

SUNIVER FURNITURE CO.,LTD
 SHIJIANG INDUSTRIAL ZONE,SHATOU,JIUJIANG TOWN,FOSHAN CITY,GUANGDONG PROVINCE

Sample Description : WAVE HEAVY DUTY CHAIR
 Manufacturer : SUNIVER FURNITURE CO.,LTD
 Supplier : SUNIVER FURNITURE CO.,LTD

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 : Oct 10, 2023
 Test Performing Date : Oct 11, 2023 to Oct 30, 2023
 Test Performed : Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
1	ANSI/BIFMA X5.11-2015 (R2020)	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

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 中国·广东·佛山市顺德区大良街道办事处五沙社区居民委员会顺和南路1号欧洲工业园一号厂房首层、二层 邮编: 528300 t (86-757)22805888 sgs.china@sgs.com

TESTS AND RESULTS

Test Conducted:

ANSI/BIFMA X5.11-2015 (R2020) General-Purpose Large Occupant Office Chairs.

No. of Sample:

5 pieces. For more sample information and pictures, please refer to the following page.

Chair Type:

- Type I. Tilting chair
- Type II. Fixed seat angle, tilting backrest
- Type III. Fixed seat angle, fixed backrest

Test and Requirements	Test Results
5 Seat Width Measurement The seat width shall be 560 mm (22 in.) minimum.	PASS
6 Backrest Strength Test - Static - Type I	
Functional Load Force: 890 N (200 lbf.) for one minute. Acceptance level: There shall be no loss of serviceability to the chair.	PASS
Proof Load Force: 1,334 N (300 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 Backrest Strength Test - Static - Type II & III	
Functional Load Force: 667 N (150 lbf.) for one minute. Acceptance level: A functional load applied once shall cause no loss of serviceability to the chair.	PASS
Proof Load Force: 1,112 N (250 lbf.) for one minute. Acceptance level: A proof load applied once shall cause no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable.	PASS
8 Drop Test – Dynamic	
Functional Load Test 113 kg (250 lb.) shall be raised 152 mm (6 in.) above the uncompressed seat and released one time. Acceptance level: There shall be no loss of serviceability.	PASS
Proof Load Test 159 kg (350 lb.) shall be raised 152 mm (6 in.) above the uncompressed seat and released one time. Acceptance level: There shall be no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable.	PASS
9 Swivel Test – Cyclic Load on seat: 181 kg (400 lb.) Cycles: 120,000 Acceptance level: There shall be no loss of serviceability.	PASS
10 Tilt Mechanism Test – Cyclic Load on seat: 159 kg (350 lb.) Cycles: 300,000 Acceptance level: There shall be no loss of serviceability to the tilt mechanism.	PASS



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 中国·广东·佛山市顺德区大良街道办事处五沙社区居民委员会顺和南路1号欧洲工业园一号厂房首层、二层 邮编: 528300 t (86-757)22805888 sgs.china@sgs.com

Test and Requirements	Test Results
11 Seating Durability Tests – Cyclic	
11.3 Impact Test Weight: 91 kg (200 lb.) Drop height: 30 mm (1.2 in.) above the uncompressed surface on the seat Cycles: 100,000 Acceptance level: There shall be no loss of serviceability to the chair.	PASS
11.4 Front Corner Load-Ease Test – Cyclic – Off-center Force: 1,334 N (300 lbf.) Cycles: 40,000 Acceptance level: There shall be no loss of serviceability to the chair.	PASS
12 Stability Tests	
12.3.1 Rear Stability Test for Type III Chairs Load the chair with 6 disks. • 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. 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. Acceptance level: The chair shall not tip over.	PASS
12.3.2 Rear Stability Test for Type I and II Chairs Load the chair with 13 disks. Acceptance level: The chair shall not tip over.	PASS
12.4 Front Stability Load 79 kg (175 lb.) on 60 mm (2.4 in.) from the front center edge and a horizontal outward force of 20 N (4.5 lbf.) applied. Acceptance level: The chair shall not tip over as the result of the force application.	PASS
13 Arm Strength Test - Vertical – Static	
Functional Load Force: 890 N (200 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: 1,334 N (300 lbf.) for one minute. 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
14 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 one minute 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
15 Backrest Durability Test - Cyclic - Type I	
Weight on seat: 159 kg (350 lb.) Load on backrest: 445 N (100 lbf.) Cycles: 120,000 Acceptance level: There shall be no loss of serviceability.	PASS



