



**FIRE
TECHNOLOGY
SERVICES**

Confidential Report

Our Ref: 27/03403B/01/15

Notified Body
for PPE Directive,
Construction Products
Regulation & Marine
Equipment Directive
I.D. No. 0338 & 0339

**British Carpet Technical Centre
Wira House, West Park Ring Road,
Leeds, LS16 6QL**

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**FIRE
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BTTG Testing & Certification Ltd.
Wira House
West Park Ring Road
Leeds, LS16 6QL
England

Tel: +44 (0)113 259 1999
Web: <http://www.bttg.co.uk>
Email: CSLeeds@bttg.co.uk

3 February 2015

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Client: Gudbrandsdalens Uldvarefabrik
Serviceboks
N-2626 Lillehammer
Norway

Job Title: **Fire Test on One Sample of Fabric**

Clients Order Ref: ---

Date of Receipt: 8 January 2013

Description of Sample: One sample of fabric, referenced: **5217 Hemsedal**.

Work Requested: Fire Technology Services were requested to carry out a fire test on the sample supplied to IMO FTP Code 2010 Part 8.





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Gudbrandsdalens Uldvarefabrik

Product Description

| | |
|---|--------------------------------|
| Type of Furniture, e.g., Seat, Sofa, Office Chair, etc;. | Seats, sofas and office chairs |
| Name and/or Identification of the Product Tested | 5217 Hemsedal |
| Materials of the Product and its Composite Ratio (i) | 90% Wool / 10% Polyamide |
| Composition of Weave (ii) | Dobby Basket Weave |
| Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and | Cm: 14,6 / 7,5 |
| Yarn Number Count | Nm 17,5 / Nm 3 |
| Thickness (mm) | 2,4 |
| Mass per Unit Area (g/mm ²) | 850 g/m ² |
| Colour and Tone (iii) | Colour range of 10 colours |
| Method and Quantity of Fire Retardant Treatment | No treatment |

- (i) Such as wool, nylon, polyester, etc.
(ii) Such as plain, weave, twilled.
(iii) If the product has a pattern, the representative colour shall be described.



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FIRE TESTS ACCORDING to IMO FTP Code 2010:Part 8 (replacing IMO A652 (16)) Test for Upholstered Furniture

Date of Test: 02/02/15

Conditioning

Immediately prior to testing the sample was placed in indoor ambient conditions for 72 hours and then conditioned in a standard atmosphere of $20 \pm 5^\circ\text{C}$ temperature and $50 \pm 20\%$ relative humidity for at least 16 hours.

The sample was tested in a room of volume 25m^3 and 22°C .

Procedure

The sample was tested in accordance with IMO FTP Code 2010:Part 8 using ignition sources 0 and 1. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard.

The specimens were mounted over fillings of standard non-FR polyurethane foam of density about 22Kg/m^3 .

Requirements

| | |
|--------------------------|---|
| <u>Ignition Source 0</u> | No progressive smouldering or flaming within one hour of the placement of the cigarette. |
| <u>Ignition Source 1</u> | All progressive smouldering and flaming to cease within 120sec of removal of the burner tube. |





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Results

| Ignition Source | Specimen 1 | | Specimen 2 | |
|--------------------------------|------------|-----|------------|-----|
| | 0 | 1 | 0 | 1 |
| Ignition Time (secs.) | -- | 6 | -- | 7 |
| Exinction Time (Flame) (secs.) | -- | 21 | -- | 23 |
| Exinction Time (Smoke) (secs.) | 1680 | 30 | 1713 | 33 |
| Time of Cover Split (secs.) | DNS | DNS | DNS | DNS |

| Observations | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Cigarette Did Not Propagate | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Manually Extinguished | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Burnt Through Thickness of Foam | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Material Did Not Split | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Burnt to Edge of Specimen | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Escalating Combustion | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Escalating Smouldering | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Did Not Observe Time of Event | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| Criteria | | |
|---|------------|------------|
| Smouldering Cigarette Test | Specimen 1 | Specimen 2 |
| Progressive smouldering or flaming observed | No | No |
| Performance | Pass | Pass |
| Flaming Ignition Source Test | | |
| Progressive smouldering or flaming observed | No | No |
| Performance | Pass | Pass |

Cigarette Specification (Source 0)

Dimensions (mm) 69
Mass (g) 0.90
Smouldering Rate (secs) 647





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Note

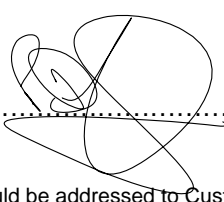
The test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

Comment

In our opinion, based on the test carried out on the sample supplied; the results indicate the sample meets the requirements according to IMO 2010 FTP Code, Part 8.

An estimation of uncertainty of measurement has not been taken into account when making a judgement to any pass/fail criteria.

Reported by:.....  B Marsden (Mrs), Fire Technician

Countersigned by:.....  P Doherty, Operational Head

Enquiries concerning this report should be addressed to Customer Services.

