

**ZHEJIANG SUNON FURNITURE MANUFACTURE CO. LTD**  
 NO.35 NINGDONG ROAD XIAOSHAN ECO & TEC ZONE HANGZHOU CHINA

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

Sample Description	WINGER
Manufacturer Name	ZHEJIANG SUNON FURNITURE MANUFACTURE CO. LTD
Sample Receiving Date	MAY 09, 2017
Test Performing Date	MAY 09, 2017 TO MAY 23, 2017

Test Result Summary	
Test(s) Requested	Result(s)
Sample A: ANSI/BIFMA X5.1-2017, Clause 5, 6, 7, 12, 13	PASS
Sample B: ANSI/BIFMA X5.1-2017, Clause 10.3 Modified, Clause 14 Modified, Clause 15 Modified, Clause 20 Modified	PASS
<b>Summary:</b> 1. For further details, please refer to the following page(s)	

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



David Fan  
 Approved Signatory



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**Test Conducted: ANSI/BIFMA X5.1 -2017 General-Purpose office chairs -Tests**

**Test Result:**

**Sample A:**

Test Item	Test Principle & Requirement	Test Result
Backrest Strength Test - Static - Type I and II (Functional Load) (Clause 5)	There shall be no loss of serviceability when a force of 667N (150lbf.) is applied 70°± 10° to the back at 406mm (16in.) above the seat for 1 minute.	PASS
Backrest Strength Test - Static - Type I and II (Proof Load) (Clause 5)	There shall be no sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 1001N (225lbf.) is applied 70°± 10° to the back at 406mm (16in.) above the seat for 1 minute.	PASS
Backrest Strength Test - Static - Type III (Functional Load) (Clause 6)	There shall be no loss of serviceability when a force of 667N (150lbf.) is applied 90°± 10° to the back at 406mm (16in.) above the seat for 1 minute.	PASS
Backrest Strength Test - Static - Type III (Proof Load) (Clause 6)	There shall be no sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 1001N (225lbf.) is applied 90°± 10° to the back at 406mm (16in.) above the seat for 1 minute.	PASS
Drop Test–Dynamic (Functional Load) (Clause 7)	There shall be no loss of serviceability when a 102kg (225lb.) weight free falls from 152mm (6in.) height to the center of the seat one time (for the seat height is adjustable, test one time in its highest position then one time in its lowest position).	PASS
Drop Test Dynamic (Proof Load) (Clause 7)	There shall be no sudden and major change in the structural integrity (loss of serviceability is acceptable) when a 136kg (300lb.) weight free falls from 152mm(6in.) height to the center of the seat one time (for the seat height is adjustable, test one time in its highest position then one time in its lowest position).	PASS
Arm Strength Test – Vertical – Static (Functional Load) (Clause 12)	There shall be no loss of serviceability when a force of 750N (169lbf.) is applied vertically to the armrest for 1 minute.	PASS
Arm Strength Test – Vertical – Static (Proof Load) (Clause 12)	There shall be no sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 1125N (253lbf.) is applied vertically to the armrest for 15s.	PASS
Arm Strength Test – Horizontal – Static (Functional Load) (Clause 13)	There shall be no loss of serviceability when a force of 445N (100lbf.) is applied horizontally outward to the armrest for 1 min.	PASS
Arm Strength Test – Horizontal – Static (Proof Load) (Clause 13)	There shall be no sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 667N (150lbf.) is applied horizontally outward to the armrest for 15s.	PASS



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**Sample B:**

Test Item	Test Principle & Requirement	Test Result
Seating Durability Tests – Cyclic (Impact Test) (Clause 10.3, Modified)	There shall be no loss of serviceability after a 57kg (125lbs.) weight free falls onto the seat from 36mm (1.4in.) height for 100,000 cycles. Additional requirement: Leather and fabric on the chair shall be no damage.	PASS
Back Durability Test – Cyclic –Type I (Clause 14, Modified)	There shall be no loss of serviceability when a force of 445N (100lbf.) is applied 90° ± 10° to the back at 406mm (16in.) above the seat for 120,000 cycles with 109kg (240lbs.) weight on the seat. Additional requirement: Leather and fabric on the chair shall be no damage.	PASS
Back Durability Test – Cyclic–Type II & III (Clause 15, Modified)	There shall be no loss of serviceability when a force of 334N (75lbf.) is applied 90° ± 10° to the back at 406mm(16in.) above the seat for 120,000 cycles with 109kg (240lbs.) weight on the seat. Additional requirement: Leather and fabric on the chair shall be no damage.	PASS
Arm Durability Test- Cyclic (Clause 20, Modified)	There shall be no loss of serviceability when a force of 400N (90lbf.) is applied simultaneously to each arm at a 10° ±1° angle for 60,000cycles. Additional requirement: Leather and fabric on the chair shall be no damage.	PASS

**Remark:**

1. Type of chair:

Type I – tilt chair: A chair with a seat and backrest that tilt (either in unison or in synchronization) with a counterbalancing force. Chairs of this type are typically referred to as synchro-tilt, center-tilt, knee-tilt, etc.

Type III–fixed seat angle, fixed backrest: A chair that provides a fixed seat angle with a fixed backrest. This may include chairs with legs, including sled base chairs.



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**Photo Appendix**



Sample A as received - View 1



Sample A as received - View 2



Sample A as received - View 3



Sample A as received - View 4



Sample B as received - View 1



Sample B as received - View 2



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Sample B as received - View 3



Sample B as received - View 4

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\*\*\*End of Report\*\*\*



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