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Test and Requirements	Test Results
16 Backrest Durability Test - Cyclic - Type II and III Weight on seat: 159 kg (350 lb.) Load on backrest: 334 N (75 lbf.) Cycles: 120,000 Acceptance level: There shall be no loss of serviceability.	PASS
17 Caster/Chair Base Durability Test - Cyclic	
17.1 Caster/Chair Base Durability Test for Pedestal Base Chairs Load on chair: 181 kg (400 lb.) Stroke: 762±50 mm (30±2 in.) of travel Cycles: 2,000 cycles over the obstacles and then 98,000 cycles without obstacles. Acceptance level: There shall be no loss of serviceability. No part of the caster shall separate from the chair as a result of the application of the 22 N (5 lbf.) force.	PASS
17.2 Caster/Chair Frame Durability Test for Non-pedestal Chairs with Casters Load on chair: 181 kg (400 lb.) Stroke: 762±50 mm (30±2 in.) of travel Cycles: 2,000 cycles over the obstacles and then 98,000 cycles without obstacles. Acceptance level: There shall be no loss of serviceability. No part of the caster shall separate from the chair as a result of the application of the 22 N (5 lbf.) force.	N/A
18 Leg Strength Test - Front and Side Application	
18.3 Front Load Test	
Functional Load Test Force: 445 N (100 lbf.) for one minute. Acceptance level: Functional load(s) applied once in each direction shall cause no loss of serviceability.	N/A
Proof Load Test Force: 667 N (150 lbf.) for one minute. Acceptance level: Proof load(s) applied once each direction shall cause no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable.	N/A
18.4 Side Load Test	
Functional Load Test Force: 445 N (100 lbf.) for one minute. Acceptance level: Functional load(s) applied once in each direction shall cause no loss of serviceability.	N/A
Proof Load Test Force: 667 N (150 lbf.) for one minute. Acceptance level: Proof load(s) applied once each direction shall cause no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable.	N/A
19 Arm Durability Test – Cyclic Force: 444 N (100 lbf.) to each arm initially at a 10 degrees ± 1 degree Cycles: 60,000 Acceptance level: There shall be no loss of serviceability to the chair.	PASS
20 Out Stop Tests for Chairs with Manually Adjustable Seat Depth Mass on seat: 74 kg (163 lb.) Downward weight: 25 kg (55 lb.) Acceptance level: There shall be no loss of serviceability to the unit.	PASS



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Test and Requirements	Test Results
21 Tablet Arm Chair Static Load Test Load: 68 kg (150 lb.) for one minute Acceptance level: The load applied once shall cause no sudden and major change in the structural integrity of the chair. After performing the test, the tablet arm must allow egress from the unit; other losses of serviceability are acceptable.	N/A
22 Tablet Arm Chair Load Ease Test – Cyclic Load: 25 kg (55 lb.) Cycles: 100,000 Acceptance level: There shall be no loss of serviceability to the unit.	N/A
23 Structural Durability Test – Cyclic Weight on seat: 159 kg (350 lb.) Horizontal force: 444 N (100 lbf.) Cycles: 50,000 Acceptance level: There shall be no loss of serviceability to the unit.	N/A

Remark:

1. N/A – Not applicable;
2. For the sample information and pictures, please refer to the following page.



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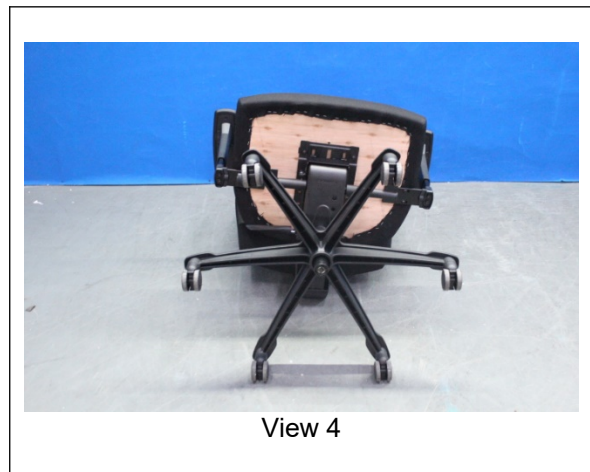
SAMPLE INFORMATION AND PICTURES

Weight: 30.70 kg

Overall Dimensions: (720~813) mm D x 813 mm W x (1205~1580) mm H

Other Dimensions: Base radius 380 mm

Sample as Received



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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