

Test Report

No.: SDHG1509015271FT

Date: Oct.09, 2015

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

Overall Test Result: PASS

Sample overview



Vendor/Client:

ZHONG SHAN SHI SONGLIN FURNITURE CO., LTD
B BLOCK, JINLI INDUSTRIAL ZONEM SANXING ROAD, SANJIAO TOWN, ZHONGSHAN CITY, GUANGDONG PROV., CHINA 528400

GENERAL INFORMATION

Buyer Name: OFFICE DEPOT MAX **GCC Required:** ☐ YES ☒ NO
Vendor Name: ZHONG SHAN SHI SONGLIN FURNITURE CO., LTD
Factory Name / Address: SONGLIN FURNITURE / B BLOCK, JINLI INDUSTRIAL ZONEM SANXING ROAD, SANJIAO TOWN, ZHONGSHAN CITY, GUANGDONG PROV., CHINA 528400
Factory Model # / VPC: SL-D7 **Factory ID#:** 1557
Dep. No.: 25 **Brand Name:** WORKPRO
Country of Origin: CHINA **Destination:** USA&CANADA

SAMPLE INFORMATION

Sample Description: TASK COMMERCIAL CHAIR BLACK
SKU Number: 604924/24858343
UPC Number: /
PO Number: /
Children Product: ☐ YES ☒ NO

TESTING INFORMATION

Test Stage: ☐ PPT ☒ ANNUAL ☐ POST PURCHASE
Test Requested: ☒ PRODUCT ☐ PACKAGING REVIEW ☐ TRANSIT TEST
☐ OTHER TEST: _____
Test Type: ☒ INITIAL ☐ RETEST Previous Report #: /
Revised Report: ☒ NO ☐ YES Reason: /
Protocol(s) Used: Selected tests from OD-FT0001-General Office Chairs(BIFMA X5.1)-US-CAN-V2.1 according to the clients' requirement
Sample Receiving Date: SEP 14, 2015
Testing Period: SEP 14, 2015 TO OCT 09, 2015

TESTING HISTORY

Product Testing & Package Review:

Report #: / **Date Issued:** / **Result:** /

Previous Reports (Any reports issued for this same item within the past 3 years):

Report #	Date Issued	Result	Failure Description
/	/	/	/



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Test Result Summary

TEST ITEMS	TEST RESULTS	COMMENTS
Product Test (Protocol No.: Selected tests from OD-FT0001-General Office Chairs(BIFMA X5.1)-US-CAN-V2.1 according to the clients' requirement)		
PERFORMANCE REQUIREMENTS	PASS	/
Executive Summary 1 for Regulatory Requirement: /		
Executive Summary 2 for Non-Regulatory Requirement: /		

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



Bill Wang
Approved signatory



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SAMPLE INFORMATION AND PICTURES

Weight: 17.40 kg;

Overall Dimensions: 675 mm W x 680 mm D x 975~1065 mm H;

Other Dimensions: Upper frame: 665 mm W x 608~628 mm D;
 Seat Height (Unloaded): 470~560 mm; Seat Height (Loaded): 465~555 mm;
 Seat Depth: 410~430 mm; Seat Width: 460 mm;
 Backrest Height: 500 mm; Backrest Width: min. 390mm, max. 460mm;
 Base radius: 325 mm; Base weight: 1.95 kg.

Chair Type: Type I+III

Sample as Received



View 1 – Sample photo



View 2 – Sample photo



View 3 – Sample photo



View 4 – Sample photo

Test Result Details

Protocol No.: Selected tests from OD-FT0001-General Office Chairs(BIFMA X5.1)-US-CAN-V2.1 according to the clients' requirement

