



**FIRE
TECHNOLOGY
SERVICES**

Confidential Report

Our Ref: 27/03869C/04/16

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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BTTG Testing & Certification Ltd.
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4 May 2016

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Client: Gudbrandsdalens Uldvarefabrik AS
Serviceboks
N-2626 Lillehammer
Norway

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

Clients Order Ref: ---

Date of Receipt: 12 April 2016

Description of Sample: One sample of material, referenced: **8907 York**.

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 AS

Product Description

Company Name	Gudbrandsdalens Uldvarefabrick AS
Type of Furniture, e.g., Seat, Sofa, Office Chair, etc.;	Seats, sofas and office chairs
Name and/or Identification of the Product Tested	8907 York
Materials of the Product and its Composite Ratio (i)	43% Wool / 45% Cotton / 7% Viscose / 5% Polyamide
Composition of Weave (ii)	Jacquard Twill
Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and	Warp: 19,2 / cm Weft: 8,6 / cm
Yarn Number Count	Nm 36/2, Nm 3, Nm 6
Thickness (mm)	1,5 mm
Mass per Unit Area (g/mm ²)	375
Colour and Tone (iii)	Colour range of various 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: 04/05/2016

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 20°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.)	---	10	---	12
Extinction Time (Flame) (secs.)	---	21	---	22
Extinction Time (Smoke) (secs.)	1800	27	1838	30
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) 0.94
Smouldering Rate (secs) 659





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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:..... *B Marsden* B Marsden (Mrs), Fire Technician

Countersigned by:..... *P Doherty* 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: ± 1 mm
Timings: ± 2 seconds

