



Personal Protective Equipment Directive (89/686/EEC)

Certificate

Article 10 EC Type-Examination

Manufacturer
Beeswift Ltd

Delta Point, Greets Green Road, West Bromwich, West Midlands, B70 9PL

Product Description:
4kA Coverall & Trousers

Product Code:
CARC153; CARC152

Technical File Reference:
523263

Harmonised Standard(s):
EN ISO 13688:2013; EN ISO 20471:2013+A1:2016 (Class 2: CARC152; Class 3: CARC153); EN 1149-5:2008 (using EN 1149-3:2004); EN ISO 11611:2015 (A1 A2 Class 1); EN ISO 11612:2015 (A1 A2 B1 C1)

Technical Specification:
IEC 61482-2:2009; EN 61482-1-1:2009 (9.3 cal/cm²); EN 61482-1-2:2014 (Class 1 = 4 kA);
RIS-3279-TOM Issue One (2016)

Certificate Number: 523263/1

Issued by: BTTG™ (Notified Body No. 0338 for EC Directive 89/686/EEC)

First issue: 24 January 2019 **Date of Issue:** 28 February 2019 **Expiry:** 24 January 2024

Authorised by

J Lumb

Certification Officer

Authorised by

C A Butcher

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:
BTTG™, Unit 6 Wheel Forge Way, Trafford Park, Manchester, M17 1EH, United Kingdom
Tel: +44 (0)161 876 4211 email: ppe@bttg.co.uk website: www.bttg.co.uk



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Issue date:	28 February 2019	Issued by:	BTTG™ (Notified Body No. 0338)
Expiry date:	24 January 2024	BTTG™ ref:	E-004623

Manufacturer: Beeswift Ltd
Technical file ref: 523263

BTTG™, specified as a "notified body" under the terms of the Personal Protective Equipment Regulations 2002, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the relevant provisions of EC Directive 89/686/EEC, or as amended, subject to any conditions in the schedule attached hereto. The PPE type complies with the applicable essential health and safety requirements.

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 BTTG™, 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

4kA Coverall & Trousers consisting of:

CARC153	4 kA Orange Coverall; Hi Vis Orange with two horizontal bands of retroreflective tape on the torso, lower arms and lower legs.
CARC152	4 kA Orange Trousers; Hi Vis Orange with three horizontal bands of retroreflective tape on the lower legs.

Available in the following materials:

Main Fabric: **F361; 60% Modacrylic / 40% Cotton with Antistatic Grid (300 gsm) (HV Orange)**

Retroreflective: **Chinastars Heat Transfer CSR1303FR**

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Manufacturers Technical Specification

The manufacturer's Technical Specification for clothing for the end use of protection from the thermal hazards of an electric arc was based on IEC 61482-2:2009 "Live working – Protective clothing against the thermal hazards of an electric arc – Part 2: Requirements". The materials and garments were assessed according to IEC 61482-1-1:2009 "Live working – Protective clothing against the thermal hazards of an electric arc – Part 1-1: Test methods – Method 1: Determination of the arc rating (ATPV or E_{BT50}) of flame resistant materials for clothing" and IEC 61482-1-2:2014 "Live working – Protective clothing against the thermal hazards of an electric arc – Part 1-2: Test methods – Method 2: Determination of arc protection class of material by using a constrained and directed arc (box test)". The suitability of these standards was checked with respect to the Basic Health and Safety Requirements of EC Directive 89/686/EEC, and were found to address the requirements for this end use.

As well as conforming to the Harmonised Standards EN ISO 13688:2013 and EN ISO 20471:2013, the manufacturer's Technical Specification for high visibility warning clothing included the Railway Industry Standard RIS-3279-TOM Issue One (2016). The garments listed above (in HV Orange) meet the applicable requirements of RIS-3279-TOM (2016).

Limitations of Use

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

Observations

Clause 5.5.2 Durability of marking

The garment labels failed to meet Clause 5.5.2 "Durability of marking" after becoming partially illegible after rubbing with water and isopropanol (CH₃-CH(OH)-CH₃). The manufacturer has indicated that their labels withstand normal expected use and can withstand more than 30 cycles of industrial washing, and that they remain legible during the expected lifetime of the garment. The end user must decide on the basis of a risk assessment whether the printing on the garment labels is sufficiently durable for their end use.

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Approval Documents

- Design report Nos. 522082/H/AN; E-004107/B; 52735/C1/CS; 52735/C2/CS; 52735/E1/CS; 52735/E2/CS
- Ergonomic Assessment test report Nos. 52735/B1/CS; 52735/B2/CS
- Fabric test report Nos. 2401057A/9/10; 38925-01 (Amended); K-418310; 1811P05-SP; 11/14833/PJH; 2018CN0171; 2018CN0231; 38925 (Amended); HKSL1510156902TX; GZHT90852263; 521073/A/1/FTS
- Hardware test report Nos. 52735/A/1/FTS; SHSL1303033553TX
- Garment test report Nos. 52735/A/6/FTS; 521073/A/1/FTS; 52735/A/10/FTS; 521175/D/FTS; 2012 2233; K-418812-1512T05-R00; 52735/A/11/FTS
- Retroreflective test report No. SPC0218053/1338
- Innocuousness information – OEKO-TEX® Test No. BEVO 098332

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

1. This certificate is issued subject to BTTG™'s standard terms of business.
2. Production is limited to the site(s) listed in the manufacturer's Technical File, copies of which are held by the manufacturer and BTTG™, and not to any other production site(s).
3. The client must implement appropriate changes as notified by BTTG™.
4. The client must ensure the certified product is representative of the ongoing manufactured product.
5. 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 BTTG™ when requested.
6. The client must only make claims consistent with the scope of certification,
7. The client must not make any misleading or unauthorised comments regarding the certified product or the certification body.
8. 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 BTTG™.
9. The client must comply with the requirements for the use of the notified body number as detailed below.
10. Any change to the product or quality manual / quality plan shall be immediately notified to BTTG™.
11. 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 BTTG™ and will be withdrawn if any of the conditions attached to its issue are not complied with.
12. 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 Article 11(A or B) of the Directive 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 BTTG™ 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 BTTG™ Notified Body Number with other products or systems or schemes and with claims or information not contained in the BTTG™ document.
4. The EC mark consists of the letters 'CE', in the form given in Annex II of Regulation (EC) No 765/2008, followed by the number of the notified body involved in production control monitoring (Article 11).

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

END OF SCHEDULE