

Test Report No. 7191010727-MEC11-OCS
dated 04 Oct 2011



PSB Singapore

Choose certainty.
Add value.

Note: This report is issued subject to the Testing and Certification Regulations of the TÜV SÜD Group and the General Terms and Conditions of Business of TÜV SÜD PSB Pte Ltd. In addition, this report is governed by the terms set out within this report.

Subject:

Testing of Office Chair submitted by Merryfair Chair System Sdn Bhd on 14 Jun 2011.

Tested For:

Merryfair Chair System Sdn Bhd
No 2, Jalan Koporat 1/KU9, Taman Perindustrian Meru,
42200 Klang, Selangor D.E.
Malaysia

Date of Test:

20 Jun 2011 to 30 Sep 2011

Description of Sample:

Two complete sets of Office Chair as shown in the photograph 1 were received. The following descriptions were given by the client:

Model : Mobby
Product Type : Office Chair
Country of Origin : Malaysia

Method of Test:

As requested by the client, the tests were conducted in accordance with the following standard:

ANSI/BIFMA X5.1 – 2002 "General-Purpose Office Chairs – Tests"

The tests were conducted at TÜV SÜD PSB furniture test laboratory, a FIRA (UK) Accredited Testing Laboratory, located at No.1 Science Park Drive. Singapore 118221.



Laboratory:
TÜV SÜD PSB Pte. Ltd.
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: testing@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
3 Science Park Drive, #04-01/05
The Franklin, Singapore 118223
TUV®

Test Report No. 7191010727-MEC11-OCS
dated 04 Oct 2011



PSB Singapore

Results:

Clause	Test	Parameters	Results	Requirement
5	Back Strength Test – Static – Type I	Functional load = Proof load = Duration =	N/A	Functional load: No loss of serviceability Proof Load: No sudden & major change in structural integrity. Loss of serviceability is acceptable
6	Back Strength Test – Static – Type III	Functional load = 667 N Proof load = 1112 N Duration = 1 min	Passed	
7	Base Test – Static	Loading force = Duration = Cycles =	N/A	No sudden & major change in the structural integrity of the base.
8	Drop Test – Dynamic	Functional load = 102 kg Proof load = 136 kg Drop ht = 152 mm	Passed	Functional load: No loss of serviceability Proof Load: No sudden & major change in structural integrity. Loss of serviceability is acceptable
9	Swivel Test – Cyclic	Seat load = Cycles = Rate =	N/A	No loss of serviceability
10	Tilt Mechanism Test – Cyclic	Seat load = Cycles = Rate =	N/A	No loss of serviceability to the tilt mechanism
11	Seating Durability Test – Cyclic - Impact Test - Front Corner Load-Ease Test – Cyclic – Off Center	Seat load = 57 kg Drop ht = 25 mm Cycles = 100000 Rate = 10 - 30 cycles/min Seat load = 734 N Cycle = 40000 Rate = 10 - 30 cycles/min	Passed	No loss of serviceability

Test Report No. 7191010727-MEC11-OCS
dated 04 Oct 2011



PSB Singapore

Results:

Clause	Test	Parameters	Results	Requirement
12	Stability Tests - Type III a) Rear Stability 1. Locked 2. Unlocked b) Front Stability	Seat weight = 79 kg Vertical Load = 600 N Horizontal force = 20 N	Passed	Force required for front support to lift off shall be more than: - Type I & II : 89N - Type III : 156N Chair shall not tip over
13	Arm Strength Test – Vertical – Static	Functional load = 890 N Proof load = 1334 N Duration = 1 min	Passed	Functional load: No loss of serviceability Proof Load: No sudden & major change in structural integrity. Loss of serviceability is acceptable
14	Arm Strength Test – Horizontal – Static	Functional load = 445 N Proof load = 667 N Duration = 1 min	Passed	
15	Back Durability Test – Cyclic – Type I	Seat weight = Loading force = Cycles = Rate =	N/A	No loss of serviceability
16	Back Durability Test – Cyclic – Type III	Seat weight = 102 kg Loading force = 334 N Cycles = 120000 Rate = 10 - 30 cycles/min	Passed	
17	Caster / Chair Base Durability Test – Cyclic - Pedestal Base Chairs	Seat weight = 102 kg Cycles = 2 000 (Obstacles) 98 000 (No obstacles) Rate = 10 ± 2 cycles/min	Passed	No loss of serviceability
	Caster Retention for Each Caster	Applied force = 22 N		No part of castor shall separate from base

Test Report No. 7191010727-MEC11-OCS
dated 04 Oct 2011




PSB Singapore

Results:

Clause	Test	Parameters	Results	Requirement
18	Leg Strength Test – Front & Side Application - Front Load Test - Side Load Test	Functional load = Proof load = Duration = Functional load = Proof load = Duration =	N/A	Functional load: No loss of serviceability Proof Load: No sudden & major change in structural integrity. Loss of serviceability is acceptable
19	Footrest Durability Test – Vertical – Cyclic	Loading force = Cycles = Rate =	N/A	No loss of serviceability
20	Arm Durability Test – Cyclic	Applied force = 400 N Cycles = 60000 Rate = 10 - 30 cycles/min	Passed	Structural breakage or loss of serviceability shall constitute failure
21	Out Stop Tests for Chairs with Manually Adjustable Seat Depth	Seat weight = Loading weight = Cycles =	N/A	No loss of serviceability
22	Tablet Arm Static Load Test	Applied load = Duration =	N/A	No sudden and major change in the structural integrity of the chair. After test, tablet arm must allow egress from the unit; other losses of serviceability are acceptable
23	Tablet Arm Load Ease Test – Cyclic	Applied load = Cycles = Rate =	N/A	No loss of serviceability

Remarks:

1) N/A: Not applicable due to features not available on chair.


Gavin Ong
Associate Engineer


Chin Fook Onn
Product Manager
Consumer & Safety Products
Mechanical Centre



Photograph 1 : Mobby



Test Report No. 7191010727-MEC11-OCS
dated 04 Oct 2011



PSB Singapore

Please note that this Report is issued under the following terms :

1. This report applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results are not used to indicate or imply that they are applicable to other similar items. In addition, such results must not be used to indicate or imply that TÜV SÜD PSB approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that TÜV SÜD PSB in any way "guarantees" the later performance of the product/equipment. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product/equipment.
2. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. TÜV SÜD PSB therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.
3. Nothing in this report shall be interpreted to mean that TÜV SÜD PSB has verified or ascertained any endorsement or marks from any other testing authority or bodies that may be found on that sample.
4. This report shall not be reproduced wholly or in parts and no reference shall be made by the Client to TÜV SÜD PSB or to the report or results furnished by TÜV SÜD PSB in any advertisements or sales promotion.
5. Unless otherwise stated, the tests were carried out in TÜV SÜD PSB Pte Ltd, No.1 Science Park Drive Singapore 118221.

July 2011

