations must be nylon, conforming to D-87-001-176/SF-001, not less than Size "E", Type II (water repellent/non-wicking). The colour must be tan.

3.5.8.2 For seaming of boot lining - The thread must be continuous filament polyester core, polyester covered, Type 1, conforming to CAN/CGSB-4.131. The thread size selected must not adversely affect the integrity of the boot lining. The colour must be tan.

3.5.8.3 For welting - The thread must be made of several plies of bright, high tenacity, continuous filament nylon or polyester with a minimum breaking strength of 57 lbs (25.9 kg).

3.5.9 Eyelets - The eyelets must be barrel painted, made of corrosion resistant brass, with a permanent, abrasion resistant, double baked nylon gloss finish. Colour must be tan to match the leather. Eyelet dimensions before setting must be as per Table III.

Table III – Eyelet Dimensions

Detail	Dimensions
Flange diameter	9.9 mm
Outside barrel diameter	5.8 mm
Length under flange	5.5 mm
Brass thickness	0.30 mm
<b>Tolerances</b>	+/- 5%

3.5.10 Speed lace assembly -The speed lace assembly must consist of a corrosion resistant brass tunnel loop speed lacer and tubular rivet with a permanent, abrasion resistant, double baked nylon gloss finish. Colour must be tan to match the leather and the eyelets. The rivets must remain permanently clinched after attachment. The following dimensions outlined in Table IV must be met for the loops and rivets.

Table IV – Dimensions of Loops and Rivets For Speed Lace Assembly

LOOPS	
Length:	19.2 mm (0.758 inch) Tolerance: +/- 0.12 mm (0.005 inch)
Length over ribs:	19.5 mm (0.770 inch) Tolerance: +/- 0.12 mm (0.005 inch)
Width:	10.6 mm (0.417 inch) Tolerance: +/- 0.12 mm (0.005 inch)
Rib width:	6.0 mm (0.240 inch) Tolerance: +/- 0.12 mm (0.005 inch)

Thickness:	0.8 mm (0.031 inch) Tolerance: +/- 0.02 mm (0.001 inch)
<b>RIVETS</b>	
Length:	8.0 mm (0.315 inch) Tolerance: +/- 0.25 mm (0.010 inch)
Head:	9.2 mm (0.365 inch) Tolerance: +/- 0.17 mm (0.007 inch)
Shaft width:	3.6 mm (0.148 inch) Tolerance: +/- 0.07 mm (0.003 inch)

3.5.11 **Laces** - The laces must be "non-wicking" made from 1050 denier yarns by 3 cabled yarns manufactured from high tenacity, continuous multifilament nylon yarns. Each of the individual yarns used must be twisted initially with not less than 7.0 nor more than 9.0 turns per inch and the final plied twist must be in the opposite direction with not less than 13.0 nor more than 15.0 turns per inch. The yarns must be braided to produce a resultant square braid with four separate sides with an equal number of picks per inch and an equal width per side of 4/32-inch (+/- 1/32-inch). The ends must be self-tipped for a distance of 25.0 mm (+/- 3.0 mm) by an ultrasonic or heat moulding process. The lace tips must have sufficient rigidity to perform their intended function. Cellulose acetate and nylon tips are not acceptable. The length of the laces for all sizes must be 210 cm. The colour must be tan. The physical requirements of the lace must be as outlined in Table V.

**TABLE V – REQUIREMENTS FOR LACES**

Details	Minimum Requirement
Carriers	8
Ends per carrier	1
Picks per inch	14
Breaking strength in accordance with ASTM D5034 (pounds)	250

3.5.12 **Insoles** - The insoles must be cut from a polymeric binder stiffened polyester felt needle punched to polyurethane high-density foam. Total weight in accordance with ASTM D3776 must be 1630 g/m<sup>2</sup> +/-5%. The weight of the polyester felt is 650 g/m<sup>2</sup> (+/-5%). The combined material must be unaffected by water or humidity and must be resistant to bacteria and fungal growth. The active ingredient and concentrations of the fungicide must be such that the insoles are not hazardous to the health of users. Air permeability in accordance with ASTM D737 must be a minimum of 7.5 CFM. The insoles must be cut to the exact shape of the bottom patterns of the last. A pre-formed insole rib must be bonded to the insole. The insoles must meet the requirements of Table VI. Summumtex by Texel has been known to meet these requirements.

**TABLE VI- INSOLE MATERIAL REQUIREMENTS**

Characteristics	Test Method	Physical Requirements
Thickness	ASTM D5729	Total – 4.7 to 5.5 mm Polyurethane foam – 3.0 to 3.4 mm
Fungal resistance	ASTM D3273	Level 10
Wet tensile strength	SATRA TM 2	70 kgf/cm <sup>2</sup> minimum



Characteristics	Test Method	Physical Requirements
Flexing index (5000 cycles)	SATRA TM 3	-along direction 3.29 -across direction 3.59
Abrasion resistance (1000 cycles)	SATRA TM 14	20 mm <sup>3</sup> maximum
Dimensional stability	SATRA TM 98	-along direction 0.15% maximum -across direction 0.15% maximum
Bond strength (Peel)	SATRA TM 101	0.8 N/mm minimum

3.5.13 Midsole - The midsole must be thermoplastic urethane (TPU), 2.5 mm (+/-0.1 mm) thick with a Shore A of 65 +/-2. When tested in accordance with ASTM D4786, the stitch tear (dry) must be 400 lbs. minimum. The colour must be tan to match the outsole.

3.5.14 Unit soles- The unit soles must be moulded using Mold DND 601-3, creating a unit sole with a rubber outsole with cavities. See Sealed Pattern DSSPM 371-05 for reference. The tread pattern must be in accordance with Appendix 1, Figure 3. Unit soles that meet these requirements are available from Jones & Vining Incorporated (1115 West Chestnut Street, Brockton, Massachusetts Tel: (508) 232-7470 Attention : Mr. Tom Iredale E-mail: tiredale@joneandvining.com).

3.5.14.1 Unit sole compounds. The outsole compound must be tan, non-marking, oil resistant rubber that meets the requirements of Table VII.

TABLE VII - OUTSOLE REQUIREMENTS

Characteristics	Test Methods	Requirements
Density (g/cm <sup>3</sup> )	ASTM D3574	1.15 to 1.25
Hardness (Shore A)	ASTM D2240	55 to 65
NBS Abrasion	ASTM D1630	120 minimum
Tear Strength :		
Die T	ASTM D624	65 lb. minimum
Die C	ASTM D624	230 lb. minimum
Stitch Tear:		
Dry	ASTM D4786	320 lb. minimum
Fuel B	ASTM D4786	200 lb. minimum
Ross Flex, Oil #3	ASTM D1052	200% maximum 100,000 flexes
Volume Swell, Fuel B	FED-STD 601 Method 6001 and 6211	30% maximum

3.5.14.2 Outsole bond - The bond achieved between the boot upper and each of the layers that constitute the outsole and midsole must be permanently resistant to any delamination. Bonding strength must be tested in accordance with paragraph 4.2.

3.5.15 Welt - The welt must be a storm-type welt of synthetic rubber. The colour must be tan to match the midsole and the thickness must be 3.2 mm (+/-0.2 mm). The width must be compatible with the manufacturer's equipment and allow the finished boot to have a 4.5 mm (+/- 0.2 mm) extension, as measured from the ridge of the storm welt to the finished edge of the boot. (See Figure 9, Appendix 1).

