



# Confidential Report

**Our Ref: 23/61017B2/05/23**





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: 17 May 2023

Our Ref: 23/61017B2/05/23

Your Ref: ---

Page: 1 of 4

**Client:** Zimmer + Rohde GmbH

Zimmersmuhlenweg 14-18  
61440 Oberursel  
Frankfurt  
Germany

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

**Clients Order Ref:** --

**Date of Receipt:** 15 May 2023

**Date Test Started:** 22 May 2023

**Description of Sample:** One sample of fabric, which was referenced by the client as;  
15500, stated to be base 100% CO, pile 100% SE

**Work Requested:** We were asked to make the following fire test:  
BS EN 1021:Part 1:2014 – Ignitability of Upholstered Furniture

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

Note: This report relates only to the items tested.



1066

Shirley® Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.  
A company registered in England & Wales with company number 04669651. VAT Number GB 816764800.  
BTTG® and Shirley® are trade names of Shirley Technologies Ltd.  
The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.  
Our laboratories are accredited to EN ISO/IEC 17025.

Copyright © 2023 Shirley Technologies Limited. All rights reserved.



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: 17 May 2023

Our Ref: 23/61017B2/05/23

Your Ref: ---

Page: 2 of 4

**Client: Zimmer + Rohde GmbH**

## **FIRE TESTS ACCORDING TO BS EN 1021-1:2014**

**Assessment of the ignitability of upholstered furniture. Part 1. Ignition Source 1: Smouldering cigarette.**

### **Pre-Treatment**

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

### **Conditioning**

The materials for testing to Source 0 and 1 were conditioned for a minimum of 24 hours and tested in the environments specified in Clause 7 of BS EN 1021-1 & 2:2014.

The sample was tested in a room of volume 25m<sup>3</sup> and 19°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 sample was tested over non-fire retardant polyurethane foam with a density of approximately 20-22 kg/m<sup>3</sup>.

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.



1066

Shirley® Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.  
A company registered in England & Wales with company number 04669651. VAT Number GB 816764800.

BTTG® and Shirley® are trade names of Shirley Technologies Ltd.

The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.

Our laboratories are accredited to EN ISO/IEC 17025.

Copyright © 2023 Shirley Technologies Limited. All rights reserved.



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: 17 May 2023

Our Ref: 23/61017B2/05/23

Your Ref: ---

Page: 3 of 4

**Client:** Zimmer + Rohde GmbH

**Requirements (Continued)**

Flaming Criteria

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

**Results**

Smouldering criteria	Specimen No.		
	1	2	3 <sup>1</sup>
Unsafe escalating combustion	No	No	---
Testing assembly consumed	No	No	---
Smoulders to extremities/full thickness	No	No	---
Smoulders more than 1 hour	No	No	---
In final examination, presence of progressive smouldering	No	No	---

Flaming criteria	1	2	3 <sup>1</sup>
Occurrence of flames	No	No	---
<b>Specimen Result</b> Ignition (I) / Non Ignition (NI)	<b>NI</b>	<b>NI</b>	---

**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.





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: 17 May 2023

Our Ref: 23/61017B2/05/23

Your Ref: ---

Page: 4 of 4

**Client:** Zimmer + Rohde GmbH

## Comment

An I designation indicates that the sample meets the performance requirements of BS EN 1021-1.

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

The overall uncertainty budget for BS EN 1021: Part 1:2014 is as follows:-

Timings:  $\pm 2$  seconds.  
Measurements:  $\pm 2$ mm.

Reported by:  B Bland, Technical Customer Services Officer

Countersigned by:  P Doherty, Manager

Enquiries concerning this report should be addressed to Customer Services.



1066

Shirley® Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.  
A company registered in England & Wales with company number 04669651. VAT Number GB 816764800.  
BTTG® and Shirley® are trade names of Shirley Technologies Ltd.  
The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.  
Our laboratories are accredited to EN ISO/IEC 17025.

Copyright © 2023 Shirley Technologies Limited. All rights reserved.