Test Property	Test Method	Test Principle / Requirements	Results
<p>SCOPE: This protocol is applicable for the general-purpose office chairs are normally used in an office environment, e.g. executive/management, task/secretarial, side/guest chairs, stacking chairs, tablet arm chairs and stools.</p> <p>REFERENCE: Where there are no applicable US standards, SGS has chosen the most relevant International, National standards to assess the product safety and performance. For undated references, the latest edition of the referenced document (including any amendments) applies.</p> <p>NOTE: Gas Lift Design: If the gas lift is welded to the seat plate, DO NOT PROCEED WITH TESTING THE PRODUCT, FAIL THE TEST & IMMEDIATELY ISSUE THE TEST REPORT.</p> <p>PERFORMANCE REQUIREMENTS</p> <p>Strenght and durability (Test with reference to ANSI/BIFMA X5.1-2011)</p> <p>The general office chairs are classified as three types in ANSI/BIFMA X5.1-2011. For classification of types and features of chairs, please refer to Annex 1.</p> <p>If a product can be classified as more than one chair type, it shall be tested under all applicable classifications. For example, a chair with a locking tilt mechanism would be classified as both a Type I (when the seat is unlocked) and Type III chair (when the seat is locked).</p> <p>It is not intended that all of the tests in this standard be conducted on a single unit. Please refer to the guide of sample distribution in Annex 2.</p>			
Back Strength Test - Static - Type I (Functional Load)	ANSI/BIFMA X5.1 -2011 Clause 5	No loss of serviceability when 890 N (200 lbs.) is applied for 1 min. Applied 90° to the back at 16 in. above the seat.	PASS
Back Strength Test – Static – Type I (Proof Load)	ANSI/BIFMA X5.1 -2011 Clause 5	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1334 N (300 lbs.) is applied for 1 min. Applied 90° to the back at 16 in. above the seat.	PASS
Back Strength Test – Static – Type II & III (Functional Load)	ANSI/BIFMA X5.1 -2011 Clause 6	No loss of serviceability when 667 N (150 lbs.) is applied for 1 min. Applied 90° to the back at 16 in. above the seat.	PASS
Back Strength Test – Static – Type II & III (Proof Load)	ANSI/BIFMA X5.1 -2011 Clause 6	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1112 N (250 lbs.) is applied for 1 min. Applied 90° to the back at 16 in. above the seat.	PASS
Base Test – Static	ANSI/BIFMA X5.1 -2011 Clause 7	No sudden and major change in the structural integrity under 11,100 N (2500 lbs.) compression for 1 min. The weight is then removed and reapplied for 1 min. The center column may not touch the test platform during load applications.	PASS



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Test Property	Test Method	Test Principle / Requirements	Results
Drop Test – Dynamic (Functional Load)	ANSI/BIFMA X5.1 -2011 Clause 8	No loss of serviceability when 102kg (225 lbs.) weight free falls from 6 in height to the center of the seat.	PASS
Drop Test – Dynamic (Proof Load)	ANSI/BIFMA X5.1 -2011 Clause 8	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 136kg (300 lbs.) weight free falls from 6 in height to the center of the seat.	PASS
Swivel Test – Cyclic	ANSI/BIFMA X5.1 -2011 Clause 9	No loss of serviceability after 60,000 cycles of rotation (360°) under a 113kg (250 lbs.) load on the seat at its max. height. Seat shall then withstand another 60,000 cycles of rotation at its lowest seating position. Total 120,000 cycles.	PASS
Tilt Mechanism Test – Cyclic – Type I & II	ANSI/BIFMA X5.1 -2011 Clause 10	No loss of serviceability after 300,000 cycles under a 102kg (225 lbs.) load to the center of the seat	PASS
Seat Impact Test – Cyclic	ANSI/BIFMA X5.1 -2011 Clause 11.1	No loss of serviceability in 100,000 cycles impact. A weight of 57kg (125 lbs.) free falls onto the seat from 1.2 in. height.	PASS
Front Corner Load Ease Test – Cyclic – Off Center	ANSI/BIFMA X5.1 -2011 Clause 11.2	No loss of serviceability after load each seat front corner with 734N (165 lbs.) for 20,000 cycles, total 40,000 cycles. Note: this test is done after “Impact test” on the same sample.	PASS



