

## Test Report

No.: SDHGR101102215FT

Date: Dec 15, 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 PROV., CHINA 528400

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

Sample Description : OFFICE CHAIR  
Style / Item No. : SL-B3  
Manufacturer : ZHONGSHAN SHI SONGLIN FURNITURE CO., LTD  
Country of Detination : USA  
Test Performed : Selected test(s) as requested by applicant  
Sample Receiving Date : Nov 26, 2010  
Sample Resubmission Date : Dec 10, 2010  
Test Performing Date : Nov 26, 2010 to Dec 15, 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

| Test Items   | Test Methods & Requirements  | Test Results |
|--|--|--------------|
| Back Strength Test - Static - Type I<br>Clause 5.4<br>(Functional Load)        | No loss of serviceability when 890N (200lbs.) is applied for 1 min. Applied 90° to the back at 16in. above the seat.   | Pass         |
| Back Strength Test - Static - Type I<br>Clause 5.4<br>(Proof Load)             | No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1334N (300lbs.) is applied for 1 min. Applied 90° to the back at 16in. above the seat.  | Pass         |
| Back Strength Test - Static - Type II & III<br>Clause 6.4<br>(Functional Load) | 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<br>Clause 6.4<br>(Proof Load)      | 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<br>Clause 10                        | No loss of serviceability after 300,000cycles under a 102kg (225lbs.) load to the center of the seat   | Pass         |
| Impact Test – Cyclic<br>Clause 11.3  | No loss of serviceability in 100,000cycles impact. A weight of 57kg (125lbs.) free falls onto the seat from 1 in. height.  | Pass         |
| Arm Strength Test Vertical – Static<br>Clause 13.4<br>(Functional Load)        | 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<br>Clause 13.4<br>(Proof Load)               | 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 –<br>Clause 14.4<br>(Functional Load)     | 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         |
| Arm Strength Test Horizontal – Static –<br>Clause 14.4<br>(Proof Load)         | 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 I<br>(Clause 15)                          | No loss of serviceability in 120,000 cycles with a 102kg (225lbs.) in the center of the seat and a 445N (100lbf.) 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         |

To be continued...

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### Remark:

- 1) Only the partial tests in ANSI/BIFMA X5.1 -2002, which was requested by client, were performed.
- 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;

### Photo Appendix



Sample as received – View 1



Sample as received – View 2

\*\*\*End of Report\*\*\*

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