3.5.16 Removable cushion insert - The inserts must be made of a sandwich laminate of



three layers: face fabric of 100% polyester warp knit, with an open or hole design pattern, colour light grey; a middle layer of open cell polyurethane foam; and a back layer of nylon tricot, colour black in accordance with Sealed Pattern DSSPM 369-05. The inserts must have excellent compression set and must be washable, fast drying and breathable with a durable anti-bacterial/anti-fungal treatment that reduces foot odour and is non-hazardous to the user. The inserts must be permanently formed to cup around the foot at the heel and provide support through the arch area in accordance with Sealed Pattern DSSPM 369-05. The thickness in the forepart must be 4.0 mm +/- 0.3 mm. The thickness in the back part must be 6.0 mm +/- 0.3 mm. A closed cell polyurethane heel strike pad 2.0 mm +/- 0.2 mm thick must be permanently affixed and inserted in the underside of the heel. The heel strike pad must be an oval shape, with dimensions in accordance with the sealed pattern. One pair of inserts in the correct size must be inserted inside each pair of boots. See paragraph 3.5.19.5 for marking requirements.

3.5.17 Tongue binding – The upper edge of the tongue must be bound using a soft, mellow leather applied with the nubuck side out. The colour must be tan to match the boot leather.

3.5.18 Vamp and backstrap backing – The vamp and backstrap backing material must be 100% cotton napped twill. The weight must be 270 g/m<sup>2</sup> (8 oz/yd<sup>2</sup>) +/- 17 g/m<sup>2</sup> (0.5 oz/yd<sup>2</sup>). The backing must have a permanent anti-bacterial treatment.

3.5.19 Labels and marking - The Boots, Safety, Desert/Hot Weather must be labelled and marked as follows:

3.5.19.1 Size labels and identification – Boots must have the following information legibly and indelibly printed on a label approximately 4.0 cm X 6.0 cm +/- 0.5 cm. The material for the label must be soft, flexible and durable. The label must be positioned on the inside of the boot at the top of the tongue lining and securely stitched around all edges or permanently laminated with an adhesive or fused to ensure that the label does not create any pressure points on the wearer's foot.

- a. NATO Stock Number (NSN) as required for each size. NSNs must be in accordance with Table VIII;
- b. Size and width in mondopoint e.g. 250/102. As an option, the size and width may be permanently embossed on the grain side of the tongue;
- c. Month and year of contract e.g. 09/2014;
- d. Nomenclature in English and French as follows:  
  
Boots, Hot Weather, CSA Grade 1 Toe, Puncture and Shock Protection/  
Bottes, Climat Chaude, Embout de Sécurité et Semelle Résistante à la Perforation  
Normes de l'ACNOR
- e. Contractor's name or logo. (As an option, a logo may be permanently embossed on the tongue.); and
- f. A line designated as "ID", appropriate for the user to write his name.

EXAMPLE:

<p style="text-align: center;"><b>8430-20-002-0455</b> <b>Size 250/102</b></p> <p style="text-align: center;">Boots, Hot Weather, CSA Grade 1 Toe/Puncture and Shock Protection/ Bottes, Climat Chaud, Embout et Semelle de Sécurité ; Résistance aux Chocs Électriques, Normes de l'ACNOR</p> <p style="text-align: center;">Best Canadian Footwear Manufacturing Co.    09/2014</p> <p>ID: _____</p>
--

3.5.19.2 CSA Labels – CSA labels must be positioned and securely sewn to the inside of the boot, at the top of the tongue, above the size label.

3.5.19.3 Care Instructions – The Contractor must provide bilingual boot care instructions for the boots with each pair delivered. The care instructions must be printed on paper, 0.009 inches (0.223 mm) thick, +/- 5%. The instruction sheet must be approximately 10 cm wide by 22 cm long. The text of the care instructions must be as follows, with English on one side of the sheet and French on the reverse side:

Boots, Safety, Desert/Hot Weather  
NSN 8430-20-002-0455

Care and Maintenance Instructions

These boots will provide CSA Z-195 Grade 1 toe protection, puncture protection and electrical shock resistance. They are designed to provide a comfortable, durable boot for hot, arid climatic conditions. The cushioned insert is removable and can be replaced with a light orthotic device. Proper maintenance will extend the life of your boot and maximize performance. Boots are ready to wear when issued.

Boot Maintenance

1. To clean the leather, use a commercially available suede/nubuck block by rubbing back and forth to erase spots and soil. Then, brush the nap and remove any residue with a nylon bristle suede brush, used dry or with clear water. The leather, due to the light colour, may eventually darken and not return to its original colour.

2. Alternate boots each day if possible to allow them to "rest" and dry out between wearings. For overnight drying, loosen the laces, pull back the tongue, remove the inserts and store boots in an upside down position, allowing air to circulate as freely as possible. **NEVER DRY BOOTS NEAR DIRECT HEAT.**

Cushion Insert Maintenance

1. The cushion insert is washable, fast-drying and breathable with a durable anti-bacterial/anti-fungal treatment to reduce foot odour. Alternate them frequently;

2. Machine wash (gentle cycle) often. Allow to "Air Dry" completely, away from direct heat, before replacing them in the boots; and

3. When damaged, or worn, replacements are available through the Supply System. Take note of the size that you require.

*Voir Verso*



**Bottes de Sécurité, Aride et Climat Chaud**  
**NNO 8430-20-002-0455**

**Directives d'entretien**

Le design donne une botte confortable et durable, adaptée aux climats chauds et arides. Ces bottes sont conçues pour fournir une protection des orteils de classe 1 conforme à l'Association Canadienne de normalisation (ACNOR), une protection contre la perforation et une résistance aux chocs. La semelle cousinée est amovible et peut être remplacée par une orthèse légère. Un entretien adéquat prolongera la durée de vie de vos bottes et permettra d'en maximiser l'usage. Les bottes sont prêtes à être portées dès que vous les avez reçues.

**Entretien des bottes**

1. Pour nettoyer le cuir, utilisez un bloc à suède du commerce et brossez le suède pour en déloger la saleté. Ensuite, faites un brossage à sec ou humide, avec une brosse à suède en nylon. Dû à sa couleur pâle, le suède pourra éventuellement foncer légèrement ; et

2. Faites alterner vos bottes tous les jours, si possible, pour les laisser reposer et sécher entre chaque utilisation. Pour un séchage durant la nuit, dégagez les lacets, relevez la langue, enlevez les premières amovibles et placez vos bottes à sécher, la tête en bas, pour une meilleure circulation de l'air. **NE PLACEZ JAMAIS VOS BOTTES À SÉCHER PRES D'UNE SOURCE DE CHALEUR.**

**Entretien des Semelles Cousinées**

1. La première de propreté est lavable, elle séchera rapidement et elle respire. Elle a subi un traitement antibactérien durable afin de réduire les mauvaises odeurs ;

2. Lavez-les à la machine souvent (cycle délicat). Laissez-les sécher complètement, à l'air libre, loin des sources de chaleur, avant de les replacer dans les bottes ; et

3. Si elles deviennent endommagées ou usées, elles peuvent être remplacées par l'entremise du Système d'Approvisionnement. Prenez soin de noter votre pointure.

See reverse

3.5.19.4 Hang tags - Hang tags identifying brand or product names may be acceptable, provided that the Design Authority has granted approval for text and use. Hang tags when authorized must be easy to remove without damage to the boots.

3.5.19.5 Marking of removable inserts -The mondopoint size, boot size (e.g. 270/98) must be indelibly printed on the bottom of the removable inserts. Printed labels are acceptable.

