



**FIRE
TECHNOLOGY
SERVICES**

Confidential Report

Our Ref: 27/03694E/10/15

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

**Fire Technology Services
A division of BTTG T & C Ltd
Wira House, West Park Ring Road,
Leeds, LS16 6QL**

Tel No: +44 (0)113 2591999



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FIRE
TECHNOLOGY
SERVICES

BTTG Testing & Certification Ltd.
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England

Tel: +44 (0)113 259 1999
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Email: CSLeeds@bttg.co.uk

27 October 2015

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Client: Svensson
AB Ludvig Svensson
Bangatan 8
SE – 511 82 Kinna
Sweden

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

Clients Order Ref: ---

Date of Receipt: 19 October 2015

Description of Sample: One sample of fabric, referenced: **Balance**.

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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Svensson

**FTP CODE 2010:Part 8 Test for Upholstered Furniture
Product Description Sheet**

Company Name	Svensson
Type of Furniture, e.g., Seat, Sofa, Office Chair, etc;.	Upholstery Fabric
Name and/or Identification of the Product Tested	Balance
Materials of the Product and its Composite Ratio (i)	82% Wool, 6% Polyamide, 12% Ramie
Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and	Warp: 69 th/inch Weft: 36 th/inch
Yarn Number Count	Warp: 32/2 Weft: 32/2 & 4/2
Mass per Unit Area (g/mm ²)	550
Colour and Tone (iii)	Green / Black
Method and Quantity of Fire Retardant Treatment	N/A

- (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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Svensson

FIRE TESTS ACCORDING to IMO FTP Code 2010:Part 8 Test for Upholstered Furniture

Date of Test: 26/10/2015

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 23°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 $22\text{Kg}/\text{m}^3$.

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.)	---	19	---	19
Extinction Time (Flame) (secs.)	N/A	1	N/A	1
Extinction Time (Smoke) (secs.)	33	N/A	33	N/A
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) 69.00 x 8.00
Mass (g) 0.93
Smouldering Rate (secs) 10mins 50 secs





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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.

Uncertainty of measurement has not been taken into account when presenting the test result. The relevant uncertainty value is included as an annex which forms an integral part of the report.

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

Enquiries concerning this report should be addressed to Customer Services.





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Uncertainty Budget - Annex

The overall uncertainty budget IMO FTP Code 2010:Part 8 is as follows:-

Measurements: $\pm 1\text{mm}$
Timings: ± 2 seconds

