TEST REPORT

Your Ref: -

Date: 09 Mar 2006

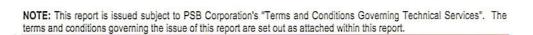
Corporation

Our Ref: 54S054449/KLU

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DID: 6885 1414

Fax: 6779 3903



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

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







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 - Impact Test - Front Corner Load- Ease Test - Cyclic - Off Center	Seat load: 57kg Drop ht: 25mm (1in) Cycles: 100,000 Rate: 10-30 cycles/min Seat load: 734N Cycle: 40,000 Rate: 10-30 cycles/min	Passed	No loss of serviceability

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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

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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).

Vice-President Certification & Inspection

Certificate No:

Date of Original Issue:

Date of Last Revision:

Date of Expiry:

01791

28/04/2006

30/04/2008