3.6 Cutting - The vamp and lower quarters must be cut from the best portion of the butt. The upper quarters must be cut adjacent to the vamps from parts of the shoulder that are not loose and are free from excessive fat wrinkles. The backstrap must be cut from the backbone or shoulder areas.

3.7 Skiving of upper leather parts - Where skiving is required, the skiving must be done on the flesh side of the leather only.

### 3.8 Manufacture

3.8.1 Upper stitching - The thread, needle size, seam type, stitch speed, stitch tension must be selected to prevent seam failure and faulty stitch formation. Stitch density must be the highest allowable with a minimum of 8 spi. The needles used must be of the smallest size possible for use with the specified threads. Loose thread ends must be neatly clipped. Burning loose ends is permitted, provided that care is taken to avoid damage/ burning of the upper. Large residue of burned thread is not acceptable.

3.8.1.1 All stitching on the leather portions of the boot, with the exception of the front edge of the eyelet facing and stay, must be lockstitched with two rows of stitching spaced 2.0 to 3.0 mm apart. Seams formed must be smooth and regular with even seam allowances. Stitching must be accurately and evenly placed from seam edges as specified.

3.8.2 Boot lining - The boot lining must be cut, and assembled using the laminated materials specified and in accordance with Sealed Pattern DSSPM 371-05. It should be noted that there is no back seam in the lining. Seams joining the vamp lining to the quarter lining must be butted seams that are zigzag stitched using 4 to 5 stitches per cm. The seam must be reinforced by covering it with a lightweight, flexible tape that is stitched to the lining seam on each edge of the tape. The seam must be durable and flat. The boot lining must be carefully fitted to the inside of the boot to ensure there are no wrinkles or pleats. To keep the lining in place, the lining must be permanently secured by stitching through the vamp/quarter seam stitching from the outside, from the edge of the backstrap to the eyelet facing. All materials, construction and processes must ensure that the integrity of the boot lining is maintained during assembly and for the life of the boot.

3.8.3 Counter pockets - To minimize heel slip, a leather counter pocket in accordance with paragraph 3.5.6 must be stitched into the heel area of the lining with two rows of stitching, spaced 2 mm apart and 1 mm from the edge of the counter pocket. The counter pocket must overlap the lining edge by a minimum of 10 mm.

3.8.4 Vamp and backstrap backing - The vamps and backstrap must be backed with the material specified in paragraph 3.5.18.

3.8.5 Tongue - The bellows tongue must be seamed to the eyelet facings in accordance with Sealed Pattern DSSPM 371-05. The top edge of the tongue and tongue lining, must be bound with the leather binding in accordance with paragraph 3.5.17. The binding must continue from the tongue to the back edge of the eyelet facing to the top edge of the boot. The binding stitching must be 1.5 to 2 mm from the edges and ensure that the binding has been smoothly applied without pulling or stretching. (See Figure 6, Appendix 1). The top edge of the eyelet facing and eyelet stay must be neatly trimmed and clean.

3.8.6 Eyeletting and tunnel loops - The eyelets and tunnel loops must be evenly spaced and positioned, to ensure that neither a tunnel loop nor eyelet go through the vamp/quarter seam. (See Figure 2, Appendix 1). The eyelets and tunnel loops must be firmly and permanently clinched for the life of the boot. The setting must be smooth to ensure that laces are not subject to abrasion.

3.8.6.1 Eyelets - There must be four eyelets in each quarter at the toe end of the front opening. Eyelets must be centred 10 mm from the edge of the front closure and the bottom eyelet must be located 15mm (+/- 1.0mm) from the bottom edge of the quarter.

3.8.6.2 Tunnel loops - There must be six tunnel loops in each quarter between the top edge of the boot and the bottom group of eyelets. The tunnel loops must be centred 7 mm from the edge of the front closure and start at 18mm (+/- 1.0mm) from the top edge of the shaft. Tunnel loops must be positioned to ensure even spacing in all sizes and to ensure that the tunnel loops do not



come too close to the edges of the eyelet facings or the ankle notches (See Figure 2, Appendix 1).

### 3.8.5 Lasting

3.8.5.1 In preparation for lasting, the correct size counter must be fitted in the designated upper in accordance with the counter schedule. The counter must be pulled in tightly to the last. The counter must be properly shaped to ensure that the boot is comfortable when worn. The back seam must be straight and the boot properly aligned on the last.

3.8.5.2 The lasting must be done in a manner that will protect the integrity of the lining. The lasts must be inspected before they are used, to ensure they are free from sharp edges or nicks that could damage the lining.

3.8.5.3 A steel toe of the proper size must be inserted before the uppers are pulled.

3.8.5.4 The uppers must be laced before lasting through a minimum of two of the lower eyelets of each quarter to ensure that the opening limits are met. The opening limits must be 13 mm to 16 mm. The uppers must be pulled tightly and held firmly to the lasts and be free from loose areas or pleats. Care must be taken to ensure that the backstraps are centred and straight, and that the quarter heads are properly aligned at the toe. The uppers must be lasted uniformly with uppers matching as pairs. There must be no damage to the upper.

3.8.5.5 The lasted uppers must remain on the last long enough to achieve proper setting.

3.8.6 Shank, steel plate and bottom fill - A shank and steel plate of the proper size must be placed in the insole cavity to ensure that normal flexing action will be maintained. The cavity must be filled with a resin bonded granulated cork filler to produce a flat bottom after the sole is attached.

3.8.7 Sole attachment method - The sole attachment method must be Goodyear welt, permanently combining the upper and welt to the insole. The steel plate must be put in position. The unit sole must be attached to ensure a permanent bond that will meet the bonding strength performance criteria specified in paragraph 4.2.4. to 4.2.4.3.3, and the whole boot test requirements. A safety stitch must be done at the toe, through the welt, midsole and outsole. (See Appendix 1, Figure 8). Soles must be square trimmed in pairs, with a custom cutter to provide an extension of 4.5 mm (+/- 0.5 mm) all around. Ragged or wavy edges are not acceptable. The edges must be brushed.

3.8.8 Boot finishing - If a top finish is used, it must not restrict the breathability of the boot. The uppers and soles must be thoroughly cleaned of foreign matter.

3.8.9 Laces - The boots must be laced with the laces threaded through the two bottom eyelets at the very least and loosely tied, joining the boot pairs together.

3.8.10 Packaging of spares - The second pair of laces must be inserted in a plastic bag along with the spare pair of inserts in a size matching the boots, and the care instructions.

## 4.0 **QUALITY CONTROL/INSPECTION**

4.1 Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Contractors may utilize their own or any other inspection facility acceptable to the Government or its designated representative. The Government reserves the right to perform any of the inspections specified herein, where such inspections are deemed necessary to ensure materiel and services conform

to prescribed requirements. The contractor is responsible for ensuring that all materiel or services submitted to the Government for acceptance comply with all requirements of the contract.

4.2 Bonding strength – Finished boots must be subjected to bonding strength tests in accordance with paragraphs 4.2.1 to 4.2.1.3. Testing for bonding strength must be conducted at production start-up and halfway through production and at any interval where there have been changes in the equipment, process or components used in the attachment of the soles.

4.2.1 Midsole to outsole - The bond strength of the midsole to outsole must be not less than 100 pounds when tested in accordance with paragraph 4.2 to 4.2.1.3.

4.2.1.1 Specimen preparation - The specimen must be a combined midsole-outsole unit that has aged at least 2 days. The midsole must be separated from the outsole for a distance of approximately 2-1/2 inches from the toe end of the specimen.

