



**Test Report**

**No.: SDHGR110400630FT**

**Date: Jun 24, 2011**

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Woodstock Marketing, LLC  
PO Box 5711  
Williamsburg, VA 23188

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

- Sample Description : OFFICE CHAIR
- Style / Item No. : Janis, Jimi, Joan, Joe, Marie, B.Goode, Classic, Ravi
- Manufacturer : Woodstock Marketing, LLC
- Test Performed : ANSI/BIFMA X5.1 -2002 General -Purpose Office Chair - Tests,  
American National Standard for Office Furniture.
- Sample Receiving Date : Apr 19, 2011
- Sample 1<sup>st</sup> Resubmission Date : May 25, 2011
- Sample 2<sup>nd</sup> Resubmission Date : Jun 23, 2011
- Test Performing Date : Apr 19, 2011 to Jun 23, 2011
- Test Result(s) : For further details, please refer to the following page(s)
- Comments / Conclusion : PASS  
The Submitted sample met the requirements of ANSI/BIFMA X5.1 -2002

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

Jack Yao  
Laboratory Manager

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**Test Conducted: ANSI/BIFMA X5.1 -2002 General -Purpose Office Chair – Tests, American National Standard for Office Furniture.**

Test Items	Test Methods & Requirements	Test Results
Back Strength Test - Static - Type I Clause 5.4 (Functional Load)	No loss of serviceability when 890N (200lbs.) is applied for 1 min. Applied 90° to the back at 16in. above the seat.	PASS
Back Strength Test - Static - Type I Clause 5.4 (Proof Load)	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1334N (300lbs.) is applied for 1 min. Applied 90° to the back at 16in. above the seat.	PASS
Back Strength Test - Static - Type II & III Clause 6.4 (Functional Load)	No loss of serviceability when 667N (150lbs.) is applied for 1 min. Applied 90° to the back at 16in. above the seat.	PASS
Back Strength Test - Static - Type II & III Clause 6.4 (Proof Load)	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1112N (250lbs.) is applied for 1 min. Applied 90° to the back at 16in. above the seat.	PASS
Base Test – Static Clause 7	No sudden and major change in the structural integrity under 11,120N (2500lbs.) compressions 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.	PASS
Drop Test – Dynamic - Clause 8.4 (Functional Load)	No loss of serviceability when 102kg (225lbs.) weight free falls from 6in. height to the center of the seat.	PASS
Drop Test Dynamic - Clause 8.4 (Proof Load)	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 136kg (300lbs.) weight free falls from 6in. height to the center of the seat.	PASS
Swivel Test – Cyclic Clause 9	No loss of serviceability after 60,000cycles of rotation (360°) under a 102kg (225lbs.) load on the seat at its max. height. Seat shall then withstand another 60,000cycles of rotation at its lowest seating position. Total 120,000cycles.	PASS
Tilt Mechanism Test – Cyclic – Type I & II Clause 10	No loss of serviceability after 300,000cycles under a 102kg (225lbs.) load to the center of the seat	PASS
Impact Test – Cyclic Clause 11.3	No loss of serviceability in 100,000cycles impact. A weight of 57kg (125lbs.) free falls onto the seat from 1 in. height.	PASS
Front Corner Load Ease Test – Cyclic – off Center Clause 11.4	No loss of serviceability after load each seat front corner with 734N (165 lbs.) for 20,000 cycles, total 40,000 cycles. Note: this test is done after "Impact test" on the same sample.	PASS

To be continued...

