



Personal Protective Equipment Regulation (EU) 2016/425

Certificate

Module B EU Type-Examination

Manufacturer

Bristol Uniforms Ltd

Units 11-14, Beeches Industrial Estate, Waverley Road, Yate, BS37 5QR

Product Description:

Combined X4 Technical Rescue and Wildland Suit

Product Code:

Coat 36492A and Trousers 36492B

Technical File Reference:

TF 357

Harmonised Standard(s):

EN ISO 13688:2013+A1:2021; EN 1149-5:2018

Technical Specification:

EN ISO 15384:2020+A1:2021 (with lining removed only) (excluding clause 6.3 heat resistance);
EN 16689:2017 (two-layer assembly only) (excluding clause 7.9 Visibility)

Certificate Number: SH01506

Issued by: Shirley® (Notified Body No. 2895 for Regulation (EU) 2016/425)

First issue: 08 December 2023 **Date of Issue:** 08 December 2023 **Expiry:** 08 December 2028

Authorised by

K Bolton

Senior Certification Officer

The attached schedule of approval forms part of this certificate.
Note: The validity of this certificate can be confirmed by contacting the Issuing Office:
Shirley Technologies (Europe) Limited, Sky Business Centre, Port Tunnel Business Park, Office 13
Unit 21, Clonsaugh Business & Technology Park, Dublin 17, ROI
Tel: +353 (0) 01894 1448 **email:** info@shirley.ie **website:** www.shirley.ie





Schedule of Approval
Certificate Number: SH01506

First Issued:	08 December 2023	Page No:	2 of 6
Issue date:	08 December 2023	Issued by:	Shirley® (Notified Body No. 2895)
Expiry date:	08 December 2028	Shirley® ref:	SH-029736
Manufacturer:	Bristol Uniforms Ltd		
Technical file ref:	TF 357		

Shirley®, specified as a "notified body" under the terms of the Regulation (EU) 2016/425 of the European Parliament and of the Council on personal protective equipment, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the relevant provisions of Annex V (Module B) of the Regulation and with the applicable essential health and safety requirements, subject to any conditions in the schedule attached hereto.

The certificate relates specifically to the PPE items described and depicted in the manufacturer's Technical File, copies of which are held by the manufacturer and Shirley®, and not to any other items.

The certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Description of product

Combined X4 Technical Rescue and Wildland Suit consisting of:

36492A	Combined X4 Technical Rescue and Wildland Coat
36492B	Combined X4 Technical Rescue and Wildland Trousers

Available in the following materials:

Main Fabric:	UT4; 65% Lenzing FR / 22% Meta-aramid / 12% Polyamide / 1% Antistatic; 250 gsm; Navy and HV Yellow
Detachable Lining Fabric:	M12; GORE-TEX Moisture Barrier with GORE CROSSTECH Product Technology – Flameliner G 2L; 170 gsm
Visibility Tape:	3M 5697; Y/S/Y; 50 mm

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Manufacturers Technical Specification

The manufacturer's Technical Specification for protective clothing was based on EN ISO 15384:2020 "*Protective clothing for firefighters – Laboratory test methods and performance requirements for wildland firefighting clothing*" and EN 16689:2017 "*Protective clothing for firefighters. Performance requirements for protective clothing for technical rescue*". The suitability of this Technical Specification was checked with respect to the Essential Health and Safety Requirements of EU Regulation 2016/425, and was found to address the requirements for this end use.

The following clauses were excluded from the manufacturers Technical Specification:

EN ISO 15384:2020 Clause 6.3 (heat resistance)

The following items – touch & close fasteners and cuffs - used on the wildland suits do not meet the requirements for clause 6.3 when tested according to EN ISO 15384:2020 which states "*Test each material including badges, patches, embroideries, rank markings, hardware and closure systems, including retroreflective and/or fluorescent materials separately. Carry out tests after the pretreatment as specified in 5.3. When tested in accordance with ISO 17493 at a temperature of $(260 \pm 5) ^\circ\text{C}$, for $5 \text{ min} \pm 15 \text{ s}$, no material shall melt, drip, ignite or shrink $>10 \%$.*".

Whilst the hardware fails to meet the requirement as above, they did pass to the lower heat resistance temperature of 180°C and should be covered by compliant fabric when in use. The end user must decide on the basis of a risk assessment whether the use of this item is acceptable.