4.2.1.2 Apparatus – A power-driven portable adhesion machine or a testing device of equal performance must be used. The rate of travel of the power-actuated grip must be 2-inches per minute. The machine must be operated with a device for maintaining maximum load indication.

4.2.1.3 Procedure – The separate toe ends of the specimen must be clamped in the jaws of the machine, with the jaws 2-inches apart. The specimen must extend outward at right angles to the direction of the application load. The machine must be started and the outsole and midsole must be pulled apart for a distance of 1-inch. At that instant, the load indicated on the machine must be read and recorded.

4.2.3 Weight - Weighing will be done on Mondopoint size 265/104 boots including all of the components (insoles, laces, etc.). Sample must be pre-conditioned at 20° Celsius (+/-2° C) with 65% (+/-2%) relative humidity for a minimum of 24 hours. Left and right boots of three (3) pairs must be weighted and the result will be averaged. Maximum average weight: 1150.0 grams per boot. Tolerance on individual boot (left or right) weight of pair must be within +/- 10.0 grams.

## 5.0 PACKAGING

5.1 Packaging and packing- Unless otherwise specified, packaging and packing as well as delivery must be in accordance with the terms of the contract.

## 6.0 NOTES

### 6.1 Definition of terms

6.1.1 Design Authority - The Design Authority is the Government agency responsible for the technical aspects of the design and changes to design. The Design Authority for this requirement is the Directorate of Soldier Systems Program Management (DSSPM), Department of National Defence.

6.1.2 Sealed Pattern - The sealed pattern is the authorized prototype of the item to be manufactured and must be used as a guide to production.

6.1.3 Safety, Health and Environmental Concerns – The production of a product to this specification, or the evaluation of a product to this specification, may require the use of materials and/or equipment that could be hazardous. This specification does not purport to address all safety, health and environmental concerns, if any associated with its use. It is the responsibility of the user of this specification to establish appropriate safety, health and environmental practices and to determine the applicability of regulatory limitations prior to use.

6.1.4 Mondopoint size marking- The Mondopoint size marking consists of two numbers, e.g. 235/96. The first number designates the length in millimetres of the socked foot that fits into the boot, and the second number designates the joint width of the socked foot, that fits into the boot.



**TABLE VIII: BOOTS, SAFETY, DESERT/HOT WEATHER, AF - SIZE RANGE**

Mondopoint Size	NATO Stock Number	Mondopoint Size	NATO Stock Number	Mondopoint Size	NATO Stock Number
215/88	8430-20-002-0456	250/94	8430-20-002-0480	275/100	8430-20-002-0504
220/90	8430-20-002-0457	250/98	8430-20-002-0481	275/104	8430-20-002-0505
225/84	8430-20-002-0458	250/102	8430-20-002-0482	275/108	8430-20-002-0506
225/88	8430-20-002-0459	250/106	8430-20-002-0483	275/112	8430-20-002-0507
225/92	8430-20-002-0460	255/92	8430-20-002-0484	275/116	8430-20-002-0508
225/96	8430-20-002-0461	255/96	8430-20-002-0485	280/102	8430-20-002-0509
230/86	8430-20-002-0462	255/100	8430-20-002-0486	280/106	8430-20-002-0510
230/90	8430-20-002-0463	255/104	8430-20-002-0487	280/110	8430-20-002-0511
230/94	8430-20-002-0464	255/108	8430-20-002-0488	280/114	8430-20-002-0512
230/98	8430-20-002-0465	260/94	8430-20-002-0489	280/118	8430-20-002-0515
235/88	8430-20-002-0466	260/98	8430-20-002-0490	285/104	8430-20-002-0516
235/92	8430-20-002-0467	260/102	8430-20-002-0491	285/108	8430-20-002-0517
235/96	8430-20-002-0468	260/106	8430-20-002-0492	285/112	8430-20-002-0518
235/100	8430-20-002-0469	260/110	8430-20-002-0493	285/116	8430-20-002-0519
240/90	8430-20-002-0470	265/96	8430-20-002-0494	290/106	8430-20-002-0520
240/94	8430-20-002-0471	265/100	8430-20-002-0495	290/110	8430-20-002-0521
240/98	8430-20-002-0472	265/104	8430-20-002-0496	290/114	8430-20-002-0522
240/102	8430-20-002-0473	265/108	8430-20-002-0497	290/118	8430-20-002-0523
245/88	8430-20-002-0474	265/112	8430-20-002-0498	295/108	8430-20-002-0524
245/92	8430-20-002-0475	270/98	8430-20-002-0499	295/112	8430-20-002-0525
245/96	8430-20-002-0476	270/102	8430-20-002-0500	295/116	8430-20-002-0526
245/100	8430-20-002-0477	270/106	8430-20-002-0501	300/110	8430-20-002-0527
245/104	8430-20-002-0478	270/110	8430-20-002-0502	300/114	8430-20-002-0528
250/90	8430-20-002-0479	270/114	8430-20-002-0503	305/116	8430-20-002-0529
				Special Size	8430-20-002-0530



## NOTICE

This document has been examined by the Technical Authority for content and confirmed that it has no references to controlled goods

**FIGURES ASSOCIATED WITH  
SPECIFICATION DSSPM 2-3-87-0455  
FOR  
BOOTS, SAFETY, DESERT/HOT/WEATHER,  
TAN, NUBUCK LEATHER, AIR FORCE  
NSN 8430-20-002-0455**

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OPI/BPR: DSSPM 2-3 / DAPES 2-3

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©Sa Majesté la Reine en chef du Canada représentée par le Ministre de la Défense nationale, 2015



Figure 1: Whole boot  $\frac{3}{4}$  view.



Figure 2: Close-up view of lacing system.



Figure 3: Bottom view, tread design (outsole mould DND 601-3)





Figure 4: Leather collar.



Figure 5: Back strap and pull loop.



Figure 6: Leather bellows tongue.





Figure 7: Heel/counter area to show counter pocket/lining assembly.  
Note 1 - Lining type to be in accordance with the specification  
Note 2 - Outsole 601-3 has a heel breast



Figure 8: Close-up view of safety stitch in toe area.



Figure 9: Close-up view of storm welt.