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Test Items	Test Methods & Requirements	Test Results
Stability Test – Rear Stability Clause 12.3	A 79kg (173lbs.) weight is placed to the seat center (strapped as Fig. 12a). Obstruct the chair casters/legs with 13mm (½in.) obstacle. A tipping force is applied to the chair back until the total weight is transferred to the rear support members. The tipping force shall not be less than: Type I and II –89N (20 lbs.) Type III –156N (35 lbs.)	PASS
Stability Test – Front Stability Clause 12.4	The chair is obstructed with a 13mm (½ in.) obstruction to the chair casters/legs. A downward load of 600N (135lbs.) is centered 60mm (2.4in.) from the seat front center edge. The seat shall withstand a 20N (4.5lbf.) horizontally from the front seat edge without tipping.	PASS
Arm Strength Test Vertical – Static Clause 13.4 (Functional Load)	No loss of serviceability when 890N (200lbs.) is applied for 1 min. The vertical load is uniformly applied along a 127mm (5in.) length at the apparent weakest point.	PASS
Arm Strength Test Vertical-Static Clause 13.4 (Proof Load)	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1334N (300lbs.) is applied for 1 min. The vertical load is uniformly applied along a 127mm (5 in.) length at the apparent weakest point.	PASS
Arm Strength Test Horizontal –Static - Clause 14.4 (Functional Load)	No loss of serviceability when 445N (100lbs.) for 1 min. is applied horizontally outward to the armrest at the most forward point of the armrest.	PASS
Arm Strength Test Horizontal – Static – Clause 14.4 (Proof Load)	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 667N (150lbs.) for 1 min. is applied horizontally outward to the armrest at the most forward point of the armrest.	PASS
Back Durability Test – Cyclic – Type I (Clause 15)	No loss of serviceability in 120,000 cycles with a 102kg (225lbs.) in the center of the seat and a 445N (100lbf.) 90° to the center of the chair back. For chairs with a back width greater than 406mm (16in.), test at the center of chair back for 80,000cycles and then 102mm (4in.) off-center 40,000 cycles, half to each side.	PASS
Back Durability Test – Cyclic – Type II & III (Clause 16)	No loss of serviceability in 120,000 cycles with a 102kg (225lbs.) in the center of the seat and a 334N (75lbf.) 90° to the center of the chair back. For chairs with a back width greater than 406mm (16in.), test at the center of chair back for 80,000cycles and then 102mm (4in.) off-center 40,000 cycles, half to each side.	PASS
Caster / Chair Base Durability Test For Pedestal Base Chair (Clause 17.1)	No loss of service after 2,000cycles over a hard surface with 3 obstacles and 98, 000cycles over a smooth hard surface without obstacles under a 102kg (225lbs.) load on the seat. Test stroke is 762mm (30in.) minimum. The caster should not separate under 22N (5lbs.) pulling force in line with the caster stem after the cycling test.	PASS

To be continued...

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Test Items	Test Methods & Requirements	Test Results
Caster / Chair Base Durability Test for Chairs with Legs (Clause 17.2)	No loss of service after 2,000cycles over a hard surface with 2 obstacles and 98, 000cycles over a smooth hard surface without obstacles under a 102kg (225lbs.) load on the seat. Test stroke is 762mm (30in.) minimum. The caster should not separate under 22N (5lbs.) pulling force in line with the caster stem after the cycling test.	N/A
Leg Strength Test - Front Load – Clause 18.3 (Functional Load)	No loss of serviceability when a force of 334N (75lbf.) is applied to each front leg individually for 1 minute.	N/A
Leg Strength Test- Front Load – Clause 18.3 (Proof Load)	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 556N (125lbf.) is applied to each front leg individually for 1 minute.	N/A
Leg Strength Test -Side Load – Clause 18.4 (Functional Load)	No loss of serviceability when a force of 334N (75lbf.) is applied once to each front and rear leg individually for 1 minute.	N/A
Leg Strength Test -Side Load – Clause 18.4 (Proof Load)	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 512N (115lbf.) is applied once to the front and rear leg individually for 1 minute.	N/A
Footrest Durability Test (Clause 19)	No loss of serviceability after 50,000cycles of a 890N (200lbf) load vertical along 102mm (4in.) length of the footrest at the apparent weakest point of the structure.	N/A
Arm Durability Test- Cyclic (Clause 20)	No structural breakage or loss of serviceability when a force of 400N (90lbf.) is applied to each arm at a 10° angle $\pm 1^\circ$ for 60,000cycles	PASS
Out Stop Tests for Chairs with Manually Adjustable Seat Depth (Clause 21)	Place a 70 kg (154 lb) rigid mass in the center of the seat. Hold the seat at its most position. A cable is attached to the most rigid point of the vertical centerline of the seat. Hang a weight of 25 kg (55 lb) on the opposite end of the cable. Release the weight so it can drag the seat move forward rapidly and impact	N/A
Tablet Arm Static Load Test (Clause 22)	Apply a load of 68 kg (150 lb) at the apparent weakest position for 5 minutes and remove the load. No sudden and major change in the chair when the application of the load.	N/A
Tablet Arm Load Ease Test – Cyclic (Clause 23)	No loss of serviceability to the unit after loading the tablet surface with a weight of 35 kg (77 lb) for a total 100,000 cycles.	N/A

Remark:

1) Sample details:

Overall dimensions:	700mm x 625mm x 1040mm
Weight	13.14kg

To be continued...

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2) N/A – Not applicable;

3) Type of chair:

Type I – tilt chair: a chair with a seat tilts with a counterbalancing force;

Type II – fixed seat angle, tilting backrest: a chair that provides a fixed angle with a tilting backrest;

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

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