

TEST REPORT



Your Ref: DO No : 000002191

Date: 12 Aug 2004

Our Ref: 54S042173/KLU

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DID: 6885 1414

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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 27 Apr and 27 Jul 2004.

Tested for:

Hsu's Plastic Co. Ltd
7th No.3 Lane 100,
Wu Fu Road,
Wu Gu Hsiang,
Taipei Hsien, R.O.C.
Tel: 00886-2-22914818
Fax: 00886-2-22914816

Date of test:

3 May – 12 Aug 2004

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	:	H158
Country of Origin	:	Malaysia
Description	:	X-11 Synchron Mesh Chair With Adjustable Armrest
Castors	:	60 mm Heavy Duty Twin Wheel Castors
Chair Base	:	Sleek Designed Nylon Chair Base
Gaslift	:	Imported DIN Standard Gaslift
Armrest	:	Adjustable Armrest With Polypropylene Pad
Mechanism	:	Synchron Mechanism with 4 Locking Device
Additional	:	Hyper Active Lumber Support

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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	Description	Assessment
5	Back strength test - Static - Type I (Tilting chair)	Duration 1 min Functional load 890N Proof load 1334N	Passed
6	Back strength test - Static - Type II & III (Fixed seat angle, tilting backrest & Fixed seat angle, fixed backrest)	Duration 1 min Functional load 667N Proof load 1112N	Passed Passed
7	Base test - Static	Loading force 11.1KN for 1 min - 2 applications	Passed
8	Drop test - Dynamic	Functional load 102kg Proof load 136kg	Passed Passed
9	Swivel test - Cyclic	Cycle 120 000 Loading load 102kg	Passed
10	Tilt mechanism test - Cyclic	Cycle 300 000 Loading load 102kg	Passed
11	Seating Durability test - Cyclic - Impact Test	Cycle 100 000 Loading 57kg	Passed
	- Front Corner Load-Ease Test - Cyclic – Off Center	Cycle 40 000 Loading 734N	Passed
12	Stability test - Dynamic a) Rear stability	Balancing weight 79kg Applied force - Type I : 89N - Type II : 89N - Type III : 156N	Passed NA Passed
	b) Front stability	Vertical Load 600N Horizontal force 20N	Passed
13	Arm strength test - Vertical - Static	Functional load 890N Proof load 1334N	Passed Passed
14	Arm strength test - horizontal - Static	Functional load 445N Proof load 667N	Passed Passed
15	Back durability test – Cyclic – Type I	Balancing weight 102kg Loading force 445N Cycle 120 000	Passed
16	Back durability test - Cyclic - Type II & III	Balancing weight 102kg Loading force 334N Cycle 120 000	Passed

Results (Con't)

Clause	Test	Description	Assessment
17	a) Caster/chair base durability test - Cyclic - For pedestal Base Chairs	Balancing weight 102kg Cycle 2 000 with obstacles Cycle 98 000 without obstacles	Passed
	- For Chairs with legs	Balancing weight 102kg Cycle 2 000 with obstacles Cycle 98 000 without obstacles	NA
	b) Caster retention	Applied force 22N	Passed
18	Leg strength test - Front & side application - Front load Test	Duration 1 min Functional load 334N Proof load 556N	NA
	- Side Load Test	Duration 1 min Functional load 334N Proof load 512N	NA
19	Footrest durability test - Vertical - Cyclic	Loading force 890N Cycle 50 000	NA
20	Arm Durability Test - Cyclic	Applied force 400N Cycle 60 000	Passed
21	Out stop tests for chairs with manually adjustable seat depth	Balancing weight 70kg Loading weight 25kg Cycle 25	NA
22	Tablet Arm Static Load Test	Applied load 68kg Duration 5 min	NA
23	Tablet Arm Load Ease Test - Cyclic	Applied load 35kg Cycle 100 000	NA

NA – Not Applicable.

Acceptance level for clause 5, 6, 7, 8, 13, 14, 18, 22

- Functional load shall cause no loss of serviceability to the chair

- Proof load shall cause no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.

Acceptance level for clause 9, 10, 11, 15, 16, 17, 19, 20, 21, 23

- Shall cause no loss of serviceability.

Acceptance level for clause 12 - Shall not tip over


Kelvin Lau
Associate Engineer


Goh-Chow Chew Ping
Product Manager
Consumer & Safety Products
Testing Group



Model H158

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TEST CERTIFICATE



This Certificate is issued to

Benithem Sdn Bhd
33, Jalan Industri 1,
Taman Perindustrian Pekan Nanas,
81500 Pontian,
Johor, Malaysia

FOR

Product: Office Chair

Brand/Model: X11

Detail: X11 Synchron Mesh Chair With Adjustable Armrest

Specification: ANSI/BIFMA X5.1 - 2002 (Clause 5, 6, 7, 8, 9, 10, 11, 12(Type I & III), 13, 14, 15, 16, 17(For pedestal base chair) & 20)

Test Report: 54S042173/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 'Ameyan', written over a horizontal line.

Vice-President
Certification & Inspection

Certificate No:
01355

Date of Original Issue:
02/09/2004

Date of Last Revision:
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Date of Expiry:
30/09/2006