

## TEST CERTIFICATE

### No. F213416/8

Testing to BS 5852 : 2006, Methods of Test for the Assessment of the Ignitability of Upholstered Seating by Smouldering and Flaming Ignition Sources

#### SAMPLE INFORMATION

Client **Zimmer + Rohde UK Ltd.**  
**15 Design Centre, Chelsea Harbour, London, SW10 0XE**

Sample type **Fabric**

Details supplied by the client **10726, Tivoli FR, 100% PES,**

Dimensions **300cm by 148cm (Full width)**

Date received **8/10/2021**

Pre-treatment **None - the fabric was stated to be inherently flame retardant**

Conditioning **BS 5852 : 2006, Clause 10.**

#### TESTING

Following the pre-treatment described above, the material was conditioned and tested according to **BS 5852 : 2006, Methods of Test for the Assessment of the Ignitability of Upholstered Seating by Smouldering and Flaming Ignition Sources, Clause 11, using Ignition Source 5.**

The following results relate only to the ignitability of the combinations of upholstery composites (Clause 11) under the particular condition of test stated; they are not intended as a means of assessing the full potential fire hazard of the item in use.

#### COMBINATION OF MATERIALS

The sample was tested over combustion modified foam with a density of 36 kg/m<sup>3</sup>, Carpenter RX36125.

#### RESULTS

Specimen number	1	2
Duration of flaming of ignition source (min)	2'47	2'53
Duration of flames (min)	3'58	4'11
Duration of smoke (min)	<10'00	<10'00
Extent of damage of horizontal component		
- width (mm)	16	145
- length (mm)	97	96
- depth (mm)	61	54
Extent of damage of vertical component		
- width (mm)	94	84
- depth (mm)	42	46
Progressive smouldering >100mm from ignition source	No	No
<b>Result</b>	<b>Pass</b>	<b>Pass</b>

#### CONCLUSION

Since both specimens showed non-ignition, the combination of materials is designated as **BS 5852 : 2006, Rating NI5. This Rating represents a Pass for Crib 5.**



Mr J Firth  
**Technical Manager**

U or UU indicates a test result within our estimate of uncertainty of the specification limit - see the report appendix for more information.  
#=Subcontracted to a UKAS accredited Test House. The results on this test report only relate to the specimens tested above.

**TFT**  
(Ilkley) Ltd.

**The Sidings Business Park, SKIPTON, North Yorkshire, BD23 1TB**  
**Phone or Fax 01756 792525**

Office: 30 Alexandra Crescent, ILKLEY, West Yorkshire, LS29 9ER, Phone or Fax 01943 603459

Reg. No. 3168606, VAT No. 659 9604 77



END OF REPORT

U or UU indicates a test result within our estimate of uncertainty of the specification limit - see the report appendix for more information.  
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## APPENDIX TO TEST CERTIFICATE

**Job number: F213416/8**

### OVERVIEW

This appendix is to be read in conjunction with the related test certificate. The test certificate gives the details of the test that has been completed and client information.

This appendix shows the decision rule and measurement uncertainty for this job number. If allowing for the measurement uncertainty affects conformity to a specification limit then a modified statement of conformity is reported in this appendix. This indicates the confidence level in the reported result. The decision rule used to make this assessment is also reported.

This method of reporting is a requirement of our accreditation against 17025:2017. This appendix is written using the guidelines shown in the ILAC document, ILAC-G8:09/2019 Guidelines on Decision Rules and Statements of Conformity. This document can be found at [https://ilac.org/latest\\_ilac\\_news/revised-ilac-g8-published/](https://ilac.org/latest_ilac_news/revised-ilac-g8-published/).

The conformity statements are based on the examples found in the UKAS document LAB 48 Decision Rules and Statements of Conformity.

### DECISION RULES

All uncertainties are estimated with a coverage factor of  $k = 2$  which equates to a confidence level of approximately 95%.

Some tests have more than one decision rule, any of which may apply depending on the outcome of the test.

#### Crib 5 test

The pass criteria for these tests is flaming of less than 10 minutes.

Our estimate of measurement uncertainty for this test is  $\pm 2$  seconds. This means that a result within 2 seconds of the 10 minute boundary will be reported as uncertain.