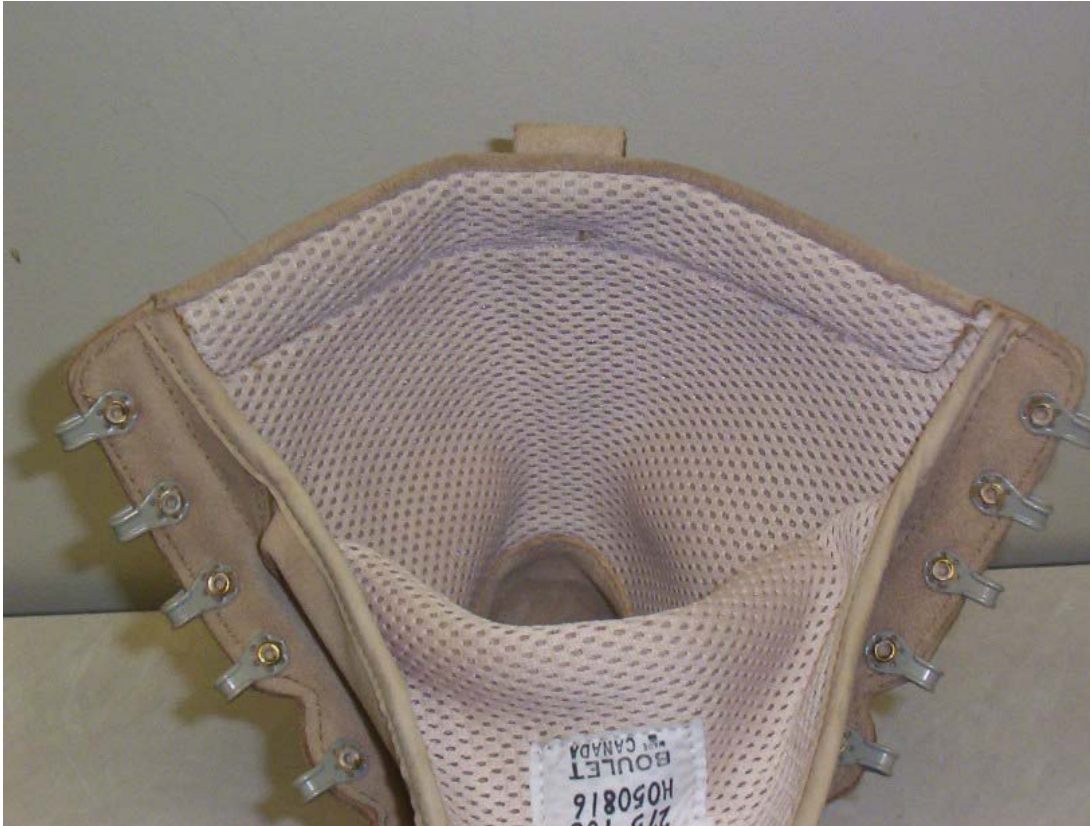


Figure 10: Seamless quarter lining, above the counter pocket.  
Note: Lining type to be in accordance with the specification.



## NOTICE

This document has been examined by the Technical Authority for content and confirmed that it has no references to controlled goods.

### Pre-Production and Production Technical Evaluation Plan for the Air Force Hot Weather (Desert) Safety Boots



Dated 4 April, 2016

**Pre-Production and Production Technical  
Evaluation Plan for the Air Force Hot Weather (Desert) Safety Boots**

**1.0 General.**

**1.1 Evaluation Plan.** This annex describes how The Department of National Defence (DND) is to perform the pre-production and production technical evaluation of the Air Force Hot Weather (Desert) Safety Boot submissions in terms of evaluating physical samples for the quality of workmanship and for their ability to demonstrate capability to meet requisite technologies, and for conformance to specified materials and measurements outlined in **Annex B (DSSPM 2-3-87-0455)**. The technical portion of the pre-production and production evaluation plan will be done through a technical verification performed by a team of DND Subject Matter Experts (SMEs) with the exception for the conformance to specified materials which will be proven by the submission from the Bidder with the appropriate test results from accredited independent laboratories or, when stated, Certificate(s) of Compliance (C of C).

**1.2 Mandatory Technical Criteria.** A mandatory technical criteria evaluation will be completed to determine technical compliance through the examination of the physical samples, mandatory test results, C of C's, and supporting information outlined in paragraph 1.4. It will be a pass (compliant) or fail (non-compliant) scenario.

**1.3 Pre-Production Samples.** As part of the evaluation, to confirm a Contractors' capability of meeting the technical and performance requirements, the pre-production samples outlined in Table I must be submitted:

**Table I – Physical Samples To Be Submitted At Pre-Production**

Time Period	Requirement
Pre-Production Stage	One (1) pair of Air Force Hot Weather (Desert) Safety Boots in Mondopoint size 265/104 with an extra pair of laces and removable inserts.

**1.3.1 Material Substitutions.** All materials must be strictly in accordance with the technical and performance requirement. Boots manufactured in production quantities must be in strict accordance with those proposed in support of the Contract and deemed compliant by DND as part of the pre-production evaluation.

**1.4 Evaluation of Conformance To Specified Materials And Measurements Outlined In Annex B.**

**1.4.1 Mandatory Material Testing Information.** As part of the evaluation, to confirm a Contractors' capability of meeting the technical and performance requirements, the test results or certificates of compliance outlined in Table II must be submitted.

Dated 4 April, 2016

Table II – Mandatory Material Testing Information At Pre-Production

Material	Reference in Annex B	Requirement and Reference	Testing Requirements and Frequency	
			Pre-Production	
Upper Leather	Paragraph 3.5.1	<b>CHEMICAL AND PHYSICAL PROPERTIES</b> test results in accordance with Annex B, Table I	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.	
Grade 1 Impact Resistant Toe, Puncture Resistant Midsole Plate, and Electric Shock Resistant Outsole	Paragraph 3.0b, Paragraph 3.5.3, and Paragraph 3.5.4	<b>CSA CERTIFICATION</b> for Grade 1 Impact Resistant Toe, Puncture Resistant Midsole Plate, and Electric Shock Resistant Outsole	Test results must be submitted. Test results done by in-house facilities or accredited independent laboratory.	
Laces	Paragraph 3.5.11	<b>LACE REQUIREMENTS</b> in accordance with Annex B, paragraph 3.5.11	Certificate of compliance must be submitted.	
Insoles	Paragraph 3.5.12	<b>INSOLE REQUIREMENTS</b> in accordance with Annex B, paragraph 3.5.12	Certificate of compliance must be submitted.	
Outsole Compound	Paragraph 3.5.14.1	<b>OUTSOLE REQUIREMENTS</b> in accordance with Annex B, Table VII.	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.	
Midsole to Outsole	Paragraph 4.2	<b>BONDING STRENGTH</b> test results in accordance with Annex B, paragraph 4.2.	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.	

1.5 **Evaluation of quality of workmanship and ability to demonstrate capability to meet requisite technologies.**

1.5.1 **Workmanship and Construction Evaluation.** As part of the evaluation, to confirm a Contractors' submission for the quality of workmanship and for the ability to demonstrate capability to meet requisite technologies, the workmanship and construction will be evaluated using the criteria outlined in Table III.

Dated 4 April, 2016

**1.5.1.1 Definitions.**

**1.5.1.1.1 Deviation.** A deviation is defined as a non-compliance of an essential performance or design requirement outlined in **Annex B**.

**1.5.1.1.2 Infraction.** An infraction is defined as a workmanship or construction issue evaluated to be non-compliant that directly affects serviceability of the boot.

**1.5.1.1.3 Observation.** An observation is defined as a workmanship or construction issue evaluated to be non-compliant that does not necessarily affect serviceability of the boot but affects overall quality assurance.

**1.5.1.1.4 Maximum Infractions.** No workmanship and construction deviations will be accepted in any of the pre-production samples. A maximum of three (3) workmanship and construction infractions will be accepted in any of the pre-production samples. Observations will be noted and referenced in the pre-production evaluation to then be corrected before approval of production is granted. Workmanship or construction issues found with the submission not listed in Table III will be deemed as an observation.

**Table III – Workmanship and Construction Evaluation**

Reference in Annex B	Criteria	Classification of Infraction <sup>1</sup>		
		Deviation	Infraction	Observation
Paragraph 3.1c (Lace-To-Toe Closure)	The boot shall have lace-to-toe closure with speed lacing system with 6 tunnel loops and 4 eyelets in each quarter. The eyelets shall be at the lower end of the opening; the tunnel loops shall be fitted to the top of the opening	X		
Paragraph 3.1e (Flex Notches)	The boot shall have two flex notches at the ankle on each quarter, 12 to 15 mm deep, above the vamp / quarter seam	X		
Paragraph 3.1m (Finished Height)	The finished height measured outside the boot at the back, from the top of the welt to the top of the boot, shall be 21.5 to 22.5 cm. for Mondopoint size 265/104 and grade proportionately for each size;	X		
Paragraph 3.3 (Mondopoint Sizing System)	The boots shall be sized and labelled using the Mondopoint sizing system.	X		

<sup>1</sup>The classification of “infraction” is for the purposes of evaluation only.



