



**FIRE
TECHNOLOGY
SERVICES**

Confidential Report

Our Ref: 27/03694F/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**

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FIRE
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BTTG Testing & Certification Ltd.
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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 BS EN 1021: Parts 1&2: 2014.





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Svensson

FIRE TESTS ACCORDING TO BS EN 1021-1:2014 **Assessment of the ignitability of upholstered furniture. Part I. Ignition Source : Smouldering cigarette**

Date of Test: 26/10/2015

Conditioning

The sample was water-soaked and dried in accordance with Annex D of this standard. After drying the sample was conditioned for at least 16 hours at a temperature of $23\pm 2^{\circ}\text{C}$ and relative humidity of $50\pm 5\%$.

The sample was tested in a room of volume 25m^3 and 23°C .

Procedure

The test was carried out in accordance with BS EN 1021-1:2014. 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 $22\text{Kg}/\text{m}^3$.

Tests were made using ignition source 0.

Requirements

The specimens shall not:-

Smouldering Criteria

- a) display escalating combustion requiring active extinction.
- b) smoulder or burn until it is essentially consumed within the test duration.
- c) smoulder or burn to the extremities of the specimen, or through the full thickness, within the duration of the test.
- d) smoulder for more than one hour.
- e) on final examination, show evidence of progressive smouldering.

Flaming Criteria

- a) show evidence of flaming initiated by a smouldering source.





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Results

| | Cigarette | | | Comments |
|---|-----------|----|----------------|----------|
| | 1 | 2 | 3 ¹ | |
| Smouldering Criteria (Yes/No) | | | | |
| Unsafe escalating combustion | No | No | -- | |
| Test assembly consumed | No | No | -- | |
| Smoulders to extremities | No | No | -- | |
| Smoulders through thickness | No | No | -- | |
| Smoulders more than 1 hour | No | No | -- | |
| In final examination, presence of progressive smouldering | No | No | -- | |
| Ignitability Performance (Yes/No) | | | | |
| Occurrence of flames | No | No | -- | |
| Ignition / Non Ignition (I/NI) | NI | NI | -- | |

¹ Results for cigarette 3, only if applicable.

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.

Comments

A NI designation indicates that the sample meets the performance requirements of BS EN 1021-1.





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FIRE TESTS ACCORDING TO BS EN 1021-2:2014

Assessment of the ignitability of upholstered furniture. Part 2. Ignition Source : Match flame equivalent.

Date of Test: 26/10/2015

Conditioning

The sample was water-soaked and dried in accordance with Annex D of this standard. After drying the sample was conditioned for at least 16 hours at a temperature of $23\pm 2^{\circ}\text{C}$ and relative humidity of $50\pm 5\%$.

The sample was tested in a room of volume 25m^3 and 23°C .

Procedure

The test was carried out in accordance with BS EN 1021-2:2014. 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 $22\text{Kg}/\text{m}^3$.

Tests were made using ignition source 1.

Requirements

The specimens shall not:-

Smouldering Criteria

- a) display escalating combustion requiring active extinction.
- b) smoulders until it is essentially consumed within the test duration.
- c) smoulder to the extremities of the specimen, or through the full thickness, within the duration of the test.
- d) smoulder for more than one hour.
- e) show evidence of charring, other than discolouration, for more than 100mm in any direction apart from the nearest part of the original position of the source.

Flaming Criteria

- a) display escalating combustion requiring active extinction.
- b) burns until it is essentially consumed within the test duration.
- c) burns to the extremities of the specimen, or through the full thickness, within the duration of the test.
- d) exhibit any flaming for more than 120 seconds after removal of the burner tube.



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Results

Table with 3 columns: Criteria, Match Flame Equivalent (1, 2), and Comments. Rows include Smouldering Criteria and Ignitability Performance.

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.

Comments

A NI designation indicates that the sample meets the performance requirements of BS EN 1021-2.

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: [Signature] 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 for BS EN 1021:Part 1 and 2:2014 is as follows:-

Timings: ± 2 seconds.

