

Test Report

No.: SDHL1909015993FT

Date: Sep.25, 2019

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FOSHAN ZHONG MENG SHENG YE FURNITURE CO., LTD
NO.6, GAOJIAO NANFANG INDUSTRIAL DISTRICT, LONGJIANG TOWN,
SHUNDE AREA, FOSHAN CITY, GUANGDONG PROVINCE, CHINA.

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

Sample Description : OFFICE CHAIR
Supplier Item No. : TOP ZM-433B
Manufacturer : FOSHAN ZHONG MENG SHENG YE FURNITURE CO., LTD
Supplier : FOSHAN ZHONG MENG SHENG YE FURNITURE CO., LTD
Country of Destination : USA
Sample Receiving Date : Sep.02, 2019
Test Performing Date : Sep.04, 2019 to Sep.24, 2019

Test Result Summary

Test(s) Requested	Result(s)
Clause 5, 7, 10.3, 14 and Base Test – Static of ANSI/BIFMA X5.1-2017 (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



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TESTS AND RESULTS

Test Conducted:

Clause 5, 7, 10.3, 14 and Base Test – Static of ANSI/BIFMA X5.1-2017 General-Purpose Office Chairs – Tests.

No. of Sample:

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

Chair Type: Type I, III.

Test and Requirements	Test Results
5 Backrest Strength Test - Static - Type I and II	
5.4.1 Functional Load There shall be no loss of serviceability to the chair when 667 N (150 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 70 degrees $\pm$ 10 degrees to the plane of the backrest. The force is not intended to be maintained at 70 degrees $\pm$ 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 1001 N (225 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 70 degrees $\pm$ 10 degrees to the plane of the backrest. The force is not intended to be maintained at 70 degrees $\pm$ 10 degrees throughout the loading of the backrest.	PASS
7 Drop Test - Dynamic	
7.4.1 Functional Load Test There shall be no loss of serviceability when a test bag weighing 102 kg (225 lb.) is free fell from 152 mm (6 in.) above the uncompressed seat to the specified position on seat. Remove the bag, and set height to its lowest position and repeat the test for chairs with seat height adjustment features.	PASS
7.4.2 Proof Load Test There shall be no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable when a test bag weighing 136 kg (300 lb.) is free fell from 152 mm (6 in.) above the uncompressed seat to the specified position on seat. Remove the bag, and set height to its lowest position and repeat the test for chairs with seat height adjustment features.	PASS
10 Seating Durability Tests – Cyclic	
10.3 Impact Test There shall be no loss of serviceability to the chair after a test bag weighing 57kg (125lbs.) is free fell from 36 mm (1.4 in.) above the uncompressed seat to the specified position on seat for 100,000 cycles. 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. <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 $\pm$ 6 mm (2 in. $\pm$ 0.25 in.). Any additional foam added to the top of the seat shall have a 25% Indentation Force Deflection (IFD) of 200 N $\pm$ 22 N (45 lbf. $\pm$ 5 lbf.). Flexible seat surfaces (i.e., mesh, flexible plastic, etc.) are not considered cushioning materials.</i>	PASS



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Test and Requirements	Test Results
14 Backrest Durability Test - Cyclic - Type I A weight of 109 kg (240 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>	PASS
Appendix C 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

Remark:

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



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SAMPLE INFORMATION AND PICTURES

Weight: 13.30 kg

Overall Dimensions: 695 mm D x 720 mm W x 938~1052 mm H

Other Dimensions: Base radius 345 mm

Sample as Received



View 1



View 2



View 3



View 4



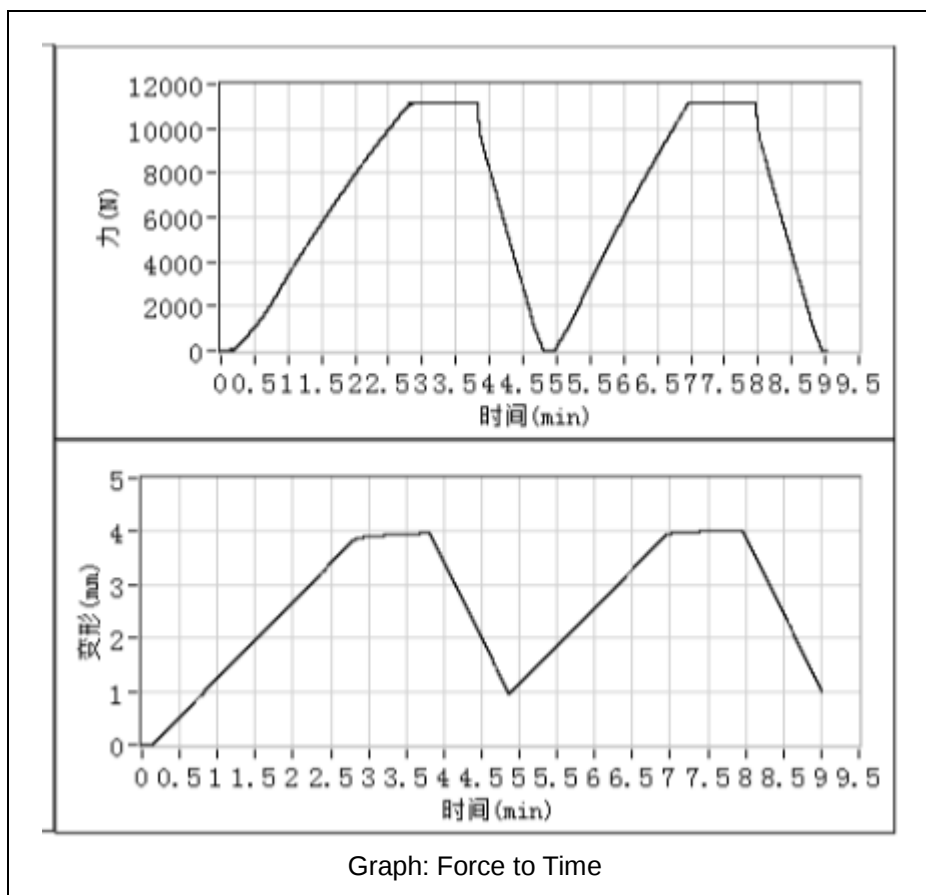
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Test Pictures with Details



Graph: Force to Time

End of Report