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Test Property	Test Method	Test Principle / Requirements	Results
Rear Stability Test for Type III Chairs	ANSI/BIFMA X5.1 -2011 Clause 12.3.1	<p>Place a support fixture made of a 1.5 mm \pm 0.4 mm (0.060 in. \pm 0.015 in.) thick polypropylene, 356 mm (14 in.) wide and 711 mm (28 in.) tall against the chair back so that it approximates the contour of the back. Load the chair with 6 disks (10 kg each). Place the first disk on the seat so it touches the support fixture. As each disk is added to the stack slide it along the lower disk until it contacts the support fixture. Apply a horizontal force to the highest disk. The location of the force application is 6 mm (0.25 in.) from the top of the disk. For chairs with seat height (as measured at the front of the bottom of the lowest disk when all disks are in the chair) less than 710 mm (28.0 in.), calculate the force as follows:</p> <ul style="list-style-type: none"> • $F = 0.1964 (1195 - H)$ Newton. H is the seat height in mm. • $[F = 1.1 (47 - H)$ pounds force.]. H is the seat height in inches. <p>For chairs with seat height equal to or greater than 710 mm (28.0 in.), a fixed force of 93 N (20.9 lbf.) shall be applied.</p> <p>The chair shall not tip over.</p>	<p>PASS</p> <p>H=530mm; F=130.6N;</p> <p>Not tip over.</p>

Test Property	Test Method	Test Principle / Requirements	Results
	ANSI/BIFMA X5.1 -2011 Clause 12.3.2	Rear Stability Test for Type I and II Chairs Place a support fixture made of a 1.5 mm \pm 0.4 mm (0.060 in. \pm 0.015 in.) thick polypropylene, 356 mm (14 in.) wide and 711 mm (28 in.) tall against the chair back so that it approximates the contour of the back. Load the chair with 13 disks. Place the first disk on the seat so it touches the support fixture. As each disk is added to the stack slide it along the lower disk until it contacts the support fixture. If the chair does not tip over and the tilt mechanism does not tilt to its most rearward position (i.e., at its tilt stop) when the disks are placed in the chair, the chair shall also be tested according to 12.3.1 with the chair in the unlocked position. The chair shall not tip over.	PASS
Front Stability	ANSI/BIFMA X5.1 -2011 Clause 12.4	-Test Procedure - Alternative A (This alternative may only be used on chairs that do not have a seat surface that will support the stability loading fixture (i.e., mesh, web or strap seat support surfaces)) Apply a vertical load of 600 N (135 lbf.), through a 200 mm (7.87 in.) diameter disk, the center of which is 60 mm (2.4 in.) from the front center edge of the load-bearing surface of the seat. Apply a horizontal force of 20 N (4.5 lbf.) at the same level of the plane of the top of the seat. The force shall be coincident with the side-to-side centerline of the seat. -Test Procedure - Alternative B Apply a vertical load of 600 N (135 lbf.), by means of the front stability loading fixture at a point 60 mm (2.4 in.) from the front center edge of the load-bearing surface of the chair. Apply a horizontal force of 20 N (4.5 lbf.) at the same level of the plane of the top of the seat. The force shall be coincident with the side-to-side centerline of the seat. The chair shall not tip over as the result of the force application.	PASS



