



NFCC
National Fire
Chiefs Council

The professional voice of the
UK Fire & Rescue Service

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Firefighters Personal Protective Equipment

Standard, Specification and Requirements

Wildland Firefighting Helmet

Specialist PPE Project – Oct 2021

SCOPE

This performance specification describes the requirements for a protective wildland firefighting helmet for both male and female fire fighters.

The helmet should offer the wearer protection from injuries, which could arise through accidents in the working sector for which the helmet is designed.

The fire boot is to be CE marked to BS ISO 16073-5:2019 *Wildland firefighting personal protective equipment — Requirements and test methods — Part 5: Helmets* and BS EN 16471:2014 *Firefighters helmets. Helmets for wildland fire fighting*.

PERFORMANCE REQUIREMENTS

Description and Use

Provision of protective helmet that meets the general and specific needs of Fire & Rescue Service (FRS) operational personnel.

The product must be suited to the range of wildland firefighting activities carried out during emergency response and training operations. The product must be of such design, robustness, material and specification to meet the needs of these operations. It should also be simple to clean, repair and maintain.

All test performance data must be submitted with tender document, please indicate compliant and submitted where requested. All documentation to be in English.

Firefighting PPE is designed, following a suitable risk assessment, to protect firefighters from risks that cannot be removed by other means.

One potential emerging risk to firefighter's health is exposure to contaminants as a result of the incidents that they attend; some of these contaminants may be carcinogenic.

All Contractors should be mindful of these emerging risks and as such ensure that the PPE is designed to be easily cleaned and decontaminated. In addition methods for identifying that the PPE may be contaminated should also be considered when designing the PPE.

Wildland helmets		
Requirement Reference Number	Requirement	Response Criteria
A1	<p>Helmet, complete with neck protector</p> <p>Must conform to BS ISO 16073-5:2019 and BS EN 16471:2014</p> <p>NB. Due to unique requirements in both standards dual certification is required.</p>	<p>Evidence from Tenderer shall constitute:</p> <p>(1) Independent Certification from test laboratories that are accredited to their respective National Accreditation Service, The National Accreditation Service must be members of either EA or ILAC and comply with ISO/IEC 17011:2017. Validity of Certification must be 6 months or more prior to date of expiry, or; A signed letter on official letterhead from the relevant test house stating that work to complete the required certification has been commissioned and certification will be achieved before the required deadline.</p> <p>(2) Detailed Product specification.</p>
A2	<p>Compatibility</p> <p>Helmets must to BS ISO 16073-2:2019 or ISO/TS 11999-2</p> <p>NB. BS ISO 16073-2 requires wildland clothing to meet the requirements of ISO/TS 11999-2</p>	<p>Evidence from Tenderer shall constitute:</p> <p>(1) Independent test report from test laboratories that are accredited to their respective National Accreditation Service, The National Accreditation Service must be members of either EA or ILAC and comply with ISO/IEC 17011:2017. Validity of Certification must be 6 months or more prior to date of expiry, or; A signed letter on official letterhead from the relevant test house stating that work to complete the required testing has been commissioned and test report will be achieved before the required deadline.</p> <p>(2) Detailed Product specification.</p>

Wildland helmets - General Requirements		
B1	<p>Helmet must be fully adjustable to fit all head circumferences size to fit all sizes between 52cm to 64cm</p>	<p>Evidence from Tenderer shall constitute:</p> <ul style="list-style-type: none"> • Detailed Product specification
B2	<p>Each garment will need to be uniquely barcoded in order that the Authority is able to track each garment, particularly if a garment is sent for cleaning, repair and maintenance.</p> <p>The Tenderer must provide an inventory of barcodes with each order delivered and hold a central database of all barcodes assigned to each order for each Participating Authority.</p> <p>If providing cleaning, repair and maintenance services, the Tenderer must use the unique barcodes to enable both the Tenderer and the Authority to track the garments throughout each stage of the respective service provision. This information must therefore be accessible to both the Tenderer and Participating Authority throughout the life of each call-off arrangement.</p>	<p>The Tenderer must provide relevant evidence to demonstrate how the requirement shall be met, and shall include product information of the barcoding system that shall be used to meet the requirement.</p>
B3	<p>Ventilation system to reduce the potential for overheating</p>	<p>Evidence from Tenderer shall constitute:</p> <ul style="list-style-type: none"> - Detailed product specification, which includes evidence as to how the ventilation system reduces the potential for overheating. - User guidance to provide detailed information on how the ventilation system works to reduce the potential of overheating, to be provided in English.
B4	<p>Helmets must be available in the choice of the following 3 colours; red or white or yellow</p>	<p>Evidence from Tenderer shall constitute:</p> <p>Confirmation from the Tenderer that the helmets shall be provided in all 3 colours and provide a colour chart of the actual colour of the helmet that shall be provided under the Framework.</p>

