



EC Type-Examination Certificate

521313/1

Date of Issue: 5 September 2013

Expiry date: 5 September 2018

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.

Product Description: Fire Fighter Clothing

Product Code:

Jacket	SOLAR 4000 FB40	Trouser	SOLAR 4000 FB41
Jacket	SOLAR 5000 FB50	Trouser	SOLAR 5000 FB51

Technical File reference: 521136

Harmonised Standard(s): EN 340:2003
EN 469:2005/A1:2006+AC:2006 (Levels Xf2 Xr2 Y2 Z2)

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:  Q Brown
Certification Officer

and:  C A Butcher
Certification Manager

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



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

Schedule of Approval

Certificate No: 521313/1 Date of Issue: 5 September 2013 Expiry date: 5 September 2018
Issued by: BTTG Testing & Certification Ltd. Notified Body No. 0339.

CONDITIONS OF CERTIFICATION

Description of product

Fire fighter clothing consisting of:

Jacket SOLAR 5000 FB50	Trouser SOLAR 5000 FB51
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Available in the following materials:

Outer: Tecashield® MI 9180 Millenia Light; 59% Para-aramid / 39% PBO / 2% Static-control (180g.m⁻²)
Membrane: Tecashield® CX140; 3-D Spunlace Non-woven 100% Aramid + ePTFE (210g.m⁻²)
Lining: Tecashield® GoldCheck CZ 703; 100% Meta-aramid (130g.m⁻²)
Visibility: VIZLITE 305 Reflective Tape
Anti Wicking: Art 44 100 135 001801; 100% Aramid; PU Coating

Fire fighter clothing consisting of:

Jacket SOLAR 4000 FB40	Trouser SOLAR 4000 FB41
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Available in the following materials:

Outer: Art 44 115 197; 75% Meta-aramid / 23% Para-aramid / 2% Antistatic (195g.m⁻²)
Membrane: FB 008; 48% Basofil / 26% Aramid / 26% Para-aramid + ePTFE (90g.m⁻²)
Lining: Tecashield® CQ8 (Q-8™); Meta-aramid / Viscose FR non-woven thermal barrier quilted to 50% aramid / 50% modacrylic woven lining (270g.m⁻²)
Visibility: VIZLITE 305 Reflective Tape
Anti Wicking: Art 44 100 135 001801; 100% Aramid; PU Coating

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Limitations of Use

- Usage, maintenance and storage as per manufacturer's instructions.
- The hardware on the garments was tested to Clause 6.1 of EN 469:2005 (Flame Spread), but with the method modified by the procedure detailed in the Co-ordination of Notified Bodies 'Recommendation For Use' sheet No. 21-013, approved by Vertical Group 5 on 09/05/2006. The recommended method is to apply the flame to the outer surface of the region of clothing containing the hardware, if that hardware is concealed from flame in use, rather than to apply the flame directly to the hardware, as specified in EN 469. Using the procedure detailed above, all of the hardware on the garments meet the requirements of 6.1.6 of EN 469:2005, i.e. the hardware functions after the test.

Observations

- The Solar 4000 FB40 Jacket and Solar 4000 FB41 Trousers, when worn together, meet the requirements of Annexes B.1 and B.2 of EN 469:2005 (Visibility) for area of retroreflective and fluorescent respectively, as required by Clause 6.14 of EN 469. The area of material was calculated as 0.13m² of retroreflective and 0.20m² of fluorescent.
- The Solar 5000 FB50 Jacket and Solar 5000 FB51 Trousers, when worn together, meet the requirements of Annexes B.1 and B.2 of EN 469:2005 (Visibility) for area of retroreflective and fluorescent respectively, as required by Clause 6.14 of EN 469. The area of material was calculated as 0.15m² of retroreflective and 0.22m² of fluorescent.

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Schedule of Approval (continued)

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DOCUMENTATION SUBMITTED (Technical File – 521136):

Approval Documents

- Design report Nos. 521136/A1/CS; 521136/A2/CS; 521136/A3/CS
- Material assembly test report Nos. 30/04446/1; 30/06160/1; 1254/08; 0262/09; 30/04339/2
- Garment test report Nos. 521136/C/FTS; 521136/D/AN; 30/06160/1; 30/06317
- Hardware test report Nos. 30/06160/6; 30/06160/7; 521313/A/FTS
- Materials test report Nos. 30/04285/1; 228.993-E; 0792/08
- Anti-wicking test report No. 30/06160/3
- Visibility test report Nos. SPC0186602/1028 (Issue 2); SPC0187510/1038/3 (Issue 2)
- Other test report Nos. 5090069; 30/06160/6
- Ergonomic Assessment test report Nos. 521136/B1/CS; 521136/B2/CS; 521136/B3/CS
- Innocuousness test report Nos. 30/04285/1; 32161
- Innocuousness information - Oeko-Tex Test-Nos. 60414302; Ö 00-0981; 11-29626; 2011OK0251; S06-0287

Product Documentation

- Product description
- Drawings
- Fabric description and test data
- Supplier's Innocuousness information for fabric
- Component list
- Size chart
- Quality system for manufacturing sites
- Article 11B information for manufacturing sites
- Labelling
- User Information
- Statement of end use

Terms and Conditions associated with the issue of EC Type-Examination Certificate No: 521313/1

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. Any change to the product or quality manual / quality plan shall be immediately notified to BTTG.
4. 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.
5. This certificate remains the property of BTTG and will be withdrawn if any of the conditions attached to its issue are not complied with.
6. 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.

END OF CERTIFICATE