

Test Report

No.: SDHG1508013429FT

Date: Sep.01, 2015

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SIT ZONE FURNITURE CO., LTD
 NO.8, CHAOHAI ROAD, XIQING, LONGJIANG TOWN, SHUNDE DISTRICT, FOSHAN CITY,
 GUANGDONG PROVINCE, CHINA

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

Sample Description : CH-163B (OFFICE CHAIR)
 Manufacturer : SIT ZONE FURNITURE CO., LTD
 Sample Receiving Date : Aug.13, 2015
 Test Performing Date : Aug.13, 2015 to Sep.01, 2015

Test Result Summary

Test(s) Requested	Result(s)
Clause 5, 7, 11.3, 13, 14 & 15 of ANSI/BIFMA X5.1:2011 (Type I, III)	PASS

Summary:

1. For further details, please refer to the following page(s).

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



Bill Wang
 Approved signatory



SGS-CSTC Standards Technical Services Co., Ltd.
 Shunde Branch

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1/F, 1st Building, European Industrial Park, No.1 Shunhenan Road, Wusha Section, Daikang Town, Shunde, Foshan, Guangdong, China 528333 t (86-757)22805888 f (86-757)22805858 www.sgs.com.cn
 中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

TESTS AND RESULTS

Test Conducted:

Clause 5, 7, 11.3, 13, 14 & 15 of ANSI/BIFMA X5.1:2011 General-Purpose Office Chairs – Tests.

General Test Condition:

The following test program was conducted in a laboratory environment maintained at 15°C to 25°C and 50%±5 RH. The sample was individually tested after conditioning in the test environment for at least 24 hours prior to conducting the test.

The complete detailed procedures may be found in the referenced specification and are only summarized herein.

No. of Sample:

3 pieces (Sample 1, 2, 3 + additional bases, casters). For more sample information and pictures, please refer to the following page.

Chair Type: Type I, III. For the classification of types, please refer to Annex A.

Test	Test Description and Requirements	Test Results
Safety, Durability and Structural Adequacy		
5	Backrest Strength Test - Static - Type I	
5.4.1	Functional Load There shall be no loss of serviceability to the chair when 890 N (200 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 90 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees ± 10 degrees throughout the loading of the backrest.	PASS
5.4.2	Proof Load There shall be no sudden and major change in the structural integrity of the chair, loss of serviceability is acceptable, when 1334 N (300 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 90 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees ± 10 degrees throughout the loading of the backrest.	PASS
7	Base Test – Static There shall be no sudden and major change in the structural integrity of the base. The center column may not touch the test platform during the load applications when a force of 11,120 N (2500 lbf.) is applied to the vertical support column, or test fixture that simulates the taper/base interface for one (1) minute. Remove the force, and then apply a second force of 11,120 N (2500 lbf.) for one (1) minute.	PASS
11	Seating Durability Tests – Cyclic	



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SGS-CALIBRATED Standards Technical Services Co., Ltd.
Shunde Branch Shunde Technical Goods Laboratory

1/F, 1st Building, European Industrial Park, No.1 Shunshen Road, Wusha Section, Daikang Town, Shunde, Foshan, Guangdong, China 528333 t (86-757)22805888 f (86-757)22805858 www.sgs.com.cn
中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

Test	Test Description and Requirements	Test Results
11.3	<p>Impact Test</p> <p>There shall be no loss of serviceability to the chair after a test bag weighing 57kg (125lbs.) is free fell from 30 mm (1.2 in.) above the uncompressed seat to the specified position on seat for 100,000 cycles.</p> <p>The drop height and/or seat height shall be adjusted during the test if the drop height changes by more than 13 mm (0.5 in.). The cycling device shall be set at a rate between 10 and 30 cycles per minute.</p> <p><i>Note: Chairs with less than 44 mm (1.75 in.) of cushioning materials in the seat shall have foam added to bring total cushioning thickness to 50 mm ± 6 mm (2 in. ± 0.25 in.). Any additional foam added to the top of the seat shall have a 25% Indentation Force Deflection (IFD) of 200 N ± 22 N (45 lbf. ± 5 lbf.). Flexible seat surfaces (i.e., mesh, flexible plastic, etc.) are not considered cushioning materials.</i></p>	PASS
13	Arm Strength Test - Vertical - Static	
13.4.1	<p>Functional Load</p> <p>Apply an initially vertical pull force of 750N (169lbs.) to the load adapter which is 127 mm (5 in.) long and at least as wide as the width of the arm shall be attached to the top of the arm rest structure such that the load will be applied at the apparent weakest point that is forward of the chair backrest, for one (1) minute.</p> <p>There shall be no loss of serviceability. For a height adjustable arm, failure to hold its height adjustment position to within 6 mm (0.25 in.) from its original set position as the result of the loading is considered a loss of serviceability.</p>	PASS
13.4.2	<p>Proof Load</p> <p>Apply an initially vertical pull force of 1125N (253 lbs.) to the load adapter which is 127 mm (5 in.) long and at least as wide as the width of the arm shall be attached to the top of the arm rest structure such that the load will be applied at the apparent weakest point that is forward of the chair backrest, for one (1) minute.</p> <p>There shall be no sudden and major change in the structural integrity of the chair. For a height adjustable arm, a sudden drop in height of greater than 25 mm (1 in.) does not meet this requirement. Loss of serviceability is acceptable.</p>	PASS
14	Arm Strength Test - Horizontal - Static	
14.4.1	<p>Functional Load</p> <p>Apply an initially horizontal pull force of 445 N (100 lbf.) to the load adapter which is a loading device or strap, not greater than 25 mm (1 in.) in horizontal width, shall be attached to the arm so that the load is initially applied horizontally to the armrest structure at the apparent weakest point (for armrests that pivot in the horizontal plane, apply the load at the pivot point), for one (1) minute in the outward direction.</p> <p>A functional load applied once shall cause no loss of serviceability.</p>	PASS



