

TEST REPORT



Your Ref: Fax dated 21 Apr 2003 Date: 30 May 2003
Our Ref: 54S031929/KLU Page: 1/4
DID: 6885 1414 Fax: 6779 3903

NOTE: This Report is issued subject to the "Terms and Conditions Governing Technical Services" set out in the "Request for Technical Services" form. The terms and conditions governing the issue of this report are set out overleaf.

Subject:

Testing of Office chairs submitted by Benithem Sdn Bhd on 21 Apr 2003.

Tested for:

Benithem Sdn Bhd
33, Jalan Industri 1,
Taman Perindustrian Pekan Nanas,
Pekan Nanas, 81500 Pontian,
Johor, Malaysia
Tel: 607 6996668
Fax: 607 6992655

Attn: Ms Joey Tong

Date of test:

21 Apr – 30 May 2003

Description of sample:

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

Brand	:	Calor (Mid Back Synchron AJ Arm Chair)
Model	:	CL8882SYA
Manufacturer	:	Benithem Sdn Bhd
Country of Origin	:	Malaysia
Description	:	Injection Moulded Foam For Seat And Back Cofimo Italy Seat Sliding Mechanism SUSPA Germany Gaslift 60mm Heavy Duty Twin Wheel Castors 7 Level Height Adjustable Armrest With Soft PU Pad Donati Italy Synchron With 4 Locking Mechanism Sleek Designed Aluminium Die Cast Chair Base

A handwritten signature in black ink, appearing to be 'K. G. H.' or similar.



Your product quality and safety mark

Method of test:

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

ANSI/BIFMA X5.1 - 1993 "For office furnishings – General-Purpose Office Chairs – Tests"

Results:**ANSI/BIFMA X5.1 – 1993**

Clause	Test	Test parameter	Assessment
5	Back strength test - static – Type I (Tilt seat)	Duration 1 min Functional load 890N Proof load 1334N	N.A. N.A.
6	Back strength test - Static - Type IIa (Non tilt or adjustable seat – tilt back)	Duration 1 min Functional load 667N Proof load 1112N	N.A. N.A.
7	Back strength test – static – Type IIb (Non tilt or adjustable seat – Fixed, flex, or manually adjustable Back)	Duration 1 min Functional load 667N Proof load 1112N	Passed Passed
8	Base test - static	Loading force 11.1KN for 1 min Loading force 11.1KN until Deflection is reasonably stabilized	Passed Passed
9	Drop test	Functional load 102kg Proof load 136kg	Passed Passed
10	Swivel test - cyclic	Cycle 120 000 Loading load 102kg	Passed
11	Tilt mechanism test - cyclic	Cycle 200 000 Loading load 102kg	N.A.
12	Seating impact test - cyclic	Cycle 100 000 Loading 57kg	Passed
13	Stability test – dynamic a) Rear stability	Balancing weight 79kg Applied force - Type I : 89N - Type II : 89N - Type III : 156N	- - Passed
	b) Front stability	Chair weight: 22.22kg Applied force – not less than 40% of total chair weight	Passed

Results (Con't):


Clause	Test	Test parameters	Assessment
14	Arm strength test – vertical - static	Functional load 890N Proof load 1334N	Passed Passed
15	Arm strength test – horizontal – static	Functional load 445N Proof load 667N	Passed Passed
16	Back durability test – cyclic – Type I	Balancing weight 45kg Loading force 445N Cycle 120 000	N.A.
17	Back durability test – cyclic – Type Iia & Type Iib	Balancing weight 45kg Loading force 334N Cycle 120 000	Passed
18	Caster / chair base a) durability test – cyclic - Hard treads - Soft treads b) Caster retention	Balancing weight 136kg Cycle 100 000 Cycle 36 000 Applied force 22N	Passed - Passed
19	Leg strength test - Front Application – static – Type II	Duration 1 min Functional load 334N Proof load 556N	N.A. N.A.
20	Leg strength test – side application - static – Type II	Duration 1 min Functional load 334N Proof load 556N	N.A. N.A.
21	Footrest durability test – vertical – cyclic	Loading force 890N Cycle 50 000	N.A.

Acceptance level for clause 5, 6, 7, 14, 15, 19 & 20:

- Functional load shall cause no structural breakage or loss of serviceability
- 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 8, 10, 11, 12, 16, 17, 18 & 21:

- Shall cause no structural breakage or loss of serviceability.


Kelvin Lau
Associate Engineer


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



Calor (Mid Back Synchron AJ Arm Chair)

K. Ph