Dated 4 April, 2016

Reference in Annex B	Criteria	Classification of Infraction <sup>1</sup>		
		Deviation	Infraction	Observation
Paragraph 3.3.2 (Lasts)	The boots shall be manufactured on lasts that are duplicates of Last DND-601ST.	X		
Paragraph 3.3.3 (Outsoles)	Outsoles shall be moulded using mould DND 601-3, creating a rubber unit sole with cavities. See Appendix 1, Figure 3.	X		
Paragraph 4.2.3 (Weight)	Weight for a pair of Mondopoint size 265/104 boots must be 1150.00 grams per boot (tolerance +/- 10.0 grams).	X		
Paragraph 3.5.19 (Labeling)	Labeling omitted, incorrect, illegible, or incomplete.		X	
Paragraph 5.0 (Packaging)	Packaging omitted, incorrect, or incomplete.		X	
Construction and Assembly - General	<b>Applicable to all components and assemblies unless otherwise indicated.</b>			
Construction and Assembly - General	Any operation omitted or not properly performed, or any part missing.	X		
Construction and Assembly - General	Incomplete manufacturing process.	X		
Construction and Assembly - General	Cuts, tears, holes, rips, mend, lumps, creases, weak place, or other deficiencies seriously affecting serviceability.	X		
Construction and Assembly - General	Material defects such as, but not limited to, bone, loose, flaky, or otherwise inferior leathers, weak spots or mends, discolouration, etc.	X		
Construction and Assembly - General	Manufacturing defects such as, but not limited to, burns, blooms, staining, discolouration, hazing, blisters, embedded foreign material, pits, air pockets, etc.	X		
Construction and Assembly - General	Incomplete or incorrect bonding of bottoming components.	X		
Construction and Assembly - General	Needle chews likely to develop into a hole.	X		
Construction and Assembly - General	Poor or uneven lasting affecting serviceability.	X		

Dated 4 April, 2016

Reference in Annex B	Criteria	Classification of Infraction <sup>1</sup>		
		Deviation	Infraction	Observation
Construction and Assembly - General	Components missing or wrong size.	X		
Construction and Assembly - General	Noticeable separation of parts	X		
Construction and Assembly - General	Any open seam, any row of stitching missing, stitching uneven tension, appropriate number of stitches per inch for material, loose stitching resulting in loosely secured seam, tight stitch resulting in puckering of fabric or assembly, thread ends not trimmed, or parts caught in an unrelated row of stitching,	X		
Construction and Assembly - General	Grease, oil, or other foreign matter on outside or inside of finished footwear.	X		
Construction and Assembly - General	Pairs of finished boots not right and left of same size.	X		
Construction and Assembly - General	Pairs of finished boots have significant variation in shade or colour.	X		

**3.0 Production Requirements.**

3.1 To confirm a Contractors' capability of meeting the technical and performance requirements, the test results outlined in Table IV must be submitted during production as outlined:

Dated 4 April, 2016

Table IV – Mandatory Material Testing Information At Production Stage

Material	Requirement and Reference	Testing Requirements and Frequency	
		Production	
Upper Leather	<b>CHEMICAL AND PHYSICAL PROPERTIES</b> test results in accordance with Annex B, paragraph 3.5.1 and Table I	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.  Test results to be submitted upon request though DND DQA upon supplier changes.	
Boot Lining	<b>PHYSICAL AND PERFORMANCE REQUIREMENTS</b> in accordance with Annex B, paragraph 3.5.2 and Table II	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.  Test results to be submitted upon request though DND DQA upon supplier changes.	
Shanks	<b>PHYSICAL AND PERFORMANCE REQUIREMENTS</b> in accordance with paragraph 3.5.7	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.  Test results to be submitted upon request though DND DQA upon supplier changes.	
Thread	<b>PHYSICAL AND PERFORMANCE REQUIREMENTS</b> in accordance with Annex B, paragraph 3.5.8	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.  Test results to be submitted upon request though DND DQA upon supplier changes.	

Dated 4 April, 2016

Material	Requirement and Reference	Testing Requirements and Frequency	
		Production	
Eyelets	<b>PHYSICAL REQUIREMENTS</b> in accordance with Annex B, paragraph 3.5.9	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.	Test results to be submitted upon request though DND DQA upon supplier changes.
Speed Lace Assembly	<b>PHYSICAL REQUIREMENTS</b> in accordance with Annex B, paragraph 3.5.10	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.	Test results to be submitted upon request though DND DQA upon supplier changes.
Laces	<b>PHYSICAL REQUIREMENTS</b> in accordance with Annex B, paragraph 3.5.11	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.	Test results to be submitted upon request though DND DQA upon supplier changes.
Insoles	<b>PHYSICAL REQUIREMENTS</b> in accordance with Annex B, paragraph 3.5.12	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.	Test results to be submitted upon request though DND DQA upon supplier changes.

Dated 4 April, 2016

Material	Requirement and Reference	Testing Requirements and Frequency	
		Production	
Midsole	<b>PHYSICAL AND PERFORMANCE REQUIREMENTS</b> in accordance with Annex B, paragraph 3.5.13	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.	Test results to be submitted upon request though DND DQA upon supplier changes.
Outsole	<b>PHYSICAL AND PERFORMANCE REQUIREMENTS</b> in accordance with Annex B, Table VII.	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.	Test results to be submitted upon request though DND DQA upon supplier changes.
Removable Cushion Insert	<b>PHYSICAL REQUIREMENTS</b> in accordance with Annex B, paragraph 3.5.17	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.	Test results to be submitted upon request though DND DQA upon supplier changes.



Dated 4 April, 2016

Material	Requirement and Reference	Testing Requirements and Frequency	
		Production	
Midsole to Outsole	<b>BONDING STRENGTH</b> test results in accordance with Annex B, paragraph 4.2.	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.  Testing shall be completed half-way through production and at any interval where there have been changes in the equipment, process or components used in attachment of the soles. Test results to be submitted though DND DQA representative.	
Whole Boot	<b>WEIGHT</b> in accordance with Annex B, paragraph 4.2.3.	Test results must be submitted. Test results done by accredited independent laboratory.  Test results to be submitted upon requested though DND DQA upon supplier changes.	

