Scaun de Birou HumanTech

(fișa tehnică)

Caracteristici de bază:

Scaun ergonomic pentru uz intens, rezistent la 130 kg, destinat pentru spații de birouri.

Informații produs:

Șezut Formă ergonomică.
Structură sezut popipropilenă.
Tapițat cu mesh.

Spătar: Formă ergonomică.
Structură sezut popipropilena.
Tapițat cu mesh.
Suport lombar integrat.

Tetieră: Reglabila 2D (reglaj unghi și înălțime)
Mecanism: Sincron.
Acționare facilă prin două clapete.
Posibilitatea de blocare în 4 poziții distincte și de reglare a șezutului pe înălțime.
Brațe: Brațe reglabile 3D (vertical, orizontal și rotativ).
Top poliuretan moale, plăcute la atingere.
Bază: polipropilenă, diametru: 700 mm.
Role: gumate, diametrul 60 mm.
Finisaje Spătar: mesh, șezut: mesh.
Elemente din PP: negru, alb, rosu, verde, gri.
Greutate portantă: 136 kg
Garanție: 24 luni (conform Legii 449/2003 republicată 2008)

Dimensiuni produs:
a) Înălțime scaun: 117-127 cm
b) Adâncime șezut: 47 cm
c) Înălțime șezut: 46-56 cm
f) Lățime șezut: 51 cm
g) Diametru bază: 700 cm

Dimensiuni ambalaj:
76.5x65x37 cm (cutie carton)
Greutate Brut: 23.5 kg
Greutate Net: 20.3 kg

Certificări: **ANSI/BIFMA X5-2017**
Produs certificat, nu doar anumite componente.
Teste efectuate: rezistentă spătar, drop test, test mecanism, test cilindru, test de stabilitate, rezistența brațelor, test baza polipropilenă, test role.
Mai multe detalii conform certificatului de mai jos.

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Test Report Number: SHAH01542026

Tests Conducted

OFFICE CHAIRS TESTS

With reference to American national standard for office furnishings - general- purpose office chairs - tests (ANSI/BIFMA X5.1-2017)

Number of sample tested: One (1) piece per sample

Initial inspection: No damage was found

Executive summary:

Clause	Testing items	Test result	Verdict
Back Strength Test - Static - Type I &Type II (Functional Load)	ANSI/BIFMA X5.1 -2017 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.	P
Back Strength Test – Static – Type I &Type II (Proof Load)	ANSI/BIFMA X5.1 -2017 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.	P
Back Strength Test – Static – Type III (Functional Load)	ANSI/BIFMA X5.1 -2017 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.	P
Back Strength Test – Static – Type II & III (Proof Load)	ANSI/BIFMA X5.1 -2017 Clause 6	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 90° to the back at 16 in. above the seat.	P
Drop Test – Dynamic (Functional Load)	ANSI/BIFMA X5.1 -2017 Clause 7	No loss of serviceability when 102kg (225 lbs.) weight free falls from 6 in height to the center of the seat.	P
Drop Test – Dynamic (Proof Load)	ANSI/BIFMA X5.1 -2017 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.	P
Swivel Test – Cyclic	ANSI/BIFMA X5.1 -2017 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. Frequency: 5-15 cpm	P
Tilt Mechanism Test – Cyclic	ANSI/BIFMA X5.1 -2017 Clause 9	No loss of serviceability after 300,000 cycles under a 109kg (240 lbs.) load to the center of the seat. Frequency: 10-30 cpm	P
Seat Impact Test – Cyclic	ANSI/BIFMA X5.1 -2017 Clause 10.3	No loss of serviceability in 100,000 cycles impact. A weight of 57kg (125 lbs.) free falls onto the seat from 30 mm (1.4 in.) height. Frequency: 10-30 cpm	P
Front Corner Load Ease Test – Cyclic – Off Center	ANSI/BIFMA X5.1 -2017 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. Frequency: 10-30 cpm	P

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Tests Conducted

Clause	Testing items	Test result	Verdict
Stability Test – Rear Stability for Type III Chairs	ANSI/BIFMA X5.1 -2017 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: 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. The chair shall not tip over.	P
Stability Test – Rear Stability for Type I and II Chairs	ANSI/BIFMA X5.1 -2017 Clause 11.3.2	Load the chair with 13 disks, Place the first disk into the seat using the Template from Appendix G. Make a mark on the seat at the Rear Stability mark on the template. Remove the template and place the front of the first disk at this mark. The chair shall not tip over.	P
Stability Test – Front Stability	ANSI/BIFMA X5.1 -2017 Clause 11.4	The chair is obstructed with a 13mm (½ in.) obstruction to the chair casters/legs. A downward load of 600N (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.	P
Arm Strength Test Vertical – Static (Functional Load)	ANSI/BIFMA X5.1 -2017 Clause 12	No loss of serviceability when 750N (169lbs.) is applied for 1 min. The vertical load is uniformly applied along a 127mm (5 in.) length at the apparent weakest point.	P
Arm Strength Test Vertical –Static (Proof Load)	ANSI/BIFMA X5.1 -2017 Clause 12	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1125N (253 lbs.) is applied for 15s. The vertical load is uniformly applied along a 127mm (5 in.) length at the apparent weakest point.	P
Arm Strength Test Horizontal – Static (Functional Load)	ANSI/BIFMA X5.1 -2017 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.	P
Arm Strength Test Horizontal – Static (Proof Load)	ANSI/BIFMA X5.1 -2017 Clause 13	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 667N (150 lbs.) for 15s is applied horizontally outward to the armrest at the most forward point of the armrest.	P
Back Durability Test – Cyclic – Type I	ANSI/BIFMA X5.1 - 2017 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 backs. 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. Frequency: 10-30 cpm	NA
Back Durability Test – Cyclic – Type II & III	ANSI/BIFMA X5.1 – 2017 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 backs. 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. Frequency: 10-30 cpm	P