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Test Property	Test Method	Test Principle / Requirements	Results
Arm Strength Test Vertical – Static (Functional Load)	BIFMA X5.1-2011 Clause 13 (modified)	No structural breakage or loss of serviceability when 890 N (200 lb) for 1 min. Is applied. The vertical load is uniformly applied through a 5 In. area at the apparent weakest point.	PASS
(Arm Strength Test Vertical –Static (Proof Load)	BIFMA X5.1-2011 Clause 13 (modified)	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1334 N (300 lb) for 1 min. is applied. The vertical load is uniformly applied through a 5 In. area at the apparent weakest point.	PASS
Arm Strength Test Horizontal – Static (Functional Load)	ANSI/BIFMA X5.1 -2011 Clause 14	No loss of serviceability when 445N (100 lbs.) for 1 min. is applied horizontally outward to the armrest at the most forward point of the armrest.	PASS
Arm Strength Test Horizontal – Static (Proof Load)	ANSI/BIFMA X5.1 -2011 Clause 14	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 667N (150 lbs.) 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	ANSI/BIFMA X5.1 - 2011 Clause 15	No loss of serviceability in 120,000 cycles with a 102kg (225 lbs.) in the center of the seat and a 445N (100 lbf.) 90° to the center of the chair back. For chairs with a back width greater than 406mm (16 in.), test at the center of chair back for 80,000 cycles and then 102mm (4 in.) off-center 40,000 cycles, half to each side.	PASS
Back Durability Test – Cyclic – Type II & III	ANSI/BIFMA X5.1 – 2011 Clause 16	No loss of serviceability in 120,000 cycles with a 102kg (225 lbs.) in the center of the seat and a 334N (75 lbf.) 90° to the center of the chair back. For chairs with a back width greater than 406mm (16 in.), test at the center of chair back for 80,000 cycles and then 102mm (4 in.) off-center 40,000 cycles, half to each side.	PASS
Caster / Chair Base Durability Test For Pedestal Base Chair	ANSI/BIFMA X5.1 - 2011 Clause 17.1	No loss of service after 2,000 cycles over a hard surface with 3 obstacles and 98, 000 cycles over a smooth hard surface without obstacles under a 113kg (250 lbs.) load on the seat. Test stoke is 762mm (30 in.) minimum. The caster should not separate under 22N (5 lbs.) pulling force in line with the caster stem after the cycling test.	PASS



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Test Property	Test Method	Test Principle / Requirements	Results
Caster / Chair Base Durability Test For Chairs with Legs	ANSI/BIFMA X5.1 - 2011 Clause 17.2	No loss of service after 2,000 cycles over a hard surface with 2 obstacles and 98, 000 cycles over a smooth hard surface without obstacles under a 113kg (250 lbs.) load on the seat. Test stoke is 762mm (30 in.) minimum. The caster should not separate under 22N (5 lbs.) pulling force in line with the caster stem after the cycling test.	/ Not applicable
Leg Strength Test – Front Load (Functional Load)	ANSI/BIFMA X5.1 - 2011 Clause 18.3	No loss of serviceability when a force of 334N (75 lbf.) is applied to each front leg individually for 1 minute.	/ Not applicable
Leg Strength Test – Front Load (Proof Load)	ANSI/BIFMA X5.1 - 2011 Clause 18.3	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 503N (113 lbf.) is applied to each front leg individually for 1 minute.	/ Not applicable
Leg Strength Test – Side Load (Functional Load)	ANSI/BIFMA X5.1 - 2011 Clause 18.4	No loss of serviceability when a force of 334N (75 lbf.) is applied once to each front and rear leg individually for 1 minute.	/ Not applicable
Leg Strength Test – Side Load (Proof Load)	ANSI/BIFMA X5.1 - 2011 Clause 18.4	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 503N (113 lbf.) is applied once to the front and rear leg individually for 1 minute.	/ Not applicable
Footrest Static Load Test – Vertical-Functional load (If applicable)	ANSI/BIFMA X5.1 - 2011 Clause 19.4.1	Apply a force F1 of 445 N (100 lbf.) uniformly along a 102 mm (4 in.) distance along the footrest but not greater than 51 mm (2 in.) from the outside edge at the apparent weakest point of the structure for one (1) minute in the vertical downward direction, maintain force F1 and apply an additional force F2 of 445 N (100 lbf.) to the footrest at the opposing position for an additional one (1) minute. There shall be no loss of serviceability or sudden loss of footrest height.	/ Not applicable



