

Test Report

No.: SDHGR100600752FT

Date: Jun 30, 2010

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ZHONGSHAN SHI SONGLIN FURNITURE CO., LTD
B BLOCK, JINLI INDUSTRIAL ZONE, SANXING ROAD, SALANG VILLAGE,
SANJIAO TOWN, ZHONGSHAN CITY, GUANGDONG PROVINCE, CHINA 528400

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description	: OFFICE FABRIC MESH CHAIR
Style / Item No.	: SL-A3
Manufacturer	: ZHONGSHAN SHI SONGLIN FURNITURE CO., LTD
Country of Destination	: USA
Test Performed	: Selected test(s) as requested by applicant
Sample Receiving Date	: Jun 14, 2010
Test Performing Date	: Jun 14, 2010 to Jun 30, 2010
Test Result(s)	: For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Co., Ltd.

Jack Yao
Section Manager

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Test Conducted: Partial Tests of ANSI/BIFMA X5.1 -2002 General –Purpose Office Chair – Tests, American National Standard for Office Furniture.

Type of chair: Type I & Type III

Test Items	Test Methods & Requirements	Test Results
Back Strength Test - Static - Type II & III - Functional Load (Clause 6.4.1)	No loss of serviceability when 667N (150lbs.) is applied for 1 min. Applied 90° to the back at 16in. above the seat.	Pass
Back Strength Test - Static - Type II & III - Proof Load (Clause 6.4.2)	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1112N (250lbs.) is applied for 1 min. Applied 90° to the back at 16in. above the seat.	Pass
Tilt Mechanism Test – Cyclic – Type I & II (Clause 10)	No loss of serviceability after 300,000cycles under a 102kg (225lbs.) load to the center of the seat	Pass
Stability Test – Rear Stability (Clause 12.3)	A 79kg (173lbs.) weight is placed to the seat center (strapped as Fig. 12a). Obstruct the chair casters/legs with 13mm (½in.) obstacle. A tipping force is applied to the chair back until the total weight is transferred to the rear support members. The tipping force shall not be less than: Type I and II –89N (20 lbs.) Type III –156N (35 lbs.)	Pass
Stability Test – Front Stability (Clause 12.4)	The chair is obstructed with a 13mm (½ in.) obstruction to the chair casters/legs. A downward load of 600N (135lbs.) is centered 60mm (2.4in.) from the seat front center edge. The seat shall withstand a 20N (4.5lbf.) horizontally from the front seat edge without tipping.	Pass
Arm Strength Test Vertical – Static - Functional Load (Clause 13.4)	No loss of serviceability when 890N (200lbs.) is applied for 1 min. The vertical load is uniformly applied along a 127mm (5in.) length at the apparent weakest point.	Pass
Arm Strength Test Vertical-Static - Proof Load (Clause 13.4)	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1334N (300lbs.) is applied for 1 min. The vertical load is uniformly applied along a 127mm (5 in.) length at the apparent weakest point.	Pass
Arm Strength Test Horizontal –Static - Functional Load (Clause 14.4)	No loss of serviceability when 445N (100lbs.) for 1 min. is applied horizontally outward to the armrest at the most forward point of the armrest.	Pass

To be continued...

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Test Items	Test Methods & Requirements	Test Results
Arm Strength Test Horizontal – Static - Proof Load (Clause 14.4)	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 667N (150lbs.) for 1 min. is applied horizontally outward to the armrest at the most forward point of the armrest.	Pass
Back Durability Test – Cyclic – Type II & III (Clause 16)	No loss of serviceability in 120,000 cycles with a 102kg (225lbs.) in the center of the seat and a 334N (75lbf.) 90° to the center of the chair back. For chairs with a back width greater than 406mm (16in.), test at the center of chair back for 80,000cycles and then 102mm (4in.) off-center 40,000 cycles, half to each side.	Pass
Arm Durability Test- Cyclic (Clause 20)	No structural breakage or loss of serviceability when a force of 400N (90lbf.) is applied to each arm at a 10° angle $\pm 1^\circ$ for 60,000cycles	Pass

Remark:

- 1) NA – Not applicable;
- 2) Type of chair:
Type I – tilt chair: a chair with a seat tilts with a counterbalancing force;
Type II – fixed seat angle, tilting backrest: a chair that provides a fixed angle with a tilting backrest;
Type III – fixed seat angle, fixed backrest: a chair that provides a fixed seat angle with a fixed backrest;
- 3) Only the partial tests in ANSI/BIFMA X5.1 -2002, which was requested by client, were performed.

PHOTO APPENDIX



End of Report

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