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Tests Conducted

Clause	Testing items	Test result	Verdict
Caster/Chair Base Durability Test - Cyclic	ANSI/BIFMA X5.1 - 2017 Clause 16	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. No part of the caster shall separate from the chair as a result of the application of the 22 N (5 lbf.) force. Test stroke is adjusted to 762 +/- 50 mm (30 +/- 2 in.). The caster should not separate under 22N (5 lbs.) pulling force in line with the caster stem after the cycling test. Frequency: 8-12 cpm	P
Leg Strength Test – Front Load (Functional Load)	ANSI/BIFMA X5.1 - 2017 Clause 17.3	No loss of serviceability when a force of 334N (75 lbf.) is applied to each front leg individually for 1 minute.	NA
Leg Strength Test – Front Load (Proof Load)	ANSI/BIFMA X5.1 - 2017 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.	NA
Leg Strength Test – Side Load (Functional Load)	ANSI/BIFMA X5.1 - 2017 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.	NA
Leg Strength Test – Side Load (Proof Load)	ANSI/BIFMA X5.1 - 2017 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.	NA
Footrest Static Load Test – Vertical-Functional load	ANSI/BIFMA X5.1 - 2017 Clause 18	The test only performed on chairs with seat height ≥ 610mm (24in.). 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.	NA
Footrest Static Load Test – Vertical-Proof load	ANSI/BIFMA X5.1 - 2017 Clause 18	The test only performed on chairs with seat height ≥ 610mm (24in.). 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.	NA
Footrest Durability Test – Vertical – Cyclic	ANSI/BIFMA X5.1 - 2017 Clause 19	The test only performed on chairs with seat height ≥ 610mm (24in.). 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. Frequency: 10-30 cpm	NA
Arm Durability Test – Cyclic	ANSI/BIFMA X5.1 - 2017 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. Frequency: 10-30 cpm	P

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Tests Conducted

Clause	Testing items	Test result	Verdict
Out Stop Tests For Chairs With Manually Adjustable Seat Depth	ANSI/BIFMA X5.1 - 2017 Clause 21	Place 70 kg (154 lb.) rigid mass in the center of the seat, 25 kg (55lgf.) 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.	NA
Tablet Arm Static Load Test	ANSI/BIFMA X5.1 - 2017 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) minute. 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.	NA
Tablet Arm Load Ease Test – Cyclic	ANSI/BIFMA X5.1 - 2017 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. Frequency: 8-20 cpm	NA
Structural Durability Test – Cyclic	ANSI/BIFMA X5.1 - 2017 Clause 24	Place a weight of 109 kg (240 lb.) in the center of the seat. A cycling device shall be attached to the unit frame midway between front and rear of the seat at the height of the midpoint of the seat frame structure. The cycling device shall be adjusted to apply a "push-pull" action. Apply a force of 334 N (75 lbf.) at an appropriate rate between 10 and 30 cycles per minute, repeat for a total of 25,000 cycles without loss of serviceability to the unit. Frequency: 10-30 cpm	NA

Abbreviation: P=Pass; **NA**=**N**ot **A**pplicable; **NC** = **N**ot **C**onducted; **NR** = **N**ot **R**equested

Additional test should be conducted according to the client's requirement:

Base Test – Static **(Informative)**	ANSI/BIFMA X5.1 –2017 Appendix C	No sudden and major change in the structural integrity under 11,120 N (2500 lbs.) compression for 1 min. The weight is then removed and reapplied for 1 min. The center column may not touch the test platform during load applications.	NR

Abbreviation: P=Pass; **NA**=**N**ot **A**pplicable; F=Fail; **NC** = **N**ot **C**onducted; **NR** = **N**ot **R**equested

Remark:
1. Type of Chair
The type of the submitted sample: Type II & Type III

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Test Report Number: SHAH01542026

Tests Conducted

Picture 1: Submitted sample

Picture 2: Submitted sample

Date Sample Received: Feb 15 , 2023
Testing Period: Feb 15 , 2023 to Mar 08, 2023

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End Of Report