The pass criteria for these tests is smouldering of less than 60 minutes.

Our estimate of measurement uncertainty for this test is  $\pm 2$  seconds. This means that a result within 2 seconds of the 60 minutes boundary will be reported as uncertain.

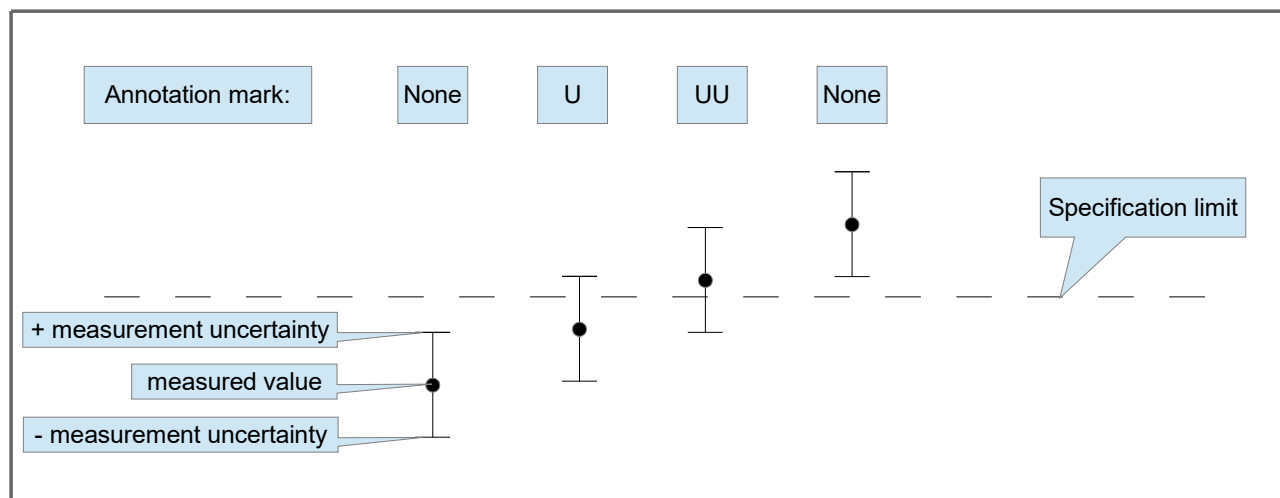
## RESULT MODIFIED BY MEASUREMENT UNCERTAINTY

The conclusion statement on the test report is modified as follows:

- The reported conclusion has no annotation mark  
 The test result is below the specification limit shown in the test standard even with allowance for the measurement uncertainty. The result does comply with the specification based on the stated level of confidence.
- The reported conclusion is annotated with “U”  
 The test result is below the specification limit but by a margin less than the measurement uncertainty. It is therefore not possible to state compliance based on the stated level of confidence.
- The reported conclusion is annotated with “UU”  
 The test result is above the specification limit but by a margin less than the measurement uncertainty. It is therefore not possible to state non-compliance based on the stated level of confidence.
- The reported conclusion has no annotation mark  
 The test result is above the specification limit even with allowance for the measurement uncertainty. The result does not comply with the specification based on the stated level of confidence.

Each of these statements is illustrated on the following diagram.

## ILLUSTRATION OF POSSIBLE TEST RESULTS



## INTERPRETING THE RESULTS

Using the annotation marks described above, the following confidence levels apply to the illustrated result:

- The reported conclusion has no annotation mark  
The test is reported as a Pass. The risk of this representing a false Pass result is less than 2.5%.
- The reported conclusion is annotated with “U”  
The test is reported as a Conditional Pass. The risk of accepting this result as a false Pass result is up to 50%.
- The reported conclusion is annotated with “UU”  
The test is reported as a Conditional Fail. The risk of accepting this result as a false Fail result is up to 50%.
- The reported conclusion has no annotation mark  
The test is reported as a fail. The risk of this representing a false Fail result is less than 2.5%.

If you wish to accept the higher level of risk of a false Pass classification, results marked with a single annotation mark “U” could be considered to be a Pass.

If you wish to accept the higher level of risk of a false Fail classification, results marked with an annotation mark “UU” could be considered to be a Fail.