



# Confidential Report

**Our Ref: 23/61562C1/11/23**





Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.  
Telephone: +44 (0) 113 259 1999  
Email: [onestopshop@bttg.co.uk](mailto:onestopshop@bttg.co.uk)  
Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 24 November 2023

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**Client:**

**Thesign AG**

thesign SIAG Heimtextillen AG  
Neuseeland 32  
CH-9404 Rorschacherberg  
Switzerland

**Job Title:**

Fire Test on One Fabric Sample

**Clients Order Ref:**

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**Date of Receipt:**

14 November 2023

**Date Test Started:**

21 November 2023

**Description of Sample:**

One sample of fabric, which was referenced by the client as;

Moss - 30735

**Work Requested:**

We were asked to make the following fire test:

BS 5852: Clause 11:2006 (2011)

- \* subcontracted test, UKAS accredited
- \*\* subcontracted test, EN ISO/IEC 17025 accredited
- \*\*\* not UKAS accredited

Note: This report relates only to the items tested.



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## Testing BS 5852: Clause 11: 2006 (2011) Assessment of the ignitability of upholstered seating by Smouldering and Flaming sources – Source 5 (Crib 5)

### Pre-Treatment

The material received no pre-treatment as the fabric is stated not to be FR treated.

### Conditioning

The sample was conditioned in the environments specified in Clause 10 of BS 5852: 2006 (2011).

### Testing

The material was tested according to BS 5852:2006 (2011) Methods of test for the ignitability of upholstered composites for seating by flaming sources using Source 5 (Crib 5).

The sample was tested at 18°C and 49% relative humidity (R.H.).

The sample was tested over combustion modified polyurethane foam with a density of approximately 34-36kg/m<sup>3</sup>.



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## Results

The following test results relate only to the ignitability of the combination of upholstery composites under the particular conditions of test stated; they are not intended as a means of assessing the full potential fire hazard of the materials or products in use.

	Specimen 1	Specimen 2
Time of Ignition (mins/secs)	0.15	0.14
Time of Flame Extinction (mins/secs)	7.12	7.32
Time of Smoke Extinction (mins/secs)	11.39	42.12
Time of cover split (mins/secs)	DNO	DNO
<b>Extent of damage (mm) - Seat</b>		
Width	205	232
Length	117	131
Depth	36	43
<b>Extent of damage (mm) - Back</b>		
Width	235	258
Depth	33	44
Melting	No	No
Dripping	No	No
Charring	Yes	Yes
Comments and Observations	DNO	DNO
<b>Specimen Result (Ignition or Non-ignition)</b>	<b>Non-Ignition</b>	<b>Non-Ignition</b>

## Acronyms

ME – Manually extinguished  
DNO – Did not observe time of events

EC – Escalating combustion  
BTT – Burnt through thickness of foam

DNS – Material did not split  
BTE – Burnt to extremities





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## Comment

The results indicate 'Non-Ignition' of the materials and the test is designated NI/5 (ie. Pass).

Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

See our decision rules Policy (<https://www.bttg.co.uk/about-us/decision-rules-policy/>) for further information.

## Uncertainty Budget

Measurements:  $\pm 2$  mm

Timings:  $\pm 2$  seconds

Reported by:..... R Greasley, Laboratory Technician

Countersigned by:..... B Bland, Technical Customer Service Officer

Enquiries concerning this report should be addressed to Customer Services.



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