

No.: SDHL1608014864FT

Date:Sep.13, 2016

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ZHONG SHAN SHI SONGLIN FURNITURE CO. LTD B BLOCK, JINLI INDUSTRIAL ZONE SANXING ROAD, 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
Buyer Item No.	: SL-H14
Manufacturer	: ZHONG SHAN SHI SONGLIN FURNITURE CO. LTD
Sample Receiving Date	: Aug.11, 2016
Sample Resubmission Date	: Sep.08, 2016
Test Performing Date	: Aug.11, 2016 to Sep.13, 2016

Test Result Summary

Test(s) Requested	Result(s)
Partial test of OD-FT0001.01-V7.0	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





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TESTS AND RESULTS

Test Conducted:

Partial test of OD-FT0001.01-V7.0-Heavy Duty Office Chair(400 lbs)(US & Canada)

No. of Sample:

2 piece(s). For more sample information and pictures, please refer to the following page.

Chair Type: Type I, III.

Test Property	Test Method	Requirements	Test Results
PERFORMANCE REQUI			
Backrest strength test - static - type i - functional load	BIFMA X5.11-2015 Clause 6(mod.)	No loss of serviceability when 1423 N (320 lb) is applied for 1 min. Applied to 90° from back at 16 in above the seat. If the back is less than 17.8 in, the load is applied at the top of the back.	PASS
Backrest strength test - static - type i - proof load	BIFMA X5.11-2015 Clause 6(mod.)	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 2002 N (450 lb) is applied for 1 min. applied to 90° from back at 16 in above the seat. If the back is less than 17.8 in, the load is applied at the top of the back.	PASS
Backrest strength test - static - type ii - functional load	BIFMA X5.11-2015 Clause 7(mod.)	[Nontilt or adjustable seat - tilt back] No loss of serviceability when 1068 N (240 lb) is applied for 1 min. applied to 90° from back at 16 in above the seat. If the back is less than 17.8 in, the load is applied at the top of the back.	Not applicable
Backrest strength test - static - type ii - proof load	BIFMA X5.11-2015 Clause 7(mod.)	[Nontilt or adjustable seat - tilt back] No sudden and major change in the structural integriy (loss of serviceability is acceptable) when 1779 N (400 lb) is applied for 1 min. applied to 90° from back at 16 in above the seat. If the back is less than 17.8 in, the load is applied at the top of the back.	Not applicable
Backrest strength test - static - type iii - functional load	BIFMA X5.11-2015 Clause 7(mod.)	[Nontilt or adjustable seat - fixed, flex, or manually adjustable back] No loss of serviceability when 1068 N (240 lb) is applied for 1 min. applied to 90° from back at 16 in above the seat. If the back is less than 17.8 in, the load is applied at the top of the back.	PASS



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Test Property	Test Method	Requirements	Test Results
Backrest strength test - static - type iii - proof load	BIFMA X5.11-2015 Clause 7(mod.)	[Nontilt or adjustable seat - fixed, flex, or manually adjustable back] No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1779 N (400 lb) is applied for 1 min. applied to 90° from back at 16 in above the seat. If the back is less than 17.8 in, the load is applied at the top of the back.	PASS
Base test - static	OD's requirement	[Pedestal base] No sudden and major change in the structural integrity after 11,785 N (2650 Ib) 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. For plastic base: Record pass result and continue to increase the force until damage the base. Record the force value.	PASS
Drop test - dynamic - functional load	BIFMA X5.11-2015 Clause 8 (mod.)	No loss of serviceability when 163kg (360 lb) free falls from 6 ln. height to the center of the seat.	PASS
Drop test - dynamic - proof load	BIFMA X5.11-2015 Clause 8 (mod.)	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 204kg (450 lb) free falls from 6 ln. height to the center of the seat.	PASS
Swivel test - cyclic	BIFMA X5.11-2015 Clause 9	No loss of serviceability after 60,000 cycles of rotation (360 degrees) under a 181kg(400 lbs)load on the seat at max. Height, seat shall then withstand another 60,000 cycles of rotation at its lowest seating position. Note: all chairs must withstand 120,000 cycles	PASS
Tilt mechanism test - cyclic	BIFMA X5.11-2015 Clause 10 (mod.)	[Type I & II Chairs] No loss of serviceability in 300,000 cycles under a 163kg (360 lb) load to the center of the seat Stop the test for every 30,000 cycles, and operate the tilt-lock wire control for 1,000 cycles, then continue the test. (total opearate 10,000 cycles) For 10 years warranty products, double the cycles (2,000 cycles for each breaking & totally 20,000 cycles) for all wire control testing.	PASS