Test	Test Description and Requirements	Test Results
14.4.2	<p>Proof Load Apply an initially horizontal pull force of 667 N (150 lbf.) to the load adapter which is a loading device or strap, not greater than 25 mm (1 in.) in horizontal width, shall be attached to the arm so that the load is initially applied horizontally to the armrest structure at the apparent weakest point (for armrests that pivot in the horizontal plane, apply the load at the pivot point), for one (1) minute in the outward direction. A proof load applied once shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.</p>	PASS
15	<p>Backrest Durability Test - Cyclic - Type I A weight of 102 kg (225 lb.) shall be secured in the center of the seat. Apply a 445 N (100 lbf.) total force to the backrest at the specified position at a rate between 10 and 30 cycles per minute. For chairs with backrest widths less than or equal to 406 mm (16 in.) at the height of the loading point, apply the load to the backrest for 120,000 cycles. For chairs with backrest widths greater than 406 mm (16 in.) at the height of the loading point, apply the load to the backrest for 80,000 cycles + 20,000 cycles at the position 102 mm (4 in.) to the right of the vertical centerline + 20,000 cycles at the position 102 mm (4 in.) to the left of the vertical centerline.. There shall be no loss of serviceability. <i>Note: With the backrest at its back stop position, apply a force that is initially 90 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees ± 10 degrees throughout the loading of the backrest.</i></p>	PASS

Annex A: Classification of Chair Types

- **Type I. Tilting chair:** A chair with a seat that tilts with a counterbalancing force. Chairs of this type are typically referred to as synchro-tilt, center-tilt, knee-tilt.
- **Type II. Fixed seat angle, tilting backrest:** A chair that provides a fixed seat angle with a tilting backrest.
- **Type III. Fixed seat angle, fixed backrest:** A chair that provides a fixed seat angle with a fixed backrest. This may include chairs with legs, including sled base chairs.

Remark:

1. For the sample information and pictures, please refer to the following page.



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 中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

SAMPLE INFORMATION AND PICTURES

Weight: 16.10 kg

Overall Dimensions: 725 mm W x 702 mm D x 930~1010 mm H

Other Dimensions: Upper Frame: 660 mm W x 625 mm D;
Under Frame: Base radius 340 mm, base weight 1.60 kg.

Sample as Received



View 1



View 2



View 3

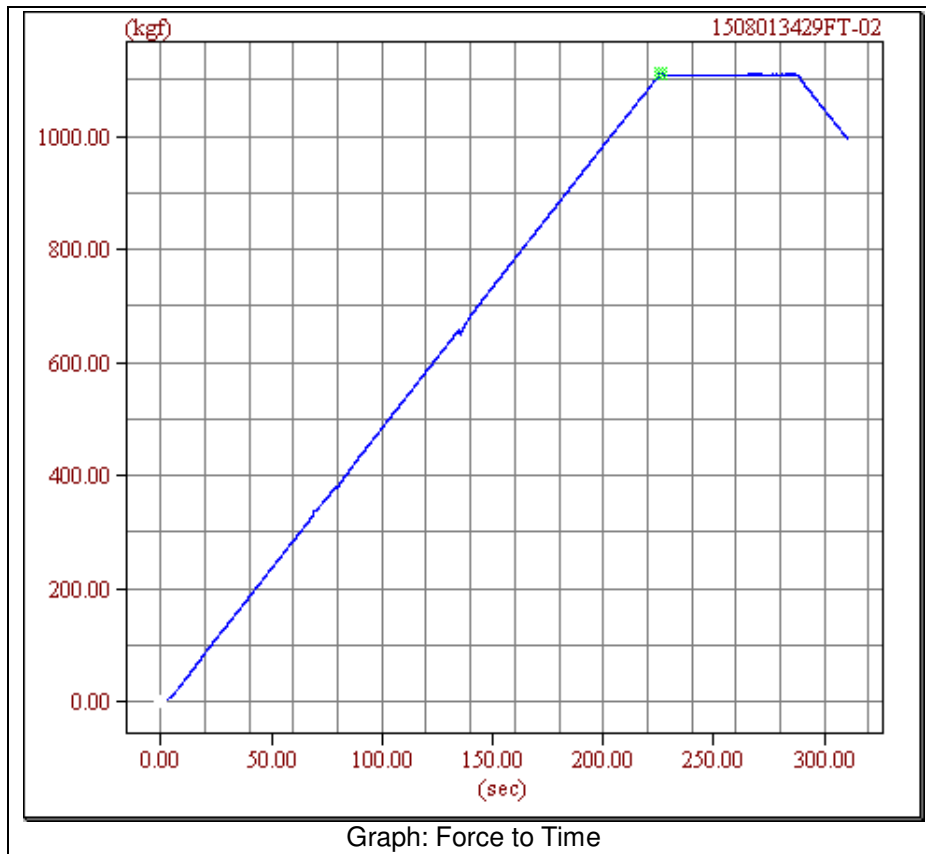


View 4





Test Pictures with Details



End of Report



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