WENCHEN FURNITURE LIMITED
NO.1 EAST TANDONG DA DAO, LONGJIANG, SHUNDE, FOSHAN, GUANGDONG, CHINA

Sample Description	:	OFFICE HEAVY DUTY TASK CHAIR
Item No.	:	T8144
Manufacturer	:	WENCHEN FURNITURE LIMITED

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.

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Sample Receiving Date	:	Nov 18, 2024
Sample Resubmission Date	:	Jan 16, 2025
Test Performing Date	:	Nov 19, 2024 to Feb 21, 2025
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), excluding Seat Width Measurement	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

Scan to see the report
SDHL241102207401FT
Verification:
check.sgsonline.com.cn

Marco Leung
Authorized Signatory

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TESTS AND RESULTS

Test Conducted:
ANSI/BIFMA X5.11-2015 (R2020) General-Purpose Large Occupant Office Chairs, excluding Seat Width Measurement.

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.	N/R
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

SGS-CSTC Standards Technical Services (China) Co., Ltd. Shunde Branch Hardware
检验检测专用章 Inspection & Testing Services

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Test and Requirements	Test Results
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
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

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Test and Requirements	Test Results
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
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

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Test and Requirements	Test Results
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
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; N/R – Not Requested; N/P – Not provided;
2. For the sample information and pictures, please refer to the following page.

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SAMPLE INFORMATION AND PICTURES

Weight: 22.5 kg

Overall Dimensions: 710 mm W x (685~720) mm D x (1100~1290) mm H

Other Dimensions: /

Sample as Received

View 1

View 2

View 3

View 4

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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