

TEST REPORT



Your Ref: -

Date: 09 Mar 2006

Our Ref: 54S054449/KLU

Page: 1 of 6

DID: 6885 1414

Fax: 6779 3903

NOTE: This report is issued subject to PSB Corporation's "Terms and Conditions Governing Technical Services". The terms and conditions governing the issue of this report are set out as attached within this report.

Subject:

Testing of office chair submitted by Benithem Sdn. Bhd. on 18 Aug 2005, 01 Dec 2005, 09 Jan 2006 & 09 Mar 2006.

Tested For:

Benithem Sdn. Bhd.
No. 33, Jalan Industri 1
Taman Perindustrian Pekan Nanas
81500 Pekan Nanas
Pontian, Johor
West Malaysia
Tel: 607-6996668
Fax: 607-6992655
Attn: Dyphne Wong

Date of Test:

18 Aug 2005 – 09 Mar 2006

Description of Sample:

One piece of office chair as shown in the photograph was received. The following descriptions were given by the client :

Brand/Model/Serial No : Comodo / COY2SYNAJ

Country of Origin : Malaysia

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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"

Results:

Clause	Test	Parameters	Results	Requirement
5	Back Strength Test – Static – Type I	Functional load: 890N Proof load: 1334N Duration: 1 min	Passed	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: 667N Proof load: 1112N Duration: 1 min	Passed	
7	Base Test – Static	Loading force: 11.1KN Duration: 1 min Cycles: 2	Passed	No sudden & major change in the structural integrity of the base.
8	Drop Test – Dynamic	Highest seat position: Functional load: 102kg Proof load: 136kg Drop ht: 152mm (6in) Lowest seat position: Functional load: 102kg Proof load: 136kg Drop ht: 152mm (6in)	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: 102kg Cycles: 60,000 highest position 60,000 lowest position Rate: 5-15 cycles/min	Passed	No loss of serviceability
10	Tilt Mechanism Test – Cyclic	Seat load: 102kg Cycles: 300,000 Rate: 10-30 cycles/min	Passed	No loss of serviceability to the tilt mechanism
11	Seating Durability test – Cyclic			No loss of serviceability
	- Impact Test	Seat load: 57kg Drop ht: 25mm (1in) Cycles: 100,000 Rate: 10-30 cycles/min	Passed	
	- Front Corner Load-Ease Test – Cyclic – Off Center	Seat load: 734N Cycle: 40,000 Rate: 10-30 cycles/min	Passed	

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Results (Con't):

Clause	Test	Parameters	Results	Requirement
12	Stability Tests			
	a) Rear Stability - Locked - Unlocked	Seat weight: 79kg	Passed	Force required for front support to lift off shall be more than: - Type I : 89N - Type II : 89N - Type III : 156N
	b) Front Stability	Vertical Load: 600N Horizontal force: 20N	Passed	Chair shall not tip over
13	Arm Strength Test – Vertical – Static	Functional load: 890N Proof load: 1334N Duration: 1min	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: 445N Proof load: 667N Duration: 1min	Passed	
15	Back Durability Test – Cyclic – Type I	Seat weight: 102kg Loading force: 445N Cycles: 120,000 Rate: 10-30 cycles/min	Passed	No loss of serviceability
16	Back Durability Test – Cyclic – Type III	Seat weight: 102kg Loading force: 334N Cycles: 120,000 Rate: 10-30 cycles/min	Passed	
17	Caster / Chair Base Durability Test – Cyclic			
	- Pedestal Base Chairs	Seat weight: 102kg Cycles: 2 000 (Obstacles) 98 000 (No obstacles) Rate: 10±2 cycles/min	Passed	No loss of serviceability
	- Chairs with Legs	Seat weight: 102kg Cycles: 2 000 (Obstacles) 98 000 (No obstacles) Rate: 10±2 cycles/min	N/A	No loss of serviceability
	Caster Retention for Each Caster	Applied force: 22N	Passed	No part of castor shall separate from base

Results (Con't):

Clause	Test	Parameters	Results	Requirement
18	Leg Strength Test – Front & Side Application - Front Load Test - Side Load Test	Functional load: 334N Proof load: 556N Duration: 1 min (each leg) Functional load: 334N Proof load: 512N Duration: 1 min (front and rear leg)	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: 890N Cycles: 50,000 Rate: 10-30 cycles/min	N/A	No loss of serviceability
20	Arm Durability Test – Cyclic	Applied force: 400N Cycles: 60,000 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: 70kg Loading weight: 25kg Cycles: 25	N/A	No loss of serviceability
22	Tablet Arm Static Load Test	Applied load: 68kg Duration: 5 min	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: 35kg Cycles: 100,000 Rate: 14±6 cycles/min	N/A	No loss of serviceability

Remarks:

N/A – test is not applicable to the chair due to feature not available.


Kelvin Lau
Associate Engineer


Seah Chong An
Assistant Vice President
Consumer & Safety Products
Testing Group

TEST CERTIFICATE



This Certificate is issued to

Benithem Sdn Bhd
No. 33, Jalan Industri 1
Taman Perindustrian Pekan Nanas
81500 Pekan Nanas
Pontian, Johor
Malaysia

FOR

Product: Office Chair

Brand/Model: Comodo/COY2SYNAJ

Detail: -

Specification: ANSI/BIFMA X5.1 – 2002

Test Report: 54S054449/KLU

Summary

A sample of the product/equipment has been tested and is found to comply with the requirements of the above standard(s).

A handwritten signature in black ink, appearing to read 'Chiew Pau', written over a horizontal line.

Vice-President
Certification & Inspection

Certificate No:

01791

Date of Original Issue:

28/04/2006

Date of Last Revision:

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Date of Expiry:

30/04/2008

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Note: This Certificate is not a Certificate of Conformity.