Wildland helmets - Additional Documentation		
C1	<p>The Tenderer shall provide all relevant user documentation and manuals that details how the item is:</p> <ol style="list-style-type: none"> 1. Safely used and adjusted (if necessary) 2. Maintained, including repair if relevant 3. Cleaned <p>All of these to be published in English.</p>	<p>Evidence from Tenderer shall constitute:</p> <p>User documents that come with the product detailing all the requirements (1, 2, and 3 as listed) in English on company headed or branded paperwork</p>

Wildland helmets - Optional Fire Service Requirement		
D1	<p>Helmet must have attached hearing protection, compliant to BS ISO 16073-5, section 4.11</p> <p>Compliant to BS ISO 16073-8, section 4.4 or EN 352-3</p> <p>NB. BS ISO 16073-8 requires hearing protection attached to helmet to meet EN 352-3</p>	<p>Evidence from Tenderer shall constitute:</p> <ol style="list-style-type: none"> (1) Independent Certification from test laboratories that are accredited to their respective National Accreditation Service, The National Accreditation Service must be members of either EA or ILAC and comply with ISO/IEC 17011:2017. Validity of Certification must be 6 months or more prior to date of expiry, or; A signed letter on official letterhead from the relevant test house stating that work to complete the required certification has been commissioned and certification will be achieved before the required deadline. (2) Detailed Product specification.
D2	<p>Helmet must have attached lighting system, compliant to BS ISO 16073-5, section 4.11</p>	<p>Evidence from Tenderer shall constitute:</p> <ol style="list-style-type: none"> (1) Independent Certification from test laboratories that are accredited to their respective National Accreditation Service, The National Accreditation Service must be members of either EA or ILAC and comply with ISO/IEC 17011:2017. Validity of Certification must be 6 months or more prior to date of expiry, or; A signed letter on official letterhead from the relevant test house stating that work to complete the required certification has been commissioned and certification will be achieved before the required deadline. (2) Detailed Product specification.

<p>D3</p>	<p>Helmet must have attached non-mesh eye protectors, compliant to BS ISO 16073-5, section 4.11</p> <p>Compliant to BS ISO 16073-7, section 4.3 and optional requirement 4.3.3.3 resistance to fogging of oculars and section 4.3.3.4 oculars with enhanced reflectance to the infrared</p>	<p>Evidence from Tenderer shall constitute:</p> <p>(1) Independent Certification from test laboratories that are accredited to their respective National Accreditation Service, The National Accreditation Service must be members of either EA or ILAC and comply with ISO/IEC 17011:2017. Validity of Certification must be 6 months or more prior to date of expiry, or; A signed letter on official letterhead from the relevant test house stating that work to complete the required certification has been commissioned and certification will be achieved before the required deadline.</p> <p>(2) Detailed Product specification.</p>
<p>D4</p>	<p>Helmet must have attached mesh eye and face protectors, compliant to BS ISO 16073-5, section 4.11</p> <p>Compliant to BS ISO 16073-7, section 4.4</p>	<p>Evidence from Tenderer shall constitute:</p> <p>(1) Independent Certification from test laboratories that are accredited to their respective National Accreditation Service, The National Accreditation Service must be members of either EA or ILAC and comply with ISO/IEC 17011:2017. Validity of Certification must be 6 months or more prior to date of expiry, or; A signed letter on official letterhead from the relevant test house stating that work to complete the required certification has been commissioned and certification will be achieved before the required deadline.</p> <p>(2) Detailed Product specification.</p>