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Footrest Static Load Test – Vertical-Proof load (If applicable)	ANSI/BIFMA X5.1 - 2011 Clause 19.4.3	Apply a force of 1334 N (300 lbf.) uniformly along a 102 mm (4 in.) distance along the footrest but not greater than 51 mm (2 in.) from the outside edge at the apparent weakest point of the structure for one (1) minute in the vertical downward direction. The load applied once shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.	/ Not applicable
Footrest Durability Test – Vertical – Cyclic (If applicable)	ANSI/BIFMA X5.1 - 2011 Clause 20	No loss of serviceability after 50,000 cycles of a 890N (200 lbf) load vertical along 102mm (4 in.) length of the footrest at the apparent weakest point of the structure.	/ Not applicable
Arm Durability Test – Cyclic	ANSI/BIFMA X5.1 - 2011 Clause 21	No structural breakage or loss of serviceability when a force of 400N (90 lbf.) is applied to each arm at a 10° angle $\pm 1^\circ$ for 60,000 cycles	PASS
Out Stop Tests For Chairs With Manually Adjustable Seat Depth (If applicable)	ANSI/BIFMA X5.1 - 2011 Clause 22	Place 70 kg (154 lb.) rigid mass in the center of the seat, 25 kg (55lbf.) hanging weight shall be held at its most rearward position, then released, permitting it to move forward rapidly and impact the out stops. Repeat for a total of 25 cycles. There shall be no loss of serviceability to the unit.	PASS
Tablet Arm Static Load Test (If applicable)	ANSI/BIFMA X5.1 - 2011 Clause 23	Apply a load of 68 kg (150 lb.) through a 203 mm diameter area 25 mm from the edge of the surface at its apparent weakest point, for five (5) minutes. Shall cause no sudden and major change in the structural integrity of the chair at the first load, and after performing the test, the tablet arm must allow egress form the unit; other losses of serviceability are acceptable.	/ Not applicable
Tablet Arm Load Ease Test – Cyclic (If applicable)	ANSI/BIFMA X5.1 - 2011 Clause 24	A 343 N (77 lb.) bag shall be raised until the entire weight is off the tablet surface and then eased (without impact) onto the surface, repeat for a total of 100,000 cycles without loss of serviceability to the unit.	/ Not applicable


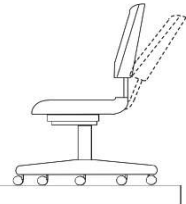



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Annex 1: Types of Chairs

Type I. Tilting chair A chair with a seat and backrest that tilt (either in unison or in synchronization) with a counterbalancing force. Chairs of this type are typically referred to as synchro-tilt, center-tilt, knee-tilt, etc.	
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.	

Annex 2: Guide of sample distribution

Test	Type I+ II+III	Type I/II+III	Type III
Backrest Strength Test - Static - Type I	Sample 1	Sample 1	/
Backrest Strength Test - Static - Type II and III	Sample 2 & 3	Sample 2	Sample 1
Base Test - Static	Additional base	Additional base	Additional base
Drop Test - Dynamic	Sample 3	Sample 3	Sample 1
Swivel Test - Cyclic	Sample 1	Sample 1	/
Tilt Mechanism Test - Cyclic	Sample 3	Sample 3	/
Seating Durability Test - Cyclic	Sample 2	Sample 2	Sample 2
Stability Tests	Sample 1	Sample 1	Sample 1
Arm Strength Test - Vertical - Static	Sample 3	Sample 3	Sample 2
Arm Strength Test - Horizontal - Static	Sample 3	Sample 3	Sample 2
Backrest Durability Test - Cyclic - Type I	Sample 4	Sample 4	/
Backrest Durability Test - Cyclic - Type II and Type III	Sample 5 & 6	Sample 5	Sample 3
Caster/Chair Base Durability Test - Cyclic	Additional base	Additional base	Additional caster
Leg Strength Test - Front and Side Application	/	/	Sample 1
Footrest Static Load Test - Vertical	Sample 1	Sample 1	Sample 3
Footrest Durability Test - Vertical - Cyclic	Sample 2	Sample 2	Sample 1
Arm Durability Test - Cyclic	Sample 4	Sample 4	Sample 1
Out Stop Test for Chairs with Manually Adjustable Seat Depth	Sample 1	Sample 1	/
Tablet Arm Chair Static Load Test	/	/	Sample 3
Tablet Arm Chair Load Ease Test - Cyclic	/	/	Sample 1

End of Report