

PART E
SPECIFICATIONS

PART E - SPECIFICATIONS

GENERAL

E1. GENERAL

E1.1 These Specifications shall apply to the Work.

E2. GOODS

E2.1 The Contractor shall supply fire fighter helmets in accordance with the requirements hereinafter specified.

E2.2 Standards:

- (a) All helmets, assemblies, components, parts and accessories shall, as a minimum, meet or exceed the current edition of NFPA Standard on Protective Ensemble for Structural Fire Fighting and shall be certified to be in compliance with the standard;
- (b) All individual elements shall be labelled and listed and shall also have a product label which meets the specific elements specified in 3-2.1 of the Standard;
- (c) The bidder shall provide appropriate evidence to demonstrate that they meet this requirement upon request.

E2.3 Shell:

- (a) The outmost part of the helmet:
 - (i) Colours available shall be yellow, red and white;
 - (ii) Preference may be given to a shell which is colour moulded throughout;
 - (iii) Shall have a permanently affixed metal D-ring on the back.

E2.4 Inner Shell & Suspension:

- (a) Part of energy absorbing system which attaches to the inside shell by means of hooks, fasteners or clips. Full domed shell (full over crown configuration) with a preferred suspension system. A six-strap system, secured between the inner shell and outer shells;
- (b) Shall be field replaceable with a minimal amount of effort or complexity.

E2.5 Retention System:

- (a) The assembly consisting of the chin strap, nape device, headband and sweat-liner. Retains helmet in position on the head;
 - (i) Shall have a ratchet-sizing nape device;
 - (ii) May have a removable sweat-liner (band) which attaches to the headband suspension system;
 - (iii) Retention system shall allow for maximum comfort, and be easily adjustable in size and height with an adjustable chin-strap;
 - (iv) The sweat-liner shall be quality-constructed with an absorbent material. The material shall be wrapped on the headband in a way that will not allow the sweat-liner to slip or come loose from the headband unit;
 - (v) All retention system components shall be field replaceable with a minimal amount of effort or complexity.

E2.6 Face Shield:

- (a) A single piece wraparound transparent lens attached to the shell with a pivot assembly or goggles:
 - (i) The face shield & shell design should incorporate a seal system which prevents liquids from passing between the face shield and shell when the face shield is in its full pulled-down position;
 - (ii) Shall be field replaceable with a minimal amount of effort or complexity;
 - (iii) Face shield shall be approximately 4" from top to bottom.

E2.7 Ear/Neck Liner:

- (a) An integral part of the helmet which provides protection to the ears and neck:
 - (i) The liner should cover the full crown of the head, ears, neck and throat. The liner shall be a flame resistant nomex or nomex blend with a 100% flame resistant cotton flannel lining & flame resistant thread;
 - (ii) Exact dimensions will be determined based on information collected during evaluation;
 - (iii) The liner shall be attached between the headband suspension system and the inner shell six-strap web suspension system;
 - (iv) All cut outs for attachment to the suspension system shall be constructed in such a manner to prevent rips and tears;
 - (v) The liner shall not slip forward which can impair the vision of the Fire Fighter;
 - (vi) Shall be field replaceable;
 - (vii) The fit of the liner is critical to the comfort and style of the helmet. If an off-the-shelf liner meeting the above requirements is not available, the Contractor shall provide a custom-made liner;
 - (viii) The liner shall be suitable for cold weather use.

E2.8 Replacement Parts:

- (a) New parts and components which are completely interchangeable with parts and components supplied with the original helmet:
 - (i) All replacement parts shall be new and unused;
 - (ii) The helmet shall have a complete line of replacement parts including but not limited to a shell, inner shell, retention system & components, sweatband, liner, chinstrap, face shield and face shield mounting brackets.

E2.9 Labelling:

- (a) In addition to meeting the labelling requirements of the current NFPA Standard , labelling shall address the date of manufacture, the manufacturer's name, and a garment identification number.

E3. DELIVERY

E3.1 Goods shall be delivered on an "as required" basis during the term of the Contract, f.o.b. destination, freight prepaid, to 2546 McPhillips Street, Winnipeg, Manitoba.

E3.1.1 Delivery of the complete helmet assembly (shell, inner shell & suspension, retention system, face shield and ear/neck liner attached) shall be delivered within thirty (30) Calendar days of the placing of an order, except where otherwise agreed at the time of ordering.

E3.1.2 Delivery of replacement parts and accessories shall be delivered within ten (10) Calendar days of the placing of an order, except where otherwise agreed at the time of ordering.

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E3.2 Goods shall be delivered between 7:30 a.m. and 4:00 p.m. on Business Days.

E3.3 The Contractor shall off-load goods as directed at the delivery location.

E4. SHIPPING AND PACKAGING

E4.1 The helmet shall be shipped fully assembled with the shell, inner shell & suspension, retention system, face shield, and ear/neck liner attached.

E4.2 Replacement parts and accessories shall be shipped and labelled