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Test Property	Test Method	Requirements	Test Results
Test Property Seating durability test – cyclic	Test Method BIFMA X5.11-2015 Clause 11	This is a two-part test. The impact test and front corner load-ease tests must be run sequentially for this evaluation. Impact test – cyclic: 100,000 cycles of 91kg (200 lbf) weight drop from 1 in 1.2in (30mm) above the uncompressed surface of the seat. Stop the test for every 12,500 cycles, and operate the height-adjustable wire control for 1,000 cycles, then continue the test. (total opearate 8,000 cycles) For 10 years warranty products, double	Test Results
		the cycles (2,000 cycles for each breaking & totally 16,000 cycles) for all wire control testing. Front corner load-ease test - cyclic - off- center: 20,000 cycles to both front seat corners from a 1334N (300 lb) load positioned flush to both outer edges applied without impact for a total of 40,000 cycles	PASS
		Stop the test for every 20,000 cycles (total), and operate the height- adjustable wire control for 1,000 cycles, then continue the test. (total opearate 2,000 cycles) For 10 years warranty products, double the cycles (2,000 cycles for each breaking & totally 4,000 cycles) for all wire control testing.	
		No structural breakage or breakage or loss of serviceability after completion of both the impact and load-ease tests.	



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Test Property	Test Method	Requirements	Test Results
Stability test - rear	BIFMA X5.11-2015 Clause 12 (mod.)	For type III chair: Load the chair with 6 disks (16kg/each). As each disk is added to the stack assure that it is placed against the support as shown in Figure 12a, 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 • Seat height<710mm: F = 0.1964 (1195 - H) N.(H in mm) • Seat height>710mm: F= 93N/20.9lbf For type I & II chair: Load the chair with 13 disks (16kg/each). As each disk is added to the stack, assure that it is placed against the support as shown in Figure 12b.	Type III: PASS H=520 mm F _H =132.6 N F _{max} >250 N Type I: PASS
Stability test - dynamic - front	BIFMA X5.11-2015 Clause 12 (mod.)	The chair is obstructed with a 1/2 In. obstruction to the chair casters or feet. A downward load of 961N (216 lb) is centered 2.4 In. from the seat front center edge. The seat shall withstand a 20N (4.5 Lbf). horizontally from the front seat edge without tipping	PASS
Arm strength test - vertical - static - functional load	BIFMA X5.11-2015 Clause 13 (mod.)	No loss of serviceability when 1423 N (320 lb) for 1 min. Is applied. The vertical load is uniformly applied through a 5 ln. area at the apparent weakest point.	PASS
Arm strength test - vertical - static - proof load	BIFMA X5.11-2015 Clause 13 (mod.)	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 2001 N (450 lb) for 1 min. is applied. The vertical load is uniformly applied through a 5 In. area at the apparent weakest point. For plastic arm: Record pass result and continue to increase the force until damage the arm. Record the force value. If the arm does not damage until 250kg, record(Did not break under 250 kg)	PASS
Arm strength test - horizontal - static - functional load	BIFMA X5.11-2015 Clause 14 (mod.)	No loss of serviceability when 712 N (160 lb) for 1 min. Is applied horizontally outward to the armrest at the most forward point of the armrest.	PASS



