



Test Report

No.: SHHL250301462201FT

Date: APR. 01, 2025

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ZENITH (SHANGHAI) HIGH-TECH CO., LTD
L1, BLDN 2, 1788 HANGTANG RD, JINHUI TOWN, FENGXIAN, SHANGHAI 201405 CHINA

Sample Description : Basis

Source of Sample : SENT BY CLIENT.
Sample Receiving Date : MAR. 21, 2025
Testing Period : MAR. 21, 2025 TO APR. 01, 2025

Test Requested	Result
ANSI/BIFMA X5.1-2017 (R2022): GENERAL-PURPOSE OFFICE CHAIR- AMERICAN NATIONAL STANDARD FOR OFFICE FURNITUR	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Arron Lou
Authorized Signatory



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Test Conducted:

ANSI/BIFMA X5.1-2017 (R2022): General-Purpose Office Chair– American National Standard For Office Furniture

Testing Condition : All the physical test is carry out in indoor ambient.

Nos. of Specimen : 3 pcs.

Type of Chair : Type III

Test Result : Pass

Test Property	Test Method	Test Principle / Requirements	Results
Back Strength Test- Static -Type I & II (Functional Load)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 5	No loss of serviceability when 667 N (150 lbs.) is applied for 1 min. Applied 70° to the back at 16 in. above the seat.	N/A See note 1
Back Strength Test- Static -Type I & II (Proof Load)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 5	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1001 N (225 lbs.) is applied for 1 min. Applied 70° to the back at 16 in. above the seat.	N/A See note 1
Back Strength Test – Static – Type III (Functional Load)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 6	No loss of serviceability when 667 N (150 lbs.) is applied for 1 min. Applied 90° to the back at 16 in. above the seat.	Pass
Back Strength Test – Static – Type III (Proof Load)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 6	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1001 N (250 lbs.) is applied for 1 min. Applied 90° to the back at 16 in. above the seat.	Pass
Drop Test – Dynamic (Functional Load)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 7	No loss of serviceability when 102kg (225 lbs.) weight free falls from 6 in height to the center of the seat.	Pass
Drop Test – Dynamic (Proof Load)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 7	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 136kg (300 lbs.) weight free falls from 6 in height to the center of the seat.	Pass
Swivel Test – Cyclic	ANSI/BIFMA X5.1 -2017 (R2022) Clause 8	No loss of serviceability after 60,000 cycles of rotation (360°) under a 122kg (270 lbs.) load on the seat at its max. height. Seat shall then withstand another 60,000 cycles of rotation at its lowest seating position. Total 120,000 cycles.	N/A See note 1
Tilt Mechanism Test – Cyclic – Type I & II	ANSI/BIFMA X5.1 -2017 (R2022) Clause 9	No loss of serviceability after 300,000 cycles under a 109kg (240 lbs.) load to the center of the seat	N/A See note 1



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Impact test	ANSI/BIFMA X5.1 -2017 (R2022) Clause 10.3	No loss of serviceability in 100,000 cycles impact. A weight of 57kg (125 lbs.) free falls onto the seat from 1.4 in. height.	Pass
Front Corner Load Ease Test – Cyclic – Off Center	ANSI/BIFMA X5.1 -2017 (R2022) Clause 10.4	No loss of serviceability after load each seat front corner with 890N (200 lbs.) for 20,000 cycles, total 40,000 cycles. Note: this test is done after “Impact test” on the same sample.	Pass
Stability Test - Rear Stability for Type III Chairs	ANSI/BIFMA X5.1 -2017 (R2022) Clause 11.3.1	Load the chair with 6 disks, 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. For chairs with seat height less than 710 mm (28.0 in.), calculate the force as follows: <ul style="list-style-type: none"> • $F = 0.1964 (1195 - H)$ Newton. • $[F = 1.1 (47 - H)$ pounds force.]. H is the seat height in mm. 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. The chair shall not tip over.	Pass
Stability Test - Rear Stability for Type I and II Chairs	ANSI/BIFMA X5.1 -2017 (R2022) Clause 11.3.2	Load the chair with 13 disks, place the first disk on the seat so it touches the support fixture. The chair shall not tip over.	N/A See note 1
Stability Test – Front Stability	ANSI/BIFMA X5.1 -2017 (R2022) Clause 11.4	The chair is obstructed with a 13mm (½ in.) obstruction to the chair casters/legs. A downward load of 61kg (135 lbs.) is centered 60mm (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)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 12	No loss of serviceability when 750N (169 lbs.) is applied for 1 min. The vertical load is uniformly applied along a 127mm (5 in.) length at the apparent weakest point.	N/A See note 1
Arm Strength Test Vertical –Static (Proof Load)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 12	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1125N (253 lbs.) is applied for 15 seconds. The vertical load is uniformly applied along a 127mm (5 in.) length at the apparent weakest point.	N/A See note 1