SIZE ROLL DISTRIBUTION / DISTRIBUTION DE TAILLE  
AIR FORCE HOT WEATHER COMBAT SAFETY BOOT

W8486-162837  
ANNEX D / ANNEXE D  
Rev./ 9 May / mai 2015

Item Article	NATO STOCK NUMBER	NOMENCLATURE	Size Grandeur	Unit of issue Unité de dotation	Delivery address			Total
					QTY / QTE Montreal Depot W1941	QTY / QTE Edmonton Depot W2481		
	8430-20-001-8933	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	A/A	PR				
	8430-20-001-8934	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	215/88	PR	0	0	0	0
	8430-20-001-8935	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	220/90	PR	0	0	0	0
	8430-20-001-8936	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	225/84	PR	0	0	0	0
	8430-20-001-8937	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	225/88	PR	0	0	0	0
	8430-20-001-8938	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	225/92	PR	0	0	0	0
	8430-20-001-8939	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	225/96	PR	0	0	0	0
	8430-20-001-8940	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	230/86	PR	0	0	0	0
	8430-20-001-8941	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	230/90	PR	0	0	0	0
	8430-20-001-8942	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	230/94	PR	0	0	0	0
	8430-20-001-8943	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	230/98	PR	0	0	0	0
	8430-20-001-8944	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	235/88	PR	12	8	20	20
	8430-20-001-8945	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	235/92	PR	0	0	0	0
	8430-20-001-8946	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	235/96	PR	0	0	0	0
	8430-20-001-8947	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	235/100	PR	0	0	0	0
	8430-20-001-8948	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	240/90	PR	0	0	0	0
	8430-20-001-8949	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	240/94	PR	0	0	0	0
	8430-20-001-8950	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	240/98	PR	0	0	0	0
	8430-20-001-8951	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	240/102	PR	0	0	0	0
	8430-20-001-8952	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	245/88	PR	0	0	0	0
	8430-20-001-8953	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	245/92	PR	0	0	0	0
	8430-20-001-8954	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	245/96	PR	0	0	0	0
	8430-20-001-8955	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	245/100	PR	0	0	0	0
	8430-20-001-8956	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	245/104	PR	0	0	0	0
	8430-20-001-8957	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	250/90	PR	0	0	0	0
	8430-20-001-8958	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	250/94	PR	18	12	30	30
	8430-20-001-8959	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	250/98	PR	12	8	20	20
	8430-20-001-8960	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	250/102	PR	0	0	0	0
	8430-20-001-8961	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	250/106	PR	0	0	0	0
	8430-20-001-8962	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	255/92	PR	0	0	0	0
	8430-20-001-8963	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	255/96	PR	0	0	0	0
	8430-20-001-8964	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	255/100	PR	0	0	0	0

SIZE ROLL DISTRIBUTION / DISTRIBUTION DE TAILLE  
AIR FORCE HOT WEATHER COMBAT SAFETY BOOT

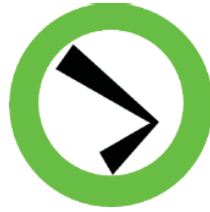
W8486-162837  
ANNEX D / ANNEXE D  
Rev./ 9 May / mai 2015

Item Article	NATO STOCK NUMBER	NOMENCLATURE	Size Grandeur	Unit of issue Unité de dotation	Delivery address			Total
					QTY / QTE Montreal Depot W1941	QTY / QTE Edmonton Depot W2481		
	8430-20-001-8965	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	255/104	PR	0	0		0
	8430-20-001-8966	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	255/108	PR	0	0		0
	8430-20-001-8967	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	260/94	PR	0	0		0
	8430-20-001-8968	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	260/98	PR	0	0		0
	8430-20-001-8969	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	260/102	PR	0	0		0
	8430-20-001-8970	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	260/106	PR	18	12		30
	8430-20-001-8971	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	260/110	PR	0	0		0
	8430-20-001-8972	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	265/96	PR	30	20		50
	8430-20-001-8973	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	265/100	PR	0	0		0
	8430-20-001-8974	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	265/104	PR	45	30		75
	8430-20-001-8975	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	265/108	PR	0	0		0
	8430-20-001-8976	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	265/112	PR	18	12		30
	8430-20-001-8977	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	270/98	PR	0	0		0
	8430-20-001-8978	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	270/102	PR	0	0		0
	8430-20-001-8979	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	270/106	PR	0	0		0
	8430-20-001-8980	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	270/110	PR	24	16		40
	8430-20-001-8981	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	270/114	PR	0	0		0
	8430-20-001-8982	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	275/100	PR	30	20		50
	8430-20-001-8983	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	275/104	PR	0	0		0
	8430-20-001-8984	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	275/108	PR	0	0		0
	8430-20-001-8985	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	275/112	PR	0	0		0
	8430-20-001-8986	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	275/116	PR	0	0		0
	8430-20-001-8987	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	280/102	PR	18	12		30
	8430-20-001-8988	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	280/106	PR	0	0		0
	8430-20-001-8989	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	280/110	PR	0	0		0
	8430-20-001-8990	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	280/114	PR	0	0		0
	8430-20-001-8991	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	280/118	PR	0	0		0
	8430-20-001-8992	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	285/104	PR	0	0		0
	8430-20-001-8993	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	285/108	PR	0	0		0
	8430-20-001-8994	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	285/112	PR	0	0		0
	8430-20-001-8995	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	285/116	PR	0	0		0
	8430-20-001-8996	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	290/106	PR	0	0		0

SIZE ROLL DISTRIBUTION / DISTRIBUTION DE TAILLE  
AIR FORCE HOT WEATHER COMBAT SAFETY BOOT

W8486-162837  
ANNEX D / ANNEXE D  
Rev/. 9 May / mai 2015

Item Article	NATO STOCK NUMBER	NOMENCLATURE	Size Grandeur	Unit of issue Unité de dotation	Delivery address		Total
					QTY / QTE Montreal Depot W1941	QTY / QTE Edmonton Depot W2481	
	8430-20-001-8997	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	290/110	PR	0	0	0
	8430-20-001-8998	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	290/114	PR	0	0	0
	8430-20-001-8999	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	290/118	PR	0	0	0
	8430-20-001-9000	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	295/108	PR	0	0	0
	8430-20-001-9001	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	295/112	PR	0	0	0
	8430-20-001-9002	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	295/116	PR	0	0	0
	8430-20-001-9003	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	300/110	PR	0	0	0
	8430-20-001-9004	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	300/114	PR	0	0	0
	8430-20-001-9005	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	305/116	PR	0	0	0
	8430-20-001-9006	BOOTS, COMBAT, SAFETY, HOT WEATHER (DESERT), TAN	SPECIAL	PR	0	0	0
TOTAL:					225	150	375



## NOTICE

This document has been examined by the Technical Authority for content and confirmed that it has no references to controlled goods.

### Pre-Award Technical Evaluation Plan for the Air Force Hot Weather (Desert) Safety Boots



Dated 4 Apr, 2016

**Pre-Award Technical Evaluation Plan for the Air Force Hot Weather (Desert) Safety Boots**

**1.0 General.**

**1.1 Evaluation Plan.** This annex describes how The Department of National Defence (DND) is to perform the pre-award technical evaluation of the Air Force Hot Weather (Desert) Safety Boot submissions in terms of evaluating physical samples for the quality of workmanship and for their ability to demonstrate capability to meet requisite technologies, and for conformance to specified materials and measurements outlined in **Annex B (DSSPM 2-3-87-0455)**. The technical portion of the pre-award evaluation plan will be done through a technical verification performed by a team of DND Subject Matter Experts (SMEs) with the exception for the conformance to specified materials which will be proven by the submission from the Bidder with the appropriate test results from accredited independent laboratories or, when stated, Certificate(s) of Compliance (C of C).

**1.2 Mandatory Technical Criteria.** A mandatory technical criteria evaluation will be completed on all bid submissions to determine technical compliance through the examination of the physical examples, mandatory test results, C of C's, and supporting information outlined in paragraph 1.4. It will be a pass (compliant) or fail (non-compliant) scenario.

**1.3 Pre-Award Samples.** As part of the evaluation, to confirm a Bidders' capability of meeting the technical and performance requirements, the pre-award samples outlined in Table I must be submitted:

**Table I – Physical Samples To Be Submitted At Pre-Award**

Time Period	Requirement
Pre-Award Stage (at bid closing)	One (1) pair of Air Force Hot Weather (Desert) Safety Boots in Mondopoint size 265/104 with an extra pair of laces and removable inserts.
Pre-Award Stage (at bid closing)	One (1) boot cut in half lengthwise (toe to heel) in Mondopoint size 265/104 to demonstrate how the boot is constructed.