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Test Property	Test Method	Requirements	Test Results
Arm strength test - horizontal - static - proof load	BIFMA X5.11-2015 Clause 14 (mod.)	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1068 N (240 lb) for 1 min. is applied horizontally outward to the armrest at the most forward point of the armrest.	PASS
Backrest durability test - cyclic - type i	BIFMA X5.11-2015 Clause 15 (mod.)	No loss of serviceability in 120,000 cycles with 163 kg (360 lb) in the center of the seat and 712 N(160 lbf.) applied to the chair back at 90° to the plane of the back. For chairs with a back width greater than 16 in at the height of loading perform 80,000 cycles. Reposition the load 25% backrest width to the right of the vertical centerline. If using a cable pulley system, 30 in. minimum from the attachment point to the pulley. Apply the load for 20,000 cycles. Then, reposition the load 25% backrest width to the left of the vertical centerline. If using a cable pulley system, 30 in. minimum from the attachment point to the pulley. Apply the load for 20,000 cycles. (For chairs with tilt mechanisms that lock see Sect. 4 for classification change.) For chairs with a back width less than 16 in, stop the test for every 12,000 cycles, and operate the tilt-lock wire control for 1,000 cycles, then continue the test. (total opearate 10,000 cycles) For chairs with a back width greater than 16 in, stop the test for every 10,000 cycles(force applied in the middle) / 20,000 cycles (force applied at 2 sides) and operate the tilt-lock wire control for 1,000 cycles, then continue the test. (total opearate 10,000 cycles) For 10 years warranty products, double the cycles (2,000 cycles for each breaking & totally 20,000 cycles) for all wire control testing.	PASS



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Test Property	Test Method	Requirements	Test Results
Backrest durability test - cyclic - type ii and iii	BIFMA X5.11- 2015 Clause 16 (mod.)	No loss of serviceability in 120,000 cycles with a 163 kg (360 lb) in the center of the seat and 534 N (120 lbf) applied to the chair back at 90° to the plane of the back. For chairs with a back width greater than 16 in at the height of loading perform 80,000 cycles. Reposition the load 25% backrest width to the right of the vertical centerline. If using a cable pulley system, 30 in. minimum from the attachment point to the pulley. Apply the load for 20,000 cycles. Then, reposition the load 25% backrest width to the left of the vertical centerline. If using a cable pulley system, 30 in. minimum from the attachment point to the pulley. Apply the load for 20,000 cycles. For chairs with a back width less than 16 in, stop the test for every 12,000 cycles, and operate the tilt-lock wire control for 1,000 cycles, then continue the test. (total opearate 10,000 cycles) For chairs with a back width greater than 16 in, stop the test for every 10,000 cycles(force applied in the middle) / 20,000 cycles (force applied at 2 sides) and operate the tilt-lock wire control for 1,000 cycles, then continue the test. (total opearate 10,000 cycles) For 10 years warranty products, double the cycles (2,000 cycles for each breaking & totally 20,000 cycles) for all	PASS
Pedestal base chair - caster / chair base durability test cyclic	BIFMA X5.11-2015 Clause 17	wire control testing. 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 (30 ln. forward / backward stroke min.) Under a 181kg (400lbs) load in the seat. After completion of the cycling, No part of the caster shall separate from the chair as a result of the application of the 22 N (5 lbf.) force.	PASS



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Test Property	Test Method	Re	quirements	Test Results
Arm Durability Test - Cyclic	BIFMA X5.11-2015 Clause 19 (mod.)	serviceability wh (144 lbf.) is appl degree angle +/ cycles	eakage or loss of nen a force of 641 N lied to each arm at a 10 - 1 degree for 60,000	PASS
Out Stop Tests for Chairs with Manually Adjustable Seat Depth	BIFMA X5.11-2015 Clause 20 (mod.)	Place a 118 kg (261 lb.) rigid mass in the center of the seat. The opposite end of the cable shall extend in line forward from the seat and in line with the plane of the seat movement to a pulley and then downward to an attached weight of 40 kg (88 lb.). then released, permitting it to move forward rapidly and impact the out stops for 25 cycles.		PASS



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SAMPLE INFORMATION AND PICTURES

Weight: 25.10 kg

Overall Dimensions: 780 mm W x 785 mm D x 1065~1155 mm H

Other Dimensions: Base radius 355 mm

Sample as Received











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End of Report



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