



EC Type-Examination Certificate

522434/3

Date of Issue: 15 September 2016

Expiry date: 16 June 2021

This is to certify that BTTG Testing & Certification Ltd, 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.

Manufacturer: Beeswift Ltd

Address: West Wing Delta House
Delta Point, Greets Green Road
West Bromwich, West Midlands
B70 9PL

Product Description: HV Sweatshirt

Product Code: CARC08

Technical File reference: CARC

Harmonised Standard(s): EN ISO 13688:2013
EN ISO 11612:2015 (Code letters A1, B1, C2)
EN ISO 20471:2013 (Class 3)
EN 1149-3:2004 & EN 1149-5:2008

Technical Specification: EN 61482-1-2:2007 (Class 1 = 4 kA)
EN 61482-1-1:2009 (ATPV = 12.6 Cal/cm²)
IEC 61482-2:2009

This 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 attached schedule of approval forms part of this certificate. This certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Certificate Authorised by:  J L Wilson
Certification Officer

and:  Q Brown
Senior Certification Officer

Notified Body for PPE
Testing & Certification
I.D. No. 0338 & 0339



Issued by BTTG Testing & Certification Ltd., Notified Body Identification No. 0338 and 0339. 522434

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Schedule of Approval

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Beeswift Ltd

CARC

CONDITIONS OF CERTIFICATION

Description of product

Flame retardant, antistatic clothing:

HV Sweatshirt

CARC08

Sweatshirt consists of a HV yellow background, with HV yellow cuffs and collar and an open bottom. Two bands of retroreflective encircling the torso and arms, and a band over each shoulder adjoining the upper torso bands from front to back.

Available in the following materials:

Background: **FKMF0007; 60/40 Modacrylic Cotton with Antistatic (300 g.m⁻²) (HV Yellow)**

Retroreflective: **Chinastars Heat Transfer CS4003**

Manufacturer's 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 61482-1-2:2007 "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.

Limitations of Use

- Usage, maintenance and storage as per manufacturer's instructions.
- The CARC08 Sweatshirt does not cover the wearer's neck. If used with undergarments or shirts with a collar that extends above the level of the sweatshirt collar, the undergarment or shirt must also be flame retardant and antistatic.
- The pre-treatment for the "Arc Thermal Resistance" test specified in EN 61482-1-1:2009 for the FKMF0007 fabric conformed to ASTM F1959 and consisted of three cycles of washing, rather than the five cycles as described by the manufacturer's care instructions. In the opinion of BTTG Testing & Certification, this should not significantly affect the test results obtained.

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Schedule of Approval (continued)

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Beeswift Ltd

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DOCUMENTATION SUBMITTED (Technical File – CARC):

Approval Documents

- Design report Nos. 52735/G/AN; 52735/E4/CS
- Ergonomic Assessment test report No. 52735/B3/CS
- Fabric test report Nos. 60/00099/4; 60/00099/3; 38926-01 (Amended); 2015EP1617; K-418135; 60/00099/2; 30/00099/3/AN
- Garment test report Nos. 52735/A3/FTS; 52735/A8/FTS
- Other test report No. 521175/D/FTS
- Retroreflective test report Nos. SHSL1510249315TX; SHSL1303033553TX
- Innocuousness information - Oeko-Tex Test-No. BEVO 098332

Product Documentation

- Product description
- Drawings
- Fabric description and test data
- Supplier's Innocuousness statement for fabric
- Component list
- Size chart
- Article 11B certificate for manufacturing site
- Labelling
- User Information

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Schedule of Approval (continued)

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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 CERTIFICATE