The knee assembly of the Trousers contains a "closed cell rubber sponge" material F26BL. This material also does not meet the requirements of Clause 6.3. Shrinkage of the F26BL was 13.8 % and 15.7 %. Testing was carried out with material F26BL exposed. In the garment this would be located inside the knee assembly. The end user must decide on the basis of a risk assessment whether the use of this item is acceptable.

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EN 16689:2017 Clause 7.9 Visibility

The garments do not meet the requirements of EN 16689:2017 Clause 7.9 for area of retroreflective and fluorescent material. The area of material on the submitted garments (size S Reg) was calculated as approximately 0.32 m² of retroreflective and 0.48 m² of fluorescent.

The end user must decide on the basis of a risk assessment whether the area and configuration of retroreflective / fluorescent materials is acceptable.

Limitations of Use

- Usage, maintenance and storage as per manufacturer's instructions.

Observations

- The Fire Tunic together with Fire Trousers meet the minimum requirements for area of retroreflective and fluorescent material as required by Clause 9.2 of EN ISO 15384:2020.

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Approval Documents

- Design report No. E-029675/A; E-032329/E; E-029675/B
- Ergonomic Assessment test report No. 52315/2/2/CS
- Component Assembly test report No. 2018CO1546; 60/01590; E-032329/A; E-015676/A; 2021CO4844; 30/08355/2
- Garment test report No. E-020100/A
- Materials test report No. E-011150/O; E-020239/A; E-004621; 30/08309/2; 30/07407/2; 30/08309/3; E-032329/B; E-032329/C; E-011150/M; E-021454; E-014894/L; 2022 0872.1
- Hardware test report No. E-020100/B; E-032329/D; 2019 2485; E-021454; E-011150/K
- Visibility test report No. 354276A01; 220166
- Innocuousness information – OEKO-TEX® Test No. 980887; 96.0.9650

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Terms and Conditions associated with the issue of this EU Type-Examination Certificate

1. This certificate is issued subject to Shirley®'s standard terms of business, available from our website.
2. Production is limited to the site(s) listed in the manufacturer's Technical File, copies of which are held by the manufacturer and Shirley®, and not to any other production site(s).
3. The client must implement appropriate changes as notified by Shirley®.
4. The client must ensure the certified product is representative of the ongoing manufactured product.
5. The client must make provision for access to relevant documents and records.
6. The client must investigate complaints associated with the certified products. Records of such complaints, and actions taken, must be kept by the client and made available to Shirley® when requested.
7. The client must only make claims consistent with the scope of certification,
8. The client must not make any misleading or unauthorised comments regarding the certified product or the certification body.
9. The client must upon suspension, withdrawal, or termination of certification discontinue the use of all advertising matter that contains any reference thereto and take action to return this certificate to Shirley®.
10. The client must comply with the requirements for the use of the notified body number as detailed below.
11. Any change to the product or quality manual / quality plan shall be immediately notified to Shirley®.
12. This certificate is issued in the English language only. It is the responsibility of the Manufacturer / Authorised Representative to obtain and supply language versions acceptable to the country where the product is to be sold. This certificate remains the property of Shirley® and will be withdrawn if any of the conditions attached to its issue are not complied with.
13. The EC mark consists of the letters 'CE', in the form given in Annex II of Regulation (EC) No 765/2008 and for category III PPE, followed by the number of the notified body involved in production control monitoring (Module C2 or D).
14. This certificate does not authorise the use of the Mark of Conformity (the 'CE mark'), which may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when Module C2 or D of the Regulation is fully complied with and controlled by a written agreement with a notified body.

Use of Notified Body Number

1. The Notified Body Number must only be used
 - a. In direct association with products or systems covered by this Type-Examination Certificate.
 - b. by holder(s) of the Certificate.
2. Use of Shirley® Notified Body Number does not extend to other companies which are:
 - a. part of the same corporate group as the Certificate holding company: or
 - b. named in a Certificate, for example as a supplier.
3. Particular care must always be taken to avoid the association of the Shirley® Notified Body Number with other products or systems or schemes and with claims or information not contained in the Shirley® document.

If any of the above requirements are not met Shirley® will seek to suspend, withdraw or terminate this certificate.

END OF SCHEDULE