

Sample Description : OFFICE CHAIR
Item No. : M-57

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date : May 09, 2023
Sample Resubmission Date : May 24, 2023
Test Performing Date : May 09, 2023 to May 30, 2023
Test Performed : Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
1	Backrest Strength Test - Static - Type I and II, Drop Test – Dynamic, Arm Strength Test - Vertical – Static, Arm Strength Test - Horizontal – Static and Base Test – Static of ANSI/BIFMA X5.1-2017 (R2022)	PASS	/
For further details, please refer to the following page(s)			

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

Marco Leung

Marco Leung
Authorized Signatory

scan to see the report



SDHL2305007654FT



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TESTS AND RESULTS
Test Conducted:

Backrest Strength Test - Static - Type I and II, Drop Test – Dynamic, Arm Strength Test - Vertical – Static, Arm Strength Test - Horizontal – Static and Base Test – Static of ANSI/BIFMA X5.1-2017 (R2022) General-Purpose Office Chairs.

No. of Sample:

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

Test and Requirements	Test Results
5 Backrest Strength Test - Static - Type I and II	
Functional Load Force: 667 N (150 lbf.) for one minute. Acceptance level: There shall be no loss of serviceability to the chair.	PASS
Proof Load Force: 1001 N (225 lbf.) for one minute. Acceptance level: There shall be no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable.	PASS
7 Drop Test – Dynamic	
Functional Load Test A test bag weighting 102 kg (225 lb.) shall be raised 152 mm (6 in.) above the uncompressed seat and released one time (For chairs with seat height adjustment features, tested both in highest and lowest position). Acceptance level: There shall be no loss of serviceability.	PASS
Proof Load Test A test bag weighting 136 kg (300 lb.) shall be raised 152 mm (6 in.) above the uncompressed seat and released one time (For chairs with seat height adjustment features, tested both in highest and lowest position). Acceptance level: There shall be no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable.	PASS
12 Arm Strength Test - Vertical – Static	
Functional Load Force: 750 N (169 lbf.) for one minute. Acceptance level: 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.	PASS
Proof Load Force: 1125 N (253 lbf.) for 15 seconds. Acceptance level: 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.	PASS
13 Arm Strength Test - Horizontal – Static	
Functional Load Force: 445 N (100 lbf.) for one minute in the outward direction. Acceptance level: A functional load applied once shall cause no loss of serviceability.	PASS
Proof Load Force: 667 N (150 lbf.) for 15 seconds in the outward direction. Acceptance level: A proof load applied once shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.	PASS



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Test and Requirements	Test Results
Appendix C Base Test – Static A force of 11,120 N (2500 lbf.) shall be applied for one minute. Remove the force. Apply a second force of 11,120 N (2500 lbf.) for one minute. Acceptance level: 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.	PASS

Remark:

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



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SAMPLE INFORMATION AND PICTURES

Weight: 17.40 kg

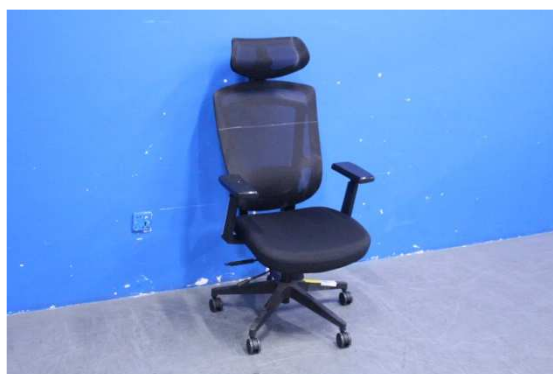
Overall Dimensions: 721 mm L x (665~694) mm D x (1234~1322) mm H

Other Dimensions: Base radius 345 mm

Sample as Received



View 1



View 2



View 3



View 4

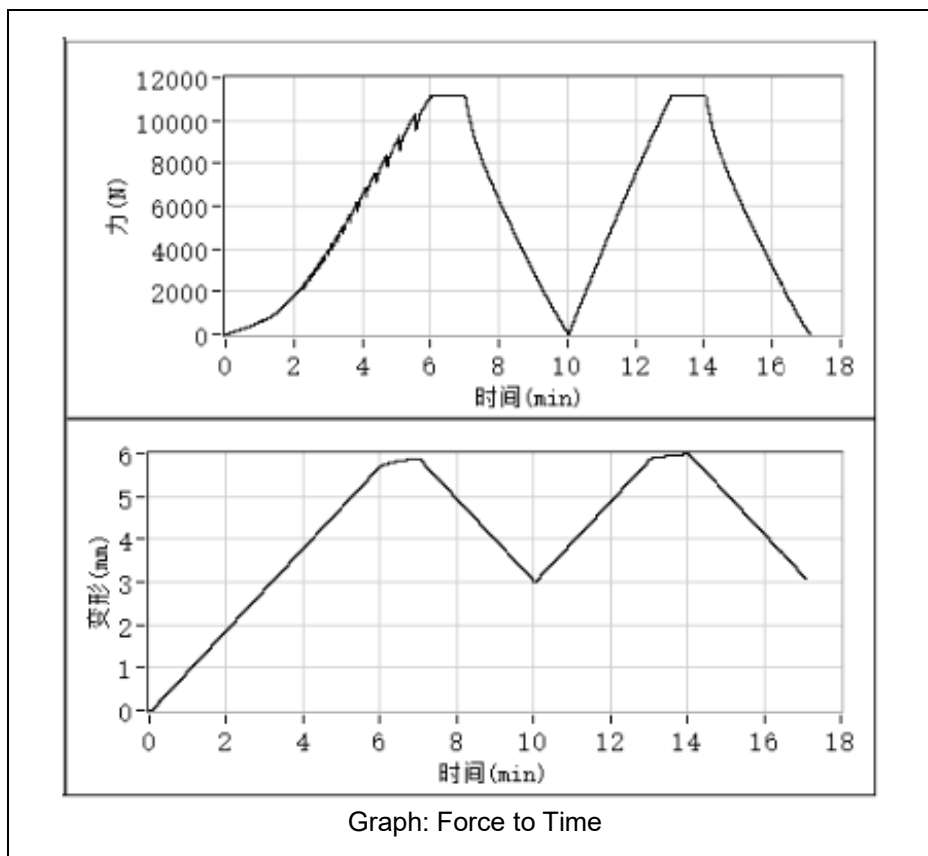


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Test Pictures with Details



Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.

End of Report



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