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Arm Strength Test Horizontal – Static (Functional Load)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 13	No loss of serviceability when 445N (100 lbs.) for 1 min. is applied horizontally outward to the armrest at the most forward point of the armrest.	N/A See note 1
Arm Strength Test Horizontal – Static (Proof Load)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 13	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 667N (150 lbs.) for 15 seconds. is applied horizontally outward to the armrest at the most forward point of the armrest.	N/A See note 1
Back Durability Test – Cyclic – Type I	ANSI/BIFMA X5.1 -2017 (R2022) Clause 14	No loss of serviceability in 120,000 cycles with a 109kg (240 lbs.) in the center of the seat and a 445N (100 lbf.) 90° to the center of the chair back. For chairs with a back width greater than 406mm (16 in.), test at the center of chair back for 80,000 cycles and then 102mm (4 in.) off-center 40,000 cycles, half to each side.	N/A See note 1
Back Durability Test – Cyclic – Type II & III	ANSI/BIFMA X5.1 -2017 (R2022) Clause 15	No loss of serviceability in 120,000 cycles with a 109kg (240 lbs.) in the center of the seat and a 334N (75 lbf.) 90° to the center of the chair back. For chairs with a back width greater than 406mm (16 in.), test at the center of chair back for 80,000 cycles and then 102mm (4 in.) off-center 40,000 cycles, half to each side.	Pass
Caster / Chair Base Durability Test For Pedestal Base Chair	ANSI/BIFMA X5.1 -2017 (R2022) Clause 16.1	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 under a 122kg (270 lbs.) load on the seat. Test stroke is 762mm (30 in.) minimum. The caster should not separate under 22N (5 lbs.) pulling force in line with the caster stem after the cycling test.	N/A See note 1



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Caster / Chair Base Durability Test For Chairs with Legs	ANSI/BIFMA X5.1 -2017 (R2022) Clause 16.2	No loss of service after 2,000 cycles over a hard surface with 2 obstacles and 98, 000 cycles over a smooth hard surface without obstacles under a 122kg (270 lbs.) load on the seat. Test stroke is 762mm (30 in.) minimum. The caster should not separate under 22N (5 lbs.) pulling force in line with the caster stem after the cycling test.	N/A See note 1
Leg Strength Test – Front Load (Functional Load)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 17.3	No loss of serviceability when a force of 334N (75 lbf.) is applied to each front leg individually for 1 minute.	Pass
Leg Strength Test – Front Load (Proof Load)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 17.3	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 503N (113 lbf.) is applied to each front leg individually for 1 minute.	Pass
Leg Strength Test – Side Load (Functional Load)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 17.4	No loss of serviceability when a force of 334N (75 lbf.) is applied once to each front and rear leg individually for 1 minute.	Pass
Leg Strength Test – Side Load (Proof Load)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 17.4	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 503N (113 lbf.) is applied once to the front and rear leg individually for 1 minute.	Pass
Footrest Static Load Test – Vertical-Functional load (If applicable)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 18.4.1	Apply a force F1 of 445 N (100 lbf.) uniformly along a 102 mm (4 in.) distance along the footrest but not greater than 51 mm (2 in.) from the outside edge at the apparent weakest point of the structure for one (1) minute in the vertical downward direction, maintain force F1 and apply an additional force F2 of 445 N (100 lbf.) to the footrest at the opposing position for an additional one (1) minute. There shall be no loss of serviceability or sudden loss of footrest height.	N/A See note 1



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Footrest Static Load Test – Vertical-Proof load (If applicable)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 18.4.3	Apply a force of 1334 N (300 lbf.) uniformly along a 102 mm (4 in.) distance along the footrest but not greater than 51 mm (2 in.) from the outside edge at the apparent weakest point of the structure for one (1) minute in the vertical downward direction. The load applied once shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.	N/A See note 1
Footrest Durability Test – Vertical – Cyclic (If applicable)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 19	No loss of serviceability after 50,000 cycles of a 890N (200 lbf) load vertical along 102mm (4 in.) length of the footrest at the apparent weakest point of the structure.	N/A See note 1
Arm Durability Test – Cyclic	ANSI/BIFMA X5.1 -2017 (R2022) Clause 20	No structural breakage or loss of serviceability when a force of 400N (90 lbf.) is applied to each arm at a 10° angle ±1° for 60,000 cycles	N/A See note 1
Out Stop Tests For Chairs With Manually Adjustable Seat Depth (If applicable)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 21	Place 74 kg (163 lb.) rigid mass in the center of the seat, 25 kg (55lbf.) hanging weight shall be held at its most rearward position, then released, permitting it to move forward rapidly and impact the out stops. Repeat for a total of 25 cycles. There shall be no loss of serviceability to the unit.	N/A See note 1
Tablet Arm Static Load Test (If applicable)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 22	Apply a load of 68 kg (150 lb.) through a 203 mm diameter area 25 mm from the edge of the surface at its apparent weakest point, for one (1) minutes. Shall cause no sudden and major change in the structural integrity of the chair at the first load, and after performing the test, the tablet arm must allow egress form the unit; other losses of serviceability are acceptable.	N/A See note 1
Tablet Arm Load Ease Test – Cyclic (If applicable)	ANSI/BIFMA X5.1 -2017 (R2022) Clause 23	A 25kg (55 lb.) bag shall be raised until the entire weight is off the tablet surface and then eased (without impact) onto the surface, repeat for a total of 100,000 cycles without loss of serviceability to the unit.	N/A See note 1



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Structural Durability Test – Cyclic	ANSI/BIFMA X5.1 -2017 (R2022) Clause 24	Place a weight of 109kg (240lbf) in the center of the seat. Apply a force of 334N (75lbf) at an appropriate for 25000cycles by a cycling device. There shall be no loss of serviceability	Pass

Note : # 1- N/A means not applicable to this product design.

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- The declaration of conformity is based on acceptance limits chosen based on simple acceptance ($w = 0$, $AL = TL$).

Statements of conformity are reported as:

Passed - The measured values were observed in tolerance at the points tested.

Failed - One or more measured values were observed out of tolerance at the points tested.



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Sample Photo:

Received sample (view 1)



Received sample (view 2)



Received sample (view 3)



SGS authenticate the photo on original report only

End of Report



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