**1.4 Evaluation of Conformance To Specified Materials And Measurements Outlined In Annex B.**

**1.4.1 Mandatory Material Testing Information.** As part of the evaluation, to confirm a Bidders' capability of meeting the technical and performance requirements, the test results or certificates of compliance outlined in Table II must be submitted.

Dated 4 Apr, 2016

**Table II – Mandatory Material Testing Information At Pre-Award**

Material	Reference in Annex B	Requirement and Reference	Testing Requirements and Frequency	
			Pre-Award	
Upper Leather	Paragraph 3.5.1	<b>CHEMICAL AND PHYSICAL PROPERTIES</b> test results in accordance with Annex B, Table I	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.	
Boot Lining	Paragraph 3.5.2	<b>BOOT LINING REQUIREMENTS</b> test results in accordance with Table II.	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.	
Grade 1 Impact Resistant Toe, Puncture Resistant Midsole Plate, and Electric Shock Resistant Outsole	Paragraph 3.0b, Paragraph 3.5.3, and Paragraph 3.5.4	<b>CSA CERTIFICATION</b> for Grade 1 Impact Resistant Toe, Puncture Resistant Midsole Plate, and Electric Shock Resistant Outsole	Test results must be submitted. Test results done by in-house facilities or accredited independent laboratory.	
Shanks	Paragraph 3.5.7	<b>SHANK REQUIREMENTS</b> in accordance with paragraph 3.5.7.	Certificate of compliance must be submitted.	
Laces	Paragraph 3.5.11	<b>LACE REQUIREMENTS</b> in accordance with Annex B, paragraph 3.5.11	Certificate of compliance must be submitted.	
Insoles	Paragraph 3.5.12	<b>INSOLE REQUIREMENTS</b> in accordance with Annex B, paragraph 3.5.12	Certificate of compliance must be submitted.	
Outsole Compound	Paragraph 3.5.14.1	<b>OUTSOLE REQUIREMENTS</b> in accordance with Annex B, Table VII.	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.	
Midsole to Outsole	Paragraph 4.2	<b>BONDING STRENGTH</b> test results in accordance with Annex B, paragraph 4.2.	Test results must be submitted. Test results done by source of supply's in-house laboratory <u>or</u> accredited independent laboratory.	

Dated 4 Apr, 2016

**1.5 Evaluation of quality of workmanship and ability to demonstrate capability to meet requisite technologies.**

**1.5.1 Workmanship and Construction Evaluation.** As part of the evaluation, to confirm a Bidders' submission for the quality of workmanship and for the ability to demonstrate capability to meet requisite technologies, the workmanship and construction will be evaluated using the criteria outlined in Table III.

**1.5.1.1 Definitions.**

**1.5.1.1.1 Deviation.** A deviation is defined as a non-compliance of an essential performance or design requirement outlined in **Annex B**.

**1.5.1.1.2 Infraction.** An infraction is defined as a workmanship or construction issue evaluated to be non-compliant that directly affects serviceability of the boot.

**1.5.1.1.3 Observation.** An observation is defined as a workmanship or construction issue evaluated to be non-compliant that does not necessarily affect serviceability of the boot but affects overall quality assurance.

**1.5.1.1.4 Maximum Infractions.** No workmanship and construction deviations will be accepted in any of the pre-award samples. A maximum of three (3) workmanship and construction infractions will be accepted in any of the pre-award samples. Observations will be noted and referenced in the pre-award evaluation to then be corrected in trial quantities and production. Workmanship or construction issues found with the submission not listed in Table III will be deemed as an observation.

**Table III – Workmanship and Construction Evaluation**

Reference in Annex B	Criteria	Classification of Infraction <sup>1</sup>	
		Deviation	Infraction
Paragraph 3.1c (Lace-To-Toe Closure)	The boot shall have lace-to-toe closure with speed lacing system with 6 tunnel loops and 4 eyelets in each quarter. The eyelets shall be at the lower end of the opening; the tunnel loops shall be fitted to the top of the opening		X
Paragraph 3.1e (Flex Notches)	The boot shall have two flex notches at the ankle on each quarter, 12 to 15 mm deep, above the vamp / quarter seam		X

<sup>1</sup>The classification of "infraction" is for the purposes of evaluation only.

Dated 4 Apr, 2016

Reference in Annex B	Criteria	Classification of Infraction <sup>1</sup>		
		Deviation	Infraction	Observation
Paragraph 3.1m (Finished Height)	The finished height measured outside the boot at the back, from the top of the welt to the top of the boot, shall be 21.5 to 22.5 cm. for Mondopoint size 265/104 and grade proportionately for each size;		X	
Paragraph 3.3 (Mondopoint Sizing System)	The boots shall be sized and labelled using the Mondopoint sizing system.	X		
Paragraph 3.3.2 (Lasts)	The boots shall be manufactured on lasts that are duplicates of Last DND-601ST.	X		
Paragraph 3.3.3 (Outsoles)	Outsoles shall be moulded using mould DND 601-3, creating a rubber unit sole with cavities. See Appendix 1, Figure 3.	X		
Paragraph 4.2.3 (Weight)	Weight for a pair of Mondopoint size 265/104 boots must be 1150.00 grams per boot (tolerance +/- 10.0 grams).	X		
Paragraph 3.5.19(Labeling)	Labeling omitted, incorrect, illegible, or incomplete.			X
Paragraph 5.0 (Packaging)	Packaging omitted, incorrect, or incomplete.			X
Construction and Assembly - General	<b>Applicable to all components and assemblies unless otherwise indicated.</b>			
Construction and Assembly - General	Any operation omitted or not properly performed, or any part missing.		X	
Construction and Assembly - General	Incomplete manufacturing process.		X	
Construction and Assembly - General	Cuts, tears, holes, rips, mend, lumps, creases, weak place, or other deficiencies seriously affecting serviceability.		X	
Construction and Assembly - General	Material defects such as, but not limited to, bone, loose, flaky, or otherwise inferior leathers, weak spots or mends, discolouration, etc.		X	
Construction and Assembly - General	Manufacturing defects such as, but not limited to, burns, blooms, staining, discolouration, hazing, blisters, embedded foreign material, pits, air pockets, etc.		X	

Dated 4 Apr, 2016

Reference in Annex B	Criteria	Classification of Infraction <sup>1</sup>		
		Deviation	Infraction	Observation
Construction and Assembly - General	Incomplete or incorrect bonding of bottoming components.		X	
Construction and Assembly - General	Needle chews likely to develop into a hole.		X	
Construction and Assembly - General	Poor or uneven lasting affecting serviceability.		X	
Construction and Assembly - General	Components missing or wrong size.		X	
Construction and Assembly - General	Noticeable separation of parts		X	
Construction and Assembly - General	Any open seam, any row of stitching missing, stitching uneven tension, appropriate number of stitches per inch for material, loose stitching resulting in loosely secured seam, tight stitch resulting in puckering of fabric or assembly, thread ends not trimmed, or parts caught in an unrelated row of stitching.		X	
Construction and Assembly - General	Grease, oil, or other foreign matter on outside or inside of finished footwear.		X	
Construction and Assembly - General	Pairs of finished boots not right and left of same size.		X	
Construction and Assembly - General	Pairs of finished boots have significant variation in shade or colour.		X	