

Karo Manufacturing (Pty) Ltd  
Attention: Mr J Roetger  
PO Box 877  
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Your ref.:

Our ref.: 2484301 WO

Enquiries: S Peach

Tel.: 428-7077

No.: 7228/065A/TF04  
(Revised)

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Date: 2004-12-10

## OFFICE CHAIR MECHANISM

### 1 SAMPLE

#### 1.1 Description of sample

One chair mechanism comprising a test bases, a false seat and a layer of foam fixed to the false seat and back.

Manufacturer: Northfield Metal Products  
Model: FRE-FLT-TATL EB-4 BLK 17-4  
Seat slider: AUTO FRE-FLT MOUNT

#### 1.2 Date of receipt:

18 November 2004

#### 1.3 Condition of sample

The sample was in a suitable condition for testing purposes.

### 2 METHOD OF TEST

**AFRDI Standard 109-D9-96 "Components for chairs", Clause 5 "Office chair mechanisms.**

Unless we are specifically requested to retain samples for a longer period, or to retain them for collection by the job sponsor, samples tested will be disposed of after a period of one month, or as we may deem fit.

3 RESULTS

NATURE OF TEST	REQUIREMENTS	RESULTS
Static load	2 000 N, 10 times for 10 s per load application	Complies
	900 N, 10 times for 10 s per load application	Complies
	750 N applied on axis of rotation and 1200 N and 415 N applied to seat and back respectively for 200 000 cycles followed by 50 000 cycles to the right and 50 000 cycles to the left.	Complies
Proof load test	2400 N on the false seat	Complies
Cyclic loading of stops	415 N horizontal backward force to seat back 10 000 times.	Complies
Control levers	Apply static force of 300 N	Complies
	Apply a cyclic force of 150 N for 10 000 cycles	Complies

4 CONCLUSION

The sample of office chair mechanism, refer section 1.1, as described and tested by Test House complied to the requirements of AFRDI 109-D9-96.



**E Seeger: MANAGER  
TIMBER & FURNITURE LABORATORY**



**S Peach: TEST OFFICER**

This report relates only to the specific sample(s) tested as identified herein. It does not imply SABS approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested. (Refer also to the complete conditions printed on the back of official test reports.)

Hierdie verslag het slegs betrekking op die spesifieke monster(s) wat getoets is, soos hierin geïdentifiseer. Dit impliseer nie dat die kwaliteit en/of prestasie van die betrokke artikel(s) deur die SABS goedgekeur is nie en die toetsresultate is nie van toepassing op 'n soortgelyke artikel wat nie getoets is nie. (Sien ook die volledige voorwaardes op die rugkant van amptelike toetsverslae.)

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Date: 2005-03-22

## **CASTOR CHAIR**

### **1. SAMPLE**

#### **1.1 DESCRIPTION**

One black office chair, namely the Heathrow high back with adjustable arms chair, with five star wheel base.

#### **1.2 DATE OF RECEIPT**

3 February 2005

### **2 NATURE OF TEST**

Refer section 4.

### **3 METHOD OF TEST**

**AS/NZS 4438:1997 "Height adjustable swivel chairs", level 6**

**4. RESULTS**

NATURE OF TEST	REQUIREMENT	RESULT
Seat static load	2000 N, 10 times	Complies
Back static load	760 N, 10 times	Complies
Arm sideways static load	600 N, 10 times	Complies
Arm downwards static load	1200 N, 10 times	Complies
Seat fatigue	1200 N, 200 000 times	Complies
Back fatigue	415 N, 200 000 times	Complies
Seat impact	20 kg from a height of 350mm, 10 times	Complies
Back impact	3kg from a height of 620mm at a 68° angle, 10 times	Complies
Arm impact	3kg from a height of 620mm at a 68° angle, 10 times	Complies
Drop test	10 times from a height of 450mm onto one leg	Complies
Swivelling	1200 N, 100 000 times	Complies
Rearwards overturning	80 N, 300mm above the seat	Complies
Rearwards overturning of tilting or reclining chairs	N/A	Complies
Accidental rearward over-turning	N/A	Complies

**5 REMARKS**

5.1 The sample of chair, refer to section 1.1, as received and tested by SABS Test House complied with the performance requirements of Table 5.1, test level 6, of AS/NZS 4438:1997.



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