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Date: 27 August 2020  
Our Ref: 23/57680-1  
Your Ref: -  
Page: 1 of 6

Client: Ludvig Svensson AB  
511 82 Kinna  
Sweden

Job Title: Fire test on one sample of fabric

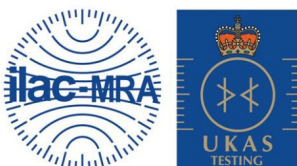
Client's Order No: -

Date of Receipt: 20 August 2020  
Date of Test Start: 26 August 2020

Description of Sample(s): One sample of fabric identified as follows was received for testing:

Hello

Work Requested: We were asked to make the following test:  
IMO FTP Code 2010 Part 8 (Upholstered Furniture)



1066

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TESTING • CERTIFICATION • AUDITING

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**Ludvig Svensson AB**

Sample was identified as follows:

Hello

### Product Description

Company Name	Ludvig Svensson AB
<b>FABRIC</b>	
Type of Furniture, e.g., Seat, Sofa, Office Chair, etc;.	Not supplied by client
Name and/or Identification of the Product Tested	Hello
Materials of the Product and its Composite Ratio (i)	100% Trevira CS
Composition of Weave (ii)	Plain
Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and	Warp: 46, Weft: 41
Yarn Number Count	Nm 27/2
Thickness (mm)	Not supplied by client
Mass per Unit Area (g/mm <sup>2</sup> )	280
Colour and Tone (iii)	Grey
Method and Quantity of Fire Retardant Treatment	Permanently flame retardant fibre
<b>FILLINGS (supplied by BTTG)</b>	
Material (Name of the Manufacturer, Type Designation);	Carpenters, combustion modified high resilience, polyurethane foam
Weight per Unit Volume (kg/m <sup>3</sup> )	36
Method and Quantity of Fire Retardant Treatment	CMHR Method not known



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## Testing to IMO FTP Code 2010 : Part 8 – Test for Upholstered Furniture

### Conditioning

Immediately prior to testing the samples was placed in indoor ambient conditions for 72 hours and then conditioned in a standard atmosphere of  $23\pm 2^{\circ}\text{C}$  temperature and  $50\pm 5\%$  relative humidity for at least 16 hours.

The samples were tested in a room of volume  $25\text{m}^3$  and  $20^{\circ}\text{C}$ .

### Procedure

The samples 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 sample was tested over combustion modified polyurethane foam with a density of approximately  $36\text{ kg/m}^3$ .

### Requirements

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

### Cigarette Specification (Source 0)

Dimensions (mm)	68mm x 8mm
Mass (g)	0.91
Smouldering Rate (mins/secs)	10.31



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## RESULTS

Sample Ref: Hello

### Cigarette Test – Source 0

Specimen No.	1	2
Extinction Time (smouldering) (min)	20	20
Time of cover split	DNO	DNO
Melting (Yes/No)	No	No
Dripping (Yes/No)	No	No
Charring (Yes/No)	Yes	Yes
Progressive Smouldering (Yes/No)	No	No
Pass/Fail	PASS	PASS

Result of the Cigarette Test: PASS

### Propane Flame Test – Source 1

Specimen No.	1	2
Time of Ignition (s)	3	3
Extinction time of flames after removal of burner (s)	1	1
Time to Cover Split (s)	5	5
Melting (Yes/No)	Yes	Yes
Dripping (Yes/No)	No	No
Charring (Yes/No)	Yes	Yes
Progressive smouldering (Yes/No)	No	No
Pass/Fail	PASS	PASS

Result of the Flame Test: PASS

### Acronym

DNP – Did not propagate  
ME – Manually extinguished  
DNS – Material did not split  
BTE – Burnt to extremities

EC – Escalating combustion  
ES – Escalating smouldering  
DNO – Did not observe time of event



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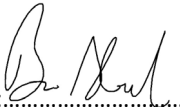
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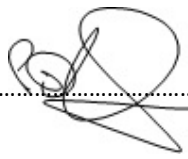
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### Comment

In our opinion, based on the test carried out on the sample supplied; the results indicate that the sample meets the requirements according to IMO FTP Code 2010, 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 Bland  
Laboratory Technician

Countersigned By:   
P Doherty  
Manager

Enquiries concerning this report should be addressed to Customer Services



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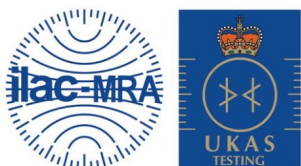
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## Uncertainty Budget – Annex

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

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



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