

Customer Details: KAB Seating  
Stone Circle Road  
Round Spinney  
Northampton  
Northamptonshire  
NN3 8RS

For the attention of: Phill Britton

## TECHNICAL REPORT

Subject: Flammability testing of upholstery composite (ref: S. African leather over Outlast cooling fabric layer over CHMR foam) to BS 5852: 2006, section 11, ignition source 5  
Your Ref: PO526661-1  
Our Ref: FUR0208172  
Date: 9th October 2012  
Date Samples Received: Outlast cooling fabric and CMHR foam arrived 19th September 2012  
S. African leather arrived 3rd October 2012

### Conditions of Issue:

This report may be forwarded to other parties provided that it is not changed in any way. It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

Tests marked † fall outside the UKAS Accreditation Schedule for SATRA. All interpretations of results of such tests and the comments based upon them are outside the scope of UKAS accreditation and are based on current SATRA knowledge.

**A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.**

Report signed by: Andrew Munns  
Position: Furniture Technologist  
Department: Furniture Department

**BS 5852: 2006, 'Methods Of Test For Assessment Of The Ignitability Of Upholstered Seating By Smouldering And Flaming Sources', Section 11, Methods of test for the ignitability of upholstery composites**

## IGNITION SOURCE 5

### Sample Identification

The materials were described by the customer as:

Cover: S. African leather

Filling: Outlast cooling fabric layer over CMHR foam

### Test result: NON-IGNITION

*The above test result relates only to the ignitability of upholstery composites (BS 5852: 2006 section 11) under the particular conditions of test; it is not intended as a means of assessing the full potential fire hazard of the materials or products in use.*

### Conditioning

The leather cover was not subjected to the water soaking procedure according to BS 5852: 2006 Annex E. It was conditioned for 5 days in an atmosphere of  $20 \pm 5^{\circ}\text{C}$  and  $50 \pm 20\%$ .

The Outlast cooling fabric was subjected to the water soaking procedure according to BS 5852: 2006 Annex E and dried by hanging vertically. It was then conditioned for 15 days in an atmosphere of  $20 \pm 5^{\circ}\text{C}$  and  $50 \pm 20\%$ .

The CMHR foam was conditioned for 15 days at  $20 \pm 5^{\circ}\text{C}$  and  $50 \pm 20\%$  rh.

### Procedure

The test was carried out as described in BS 5852: 2006 section 11 using ignition source 5 and the large test rig.

### Details of observations

*Note: All times given below are from the ignition of the crib.*

#### First application:

Flames self extinguished after 7 minutes 46 seconds (limit of 10 minutes allowed) and smouldering ceased after 17 minutes 47 seconds (limit of 60 minutes allowed). On final examination the smouldering ignition damage did not extend beyond 100 mm.

#### Second application:

Flames self extinguished after 9 minutes 4 seconds (limit of 10 minutes allowed) and smouldering ceased after 22 minutes 15 seconds (limit of 60 minutes allowed). On final examination the smouldering ignition damage did not extend beyond 100 mm.

Testing by: Thomas Notley on 9th October 2012

KAB Seating

FUR0208172

Date: 9th October 2012

Signed:

