

Test Report

No. AJD201104792

Date: NOV. 04, 2011

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ANJIE HETIAN FURNITURE CO., LTD

TIANPU INDUSTRIAL ZONE, ANJI COUNTY, ZHEJIANG PROVINCE, CHINA

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description : HT-3159
Test Requested : ANSI/BIFMA X5.1-2011 GENERAL-PUROPSE OFFICE CHAIRS-TESTS
Sample Receiving Date : OCT.12, 2011
Sample Re-Submitted Date : OCT.20, 2011
Test Performing Date : OCT.12, 2011 TO OCT.31, 2011
Test Result(s) : PASS. FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)
Conclusion(s) : THE SUBMITTED SAMPLE **MEETS** THE TEST REQUIREMENTS OF ANSI/BIFMA X5.1.

Signed for and on behalf of
SGS-CSTC Co., Ltd.

David Fan
Engineer

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Test Conducted: ANSI/BIFMA X5.1 -2011

Details were shown as following table.

Test Items	Test Principles & Requirements	Test Results
Backrest Strength Test– Static –Type I (Functional Load) (Clause 5.4)	There shall be no loss of serviceability when 890N(200lbs.) is applied 90° to the back at 406mm(16in.) above the seat for 1 min.	NA
Backrest Strength Test– Static –Type I (Proof Load) (Clause 5.4)	There shall be no sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1334N(300lbs.) is applied 90° to the back at 406mm(16in.) above the seat for 1 min.	NA
Backrest Strength Test- Static-Type II & III (Functional Load) (Clause 6.4)	There shall be no loss of serviceability when 667N (150lbs.) is applied 90° to the back at 406mm(16in.) above the seat for 1 min.	PASS
Backrest Strength Test - Static-Type II & III (Proof Load) (Clause 6.4)	There shall be no sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1112N(250lbs.) is applied 90° to the back at 406mm(16in.) above the seat for 1 min.	PASS
Base Test – Static (Clause 7.4)	There shall be no sudden and major change in the structural integrity under 11,120N (2500lbs.) load for 1 min. The force is then removed and reapplied for 1 min. The center column may not touch the test platform during load applications.	NA
Drop Test–Dynamic (Functional Load) (Clause 8.4)	There shall be no loss of serviceability when 102kg (225lbs.) weight free falls from 152mm(6in.) height to the center of the seat.	PASS
Drop Test Dynamic (Proof Load) (Clause 8.4)	There shall be no sudden and major change in the structural integrity (loss of serviceability is acceptable) when 136kg(300lbs.) weight free falls from 152mm(6in.) height to the center of the seat.	PASS
Swivel Test – Cyclic (Clause 9.4)	There shall be no loss of serviceability after 60,000cycles of rotation (360°) under a 113kg(250lbs.) load on the seat at its maximum height. Seat shall then withstand another 60,000cycles of rotation at its lowest seating position.	NA
Tilt Mechanism Test – Cyclic –Type I & II (Clause 10.4)	There shall be no loss of serviceability after moving the mechanism between the front and back stops for 300,000cycles under a 102kg (225lbs.) load on the seat.	NA
Seating Durability Tests – Cyclic (Impact Test) (Clause 11.3)	There shall be no loss of serviceability after a 57kg(125lbs.) weight free falls onto the seat from 30mm(1.2in.) height for 100,000cycles.	PASS
Seating Durability Tests – Cyclic Front Corner Load – Ease Test (Clause 11.4)	There shall be no loss of serviceability after load each seat front corner with 734N(165lbs.) for 20,000cycles, then load another corner for 20,000cycles.	PASS

To be continued...

