FIRE
TECHNOLOGY
SERVICES

Confidential Report

Our Ref: 27/03869D/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

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FIRE TECHNOLOGY SERVICES

BTTG Testing & Certification Ltd.
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Email:CSLeeds@bttg.co.uk

4 May 2016

Our Ref: 27/03869D/04/16
Your Ref:

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: **8913 Cheltenham**.
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	8913 Cheltenham
Materials of the Product and its Composite Ratio (i)	92% Wool / 8% 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: 19,2 / cm
Yarn Number Count	Nm 36/2, Nm 14/2
Thickness (mm)	1,0 mm
Mass per Unit Area (g/mm^2)	350
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 ±5°C temperature and 50 ± 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 22Kg/m^3.

Requirements

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

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Results

	Specimen 1		Specimen 2	
Ignition Source	**0**	**1**	**0**	**1**
Ignition Time (secs.)	---	10	---	11
Extinction Time (Flame) (secs.)	---	21	---	22
Extinction Time (Smoke) (secs.)	1840	26	2265	27
Time of Cover Split (secs.)	DNS	DNS	DNS	DNS

Observations				
Cigarette Did Not Propagate	☐	☐	☐	☐
Manually Extinguished	☐	☐	☐	☐
Burnt Through Thickness of Foam	☐	☐	☐	☐
Material Did Not Split	☒	☒	☒	☒
Burnt to Edge of Specimen	☐	☐	☐	☐
Escalating Combustion	☐	☐	☐	☐
Escalating Smouldering	☐	☐	☐	☐
Did Not Observe Time of Event	☐	☐	☐	☐

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

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.

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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 (Mrs), Fire Technician

Countersigned 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:	±1mm
Timings:	±2 seconds