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2. **PRICES**  
Prices are based on current material and production costs, exchange rates, duty and freight and are subject to change without notice.
3. **DELIVERY ESTIMATES**  
Delivery estimates are made in good faith and date from receipt of a written order and full information to enable us to proceed. While SATRA or its subsidiaries (hereafter referred to as "SATRA") make every effort to fulfil them, such estimates are subject to unforeseen events and if not maintained, cannot give rise to any claim. Offers "ex stock" are subject to prior sale.
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Cancellation of orders for goods, services, training or consultancy is only acceptable by prior agreement of SATRA and a charge will normally be made.
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Claims for errors, shortages etc should be notified within 10 days of date of receipt. In the event of goods damaged in transit, packing materials should be retained for examination; otherwise no liability can be accepted.
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Payment terms are net 21 days from date of invoice. Failure to comply with the terms of payment may result in delayed delivery of goods and services and a review of the Customer's credit account. Should the customer become subject to an administration order, or becomes bankrupt or goes into liquidation, SATRA has a right to cancel any contract and discontinue any work. SATRA reserves the right to adjust US Dollar and Euro sales price where customer exceeds credit terms and where the exchange rate has moved more than 10% since invoicing.
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All goods remain the property of SATRA until paid in full. Under no circumstances will a customer's purchase order override our Retention of Title clause. In the case of software, the ownership of the software remains with SATRA. Payment of invoices in full will entitle the customer to use the software under licence until (a) they cease to be a member of SATRA or (b) they cease trading. In both instances, the licence shall then revert to SATRA.
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All goods manufactured by SATRA are guaranteed both as regards material and workmanship. Any part returned carriage paid, within twelve months from date of supply and found defective, will be repaired or replaced at SATRA's option free of charge. SATRA admits no liability for loss, damage or delay consequent on any defect in any goods supplied by SATRA.
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Results given in test reports refer only to samples submitted for analysis and tested by SATRA. A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in a test report.
10. **TEST SAMPLES**  
Unless otherwise agreed in advance, test samples will be disposed of 6 weeks after the date of the final report. If required, samples can be returned at the Customer's expense.
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Every effort is made to ensure accuracy in description, drawings and other information in correspondence, catalogues, etc but no warranty is given in this respect and SATRA shall not be liable for any error therein. SATRA carries out all tests and/or advises only on the basis that the same are carried out, made or given without any responsibility whether for negligence or otherwise. SATRA and its servants or agents will not be liable for any damage or loss direct or indirect of whatsoever kind, whether or not the same results directly or indirectly from negligence on the part of SATRA or its servants or agents.
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Unless specifically excluded in the terms of an individual contract between SATRA and its Customer, the following shall apply to all reports, advice, drawings, photographs, specifications or data:
  - i. The above shall not be disclosed to third parties or used in litigation without the consent of SATRA.
  - ii. Where SATRA has given consent to disclosure, the Customer shall draw the attention of the third party to these terms of business and the basis on which SATRA undertakes test, reporting and advising. The Customer shall indemnify SATRA for any failure to do so.
  - iii. The above items are submitted to the Customer as confidential documents. Confidentiality shall continue to apply after completion of the business, but shall cease to apply to information or knowledge which may come into the public domain.
13. **CONSTRUCTION AND ARBITRATION**  
The laws of England shall govern all contracts and the parties submit to exclusive jurisdiction of the courts of England, unless otherwise agreed.

Issue Date: 1st October 2009

## GENERAL CONDITIONS AND INFORMATION CONCERNING FURNITURE TESTING

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1. SATRA's General Terms and Conditions apply to both test reports and certificates.
2. Tested products/materials will be kept at SATRA for a limited time and then either returned to clients (at their cost) or will be destroyed.
3. Test Certificates can be provided to supplement test reports. Please request these and quote the test report number and the product/material reference.
4. Test Certificates relate to test reports and evaluations carrying the same SATRA CQ number and no others.
5. Further information on the test methods, specifications used, test results and evaluations are given in SATRA test reports, or are available upon request.
6. Any wording used to promote products as a result of SATRA test reports and/or certificates must be submitted to SATRA for approval, giving sufficient time to allow for clearance in writing. Ask for Policy Document C5130/12.
7. Tests carried out to demonstrate the ability of the product or material to perform satisfactorily in its intended environment do not ensure that failure will not eventually occur as a result of habitual misuse or after a long period of service.
8. Flammability test results relate only to ignitability of the combination of materials under the particular conditions of tests; they are not intended as a means of assessing the full potential fire hazard of the materials in use.
9. Flammability test results can only be applied to the batch of materials submitted for test. It is recommended by many Fire Officers and Trading Standards Officers that test results and certificates are renewed every six months through re-tests. More frequent testing of batches (such as once per month or each batch) may be needed to show due diligence.
10. SATRA Furniture – Fitness for Purpose Guidelines and SATRA Test Methods may be used where appropriate. Such occasions may include instances where there is no European or International standard that is appropriate. SATRA Guidelines and Test Methods reflect the current state of knowledge and are constantly being reviewed.
11. Safety critical items such as bunk beds, mirrors, glass furniture, motion furniture, nursery furniture, beds, electrical items and upholstery may need to comply with specific regulations. Clients are advised to check for conformance before supplying products.
12. Where due diligence is required, clients should be able to demonstrate, statistically, that the required performance level is consistently present throughout each batch. Thus test data is needed and this should be based upon sampling each batch in accordance with statistical sampling such as ISO 2859-1.
13. Reports must not be altered. Reports may be re-issued by SATRA (certain conditions apply) with different references.
14. The uncertainty of the results in this report is based on a standard uncertainty multiplied by a coverage factor  $k=2$ , which provides for a confidence level of approximately 95%. In accordance with the SATRA Quality Manual, information on uncertainty will be included in test reports when it is deemed relevant to the validity or application of the test results, or when a customer requests such information, or when the uncertainty affects compliance of the item tested to a particular specification.

Furn  
June 2007