



**FIRE
TECHNOLOGY
SERVICES**

Confidential Report

Our Ref: 27/02809J/05/13

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

**Fire Technology Services
A division of BTTG T & C Ltd
Wira House, West Park Ring Road,
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26 June 2013

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Client: Eco-Sol Ltd
Cardiff House
Cardiff Road
Barry
Vale of Glamorgan
CF63 2AW

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

Clients Order Ref: ---

Date of Receipt: 10 May 2013

Description of Sample: One sample of fabric, referenced: **Linen 440g/m²**.

Work Requested: Fire Technology Services were requested to carry out a fire test on the sample supplied to IMO FTP Code 2010:Part 9.





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Eco-Sol Ltd

FIRE TESTS ACCORDING to IMO FTP Code 2010:Part 9 Test for Bedding Components

Date of Test: 18/06/13

Cleaning Procedure

The sample was subjected to 3 accelerated dry cleaning cycles as specified in the IMO FTP Code 2010:Part 7 Appendix 3. The sample was submitted to an external dry cleaning company.

Conditioning

The sample was conditioned for 72 hours in the standard atmosphere for conditioning textiles of $20 \pm 5^\circ\text{C}$ and $50 \pm 5\%$ R.H.

Procedure

The sample was tested in accordance with IMO FTP Code 2010:Part 9. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard.

Requirements

Smouldering Ignition Sources

Progressive smouldering is considered to have occurred if any of the following occurs:-

- Smoulders more than 1 hour
- Unsafe escalating combustion
- Test assembly consumed
- Smoulders through thickness or to extremities
- Charring more than 25 mm from edge of cotton wool
- Occurrence of flames by a smouldering ignition source





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Requirements (Continued)

Flame as Ignition Sources

Ignition is considered to have occurred if any of the following occurs:-

- Flaming for more than 150 sec.
- Unsafe escalating combustion
- Test specimen burns more than 66% consumed within 150s after removal of igniting flame
- Smoulders or burns through thickness or to extremities

Results

The test results relate to the ignitability of the combination of materials under the particular condition of test. They are not intended as a means of assessing the full potential fire hazard of the mattress, mattress pad or upholstered bed base in use.

Smouldering criteria	Yes or No	
	Specimen 1	Specimen2
Smoulders more than 1 hour	No	No
Unsafe escalating combustion	No	No
Test assembly consumed	Yes	Yes
Smoulders through thickness or to extremities	No	No
Charring more than 25 mm from cotton wool	No	No
Performance Ignition / non ignition (NI/I)	NI	NI
Flaming criteria		
Occurrence of flames	No	No
Flaming more than 150sec	No	No
Unsafe escalating combustion	No	No
More than 66% of specimen consumed	No	No
Burnt through full thickness or to extremities	No	No
Performance Ignition / non ignition (NI/I)	NI	NI

A NI designation indicates that the sample met the performance requirements.





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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 9.

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

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

Enquiries concerning this report should be addressed to Customer Services.