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Test Items	Test Principles & Requirements	Test Results
Stability Tests – Rear Stability – Type III Chair (Clause 12.3)	The chair shall not tip over when applying a horizontal force to the highest disk of the 6 disks loading on the chair.	PASS
Stability Tests – Rear Stability – Type I and II Chair (Clause 12.3)	The chair shall not tip over when stacking 13 disks against backrest support fixture.	NA
Stability Tests – Front Stability (Clause 12.4)	The chair shall not tip over when applying a horizontal force of 20N (4.5lbf.) from the seat with a vertical load of 600N(135lbs.) to the seat.	PASS
Arm Strength Test Vertical – Static (Functional Load) (Clause 13.4)	There shall be no loss of serviceability 750 N (169lbf.) is applied vertically to the armrest for 1 min.	PASS
Arm Strength Test Vertical – Static (Proof Load) (Clause 13.4)	There shall be no sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1125 N (253 lbf.) is applied vertically to the armrest for 1 min.	PASS
Arm Strength Test Horizontal – Static (Functional Load) (Clause 14.4)	There shall be no loss of serviceability when 445N (100lbs.) is applied horizontally outward to the armrest for 1 min.	PASS
Arm Strength Test Horizontal – Static (Proof Load) (Clause 14.4)	There shall be no sudden and major change in the structural integrity (loss of serviceability is acceptable) when 667N (150lbs.) is applied horizontally outward to the armrest for 1 min.	PASS
Back Durability Test – Cyclic –Type I (Clause 15.4)	There shall be no loss of serviceability when 445N(100lbs.) is applied 90° to the back at 406mm(16in.) above the seat for 120,000 cycles with 102kg (225lbs.) weight on the seat.	NA
Back Durability Test – Cyclic–Type II & III (Clause 16.4)	There shall be no loss of serviceability when 334N(75lbs.) is applied 90° to the back at 406mm(16in.) above the seat for 120,000 cycles with 102kg (225lbs.) weight on the seat.	PASS
Caster / Chair Base Durability Test –Cyclic (Pedestal Base Chairs) (Clause 17.1)	There shall be no loss of serviceability after 2,000cycles over a hard surface with obstacles and 98, 000cycles over a smooth hard surface without obstacles under a 113 kg (250 lb.) load on seat. The caster should not separate under 22N (5lbs.) pulling force after cycling test.	NA
Caster / Chair Base Durability Test –Cyclic (Chairs with Legs) (Clause 17.2)	There shall be no loss of serviceability after 2,000cycles over a hard surface with obstacles and 98, 000cycles over a smooth hard surface without obstacles under a 113 kg (250 lb.) load on seat. The caster should not separate under 22N (5lbs.) pulling force after cycling test.	PASS
Leg Strength Test –Front Load Test (Functional Load) (Clause 18.3)	There shall be no loss of serviceability when a force of 334N(75lbf.) is applied to each front leg individually for 1 minute.	PASS

To be continued...

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Test Items	Test Principles & Requirements	Test Results
Leg Strength Test-Front Load Test (Proof Load) (Clause 18.3)	There shall be no sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 503 N (113 lbf.) is applied to each front leg individually for 1 minute.	PASS
Leg Strength Test-Side Load Test (Functional Load) (Clause 18.4)	There shall be no loss of serviceability when a force of 334N (75lbf.) is applied once to each front and rear leg individually for 1 minute.	PASS
Leg Strength Test -Side Load Test (Proof Load) (Clause 18.4)	There shall be no sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force 503 N (113 lbf.) is applied to each front and rear leg individually for 1 minute.	PASS
Footrest Static Load Test – Vertical (Functional Load) (Clause 19.4)	There shall be no loss of serviceability or sudden loss of footrest height when applying vertical force 445N (100lbf.) to footrest for 1 minute.	NA
Footrest Static Load Test – Vertical (Proof Load) (Clause 19.4)	There shall be no loss of serviceability or sudden loss of footrest height when applying vertical force 1334N (300lbf.) to footrest for 1 minute.	NA
Footrest Durability Test (Clause 20.4)	There shall be no loss of serviceability after a 890N(200lbf) load is applied vertically on the footrest for 50,000cycles.	NA
Arm Durability Test-Cyclic (Clause 21.3)	There shall be no structural breakage or loss of serviceability when a force of 400N(90lbf.) is applied to each arm at a 10° ±1° angle for 60,000cycles.	PASS
Out Stop Tests for Chairs with Manually Adjustable Seat Depth (Clause 22.3)	There shall be no loss of serviceability after releasing the seat for 25 cycles from its most rearward position with a 25kg(55lb.) weight attached vertically and a 74 kg (163 lb.)weight loaded above.	NA
Tablet Arm Static Load Test (Clause 23.3)	There shall be no sudden and major change after applying a load of 68 kg(150 lb.) at tablet arm for 1 minutes.	NA
Tablet Arm Load Ease Test – Cyclic (Clause 24.3)	There shall be no loss of serviceability after loading the tablet surface with a weight of 35kg(77lb.) for 100,000 cycles.	NA

Remark:

- 1) NA---not applicable.
- 2) Type of chair:

Type III-fixed seat angle, fixed backrest: a chair that provides a fixed seat angle with a fixed backrest.

To be continued...

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Sample Photo:



End of Report

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