



SATRA Technology Centre Ltd
Wyndham Way, Telford Way, Kettering,
Northamptonshire, NN16 8SD United Kingdom
Tel: +44 (0) 1536 410000
Fax +44 (0) 1536 410626
email: info@satra.co.uk
www.satra.co.uk

Customer details: Pineapple Contracts
Murray Road
ORPINGTON
Kent
BR5 3QY

SATRA reference: FUR0224336 /1417

Your reference: NS0904

Date of report: 29 May 2014

For the attention of: Neill Smith

Sample received: 24 April 2014

TECHNICAL REPORT

Subject: Testing of a chair, described by the customer as the "Skye Chair", to
BS EN 16139:2013 Test Level 2

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 It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.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.

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.

Please note uncertainty of measurement has not been applied to the results in this report. SATRA uncertainty of measurement values are available on request.

Report signed by: Peter Westley
Position: Furniture Technologist
Department: Furniture and Floor Coverings

(Page 1 of 8)

ASSESSMENT OF THE SKYE CHAIR

As requested by Pineapple Contracts, SATRA have assessed the 'Skye Chair' submitted as detailed below.

SAMPLE SUBMITTED

Sample reference: Skye Chair
 Date received: 24 April 2014
 Testing completed: 29 May 2014
 Testing conducted by: Peter Westley
 Reported by: Peter Westley

TESTS CARRIED OUT

BS EN 16139:2013 – Test Level 2 – Strength durability and Safety – Requirements for non-domestic seating

RESULTS

SKYE CHAIR

BS EN 16139:2013 (Test Level 2)

Clause	Test Description	Result
4	Safety	
4.1	General	
a)	Accessible corners rounded or chamfered	Pass
b)	Edges of seat, back and arm rests rounded	Pass
c)	Edges of handles rounded or chamfered	N/A
d)	All other edges free of burrs and/or sharp edges	Pass
e)	Ends of hollow components closed or capped	N/A
-	Movable / adjustable parts have a safe design	N/A
-	Unintentional loosening of load bearing parts	Pass
-	Lubricated parts protected against user soiling	N/A
4.2	Shear and Squeeze Points	
4.2.1	Shear and squeeze points when setting up and folding	N/A
4.2.2	Shear and squeeze points under influence of powered mechanisms	N/A
4.2.3	Shear and squeeze points during use	Pass

Clause	Test Description	Result
4.3	Stability	
4.3.1	General	Pass
4.3.2	Swivelling chairs (<i>BS EN 1335-2:2009 & BS EN 1022:2005</i>)	N/A
4.3.3	Non swivelling chairs (<i>BS EN 1022:2005 only</i>)	Pass
4.4	Rolling Resistance of the Unloaded Chair	N/A
4.5	Safety of Construction (see Table 1)	Pass
5	Safety, Strength and Durability (see Table 1)	Pass
6	Test Methods (see Table 1)	
7	Information for Use	N/T (see Note 1)

BS EN 16139:2013 (Test Level 2) – Table 1

Clause 6	Strength & Durability Tests	Result
BS EN 1728:2012, 6.4	Seat and back static load	Pass
BS EN 1728:2012, 6.5	Seat front edge static load	Pass
BS EN 1728:2012, 6.6	Vertical static load on back	Pass
BS EN 1728:2012, 6.8, 6.9	Foot rail/rest and leg rest static load	N/A
BS EN 1728:2012, 6.10	Arm sideways static load	Pass
BS EN 1728:2012, 6.11	Arm downwards static load	Pass
BS EN 1728:2012, 6.13.1, 6.13.2	Vertical upwards static load on arm rests	N/A
BS EN 1728:2012, 6.17	Seat and back durability	Pass
BS EN 1728:2012, 6.18	Seat front edge durability	Pass
BS EN 1728:2012, 6.20	Arm durability	Pass
BS EN 1728:2012, 6.21	Foot rest durability	N/A
BS EN 1728:2012, 6.15	Leg forward static load	N/A
BS EN 1728:2012, 6.16	Leg sideways static load	N/A
BS EN 1728:2012, 6.24	Seat impact	Pass
BS EN 1728:2012, 6.25	Back impact	Pass
BS EN 1728:2012, 6.26	Arm impact	Pass
BS EN 1728:2012, 6.27.1	Drop test (multiple seating)	N/A
BS EN 1728:2012, 6.14	Auxiliary writing surface static load	N/A
BS EN 1728:2012, 6.22	Auxiliary writing surface durability	N/A

BS EN 1022:2005 Non-Swivelling Chair Stability Requirements for BS EN 16139:2013

Clause	Test Description	Result	
		Before*	After*
6	All Seating		
6.2	Forwards Overbalancing, all seating	Pass	Pass
6.3	Forwards Overbalancing for seating with footrest	N/A	N/A
6.4	Sideways Overbalancing, all seating without arms	N/A	N/A
6.5	Sideways Overbalancing, all seating with arms	Pass	Pass
6.6	Rearwards Overbalancing, all seating with backs	Pass	Pass
7	Seating with Variable Geometry		
7.3	Tilting Chairs	N/A	N/A
7.4	Rocking Chairs	N/A	N/A
7.5	Reclining Chairs with Footrest	N/A	N/A
7.6	Footrest test	N/A	N/A
7.7	Reclining Chairs without Footrest	N/A	N/A

* The acceptance criteria of BS EN 16139:2013 requires that the applicable stability test(s) shall be carried out after the applicable strength and durability tests (see Table 1) but, following the order the standard, they can also be carried out prior to the Table 1 tests.

N/A denotes clause 'Not Applicable'.

N/T denotes clause 'Not Tested'.

COMMENTS

Note 1: No "Information for use" was supplied, therefore the chair was not assessed against the requirements of this Clause.

CONCLUSION

The 'Skye Chair' supplied for testing by Pineapple Contracts, has satisfied the relevant requirements of BS EN 16139:2013 – Test Level 2 – "Strength durability and Safety – Requirements for non-domestic seating", except for Clause 7 (Information for use).



Front view of the 'Skye Chair'



Rear view of the 'Skye Chair'



Side view of the 'Skye Chair'

TERMS AND CONDITIONS OF BUSINESS

1. **GENERAL**
Work done or services undertaken are subject to the terms and conditions detailed below and all other conditions, warranties and representations, expressed or implied are hereby excluded.
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.
4. **CANCELLATION AND RETURNS**
Cancellation of orders for goods, services, training or consultancy is only acceptable by prior agreement of SATRA and a charge will normally be made.
5. **CLAIMS**
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.
6. **PAYMENT TERMS**
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.
7. **RETENTION OF TITLE**
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.
8. **GUARANTEE**
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.
9. **TEST REPORTS**
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.
11. **RESPONSIBILITY**
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.
12. **CONFIDENTIALITY**
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