

LIN AN SAI MEI FURNITURE CO., LTD

NO.58 DATANG ROAD GUAFAN ECONOMIC ZONE, LIN'AN HANGZHOU 311300, CHINA

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

| | |
|-----------------------|------------------------------|
| Sample Description | ADJUSTABLE BARSTOOL |
| Sample Receiving Date | AUG 21, 2018 |
| Test Performing Date | AUG 21, 2018 TO AUG 28, 2018 |

| Test Result Summary | |
|---|-----------|
| Test(s) Requested | Result(s) |
| Selected section in AS/NZS 4438:1997+Amdt 1:1999: 1. Section 4 (Test level: 3) 2. Section 5 | PASS |
| Summary: 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: AS/NZS 4438:1997+Amdt 1:1999 Height adjustable swivel chairs:
Section 4 Testing – Strength and durability requirements
Section 5 Testing – Stability requirements**

Test Result:

| Test Item | Test Method & Test Requirement | Test Result |
|--|--|-------------|
| Seat static load test (Section 4.3.1) | Tested in accordance with Appendix B. Apply the downward force V_s of 1300N at seat loading point for 10 times, at least 10 s each time. Apply the downward force V_s of 1300N to a position 100 mm back from the front edge of the seat for 10 times, at least 10 s each time. The chair seat shall remain intact and the chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair. | PASS |
| Back static load test with flexibility assessment (Section 4.3.2) | Tested in accordance with Appendix C. With balancing seat force of 1300N on seat loading point, apply the force H_s of 560N perpendicular to the back 10 times, at least 10 s each time. The chair back shall remain intact and the chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair. | NA |
| Arm sideways static load test (Section 4.3.3) | Tested in accordance with Appendix D. Simultaneously apply an outward force H_a of 400N to the point along each arm most likely to cause failure. Apply the force 10 times, at least 10 s each time. The arms of the chair shall remain intact and the chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair. | NA |
| Arm downwards static load test (Section 4.3.4) | Tested in accordance with Appendix E. Apply a vertical force V_n of 800N to the point along one arm most likely to cause failure. Apply the force 10 times, at least 10 s each time. The arms of the chair shall remain intact and the chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair. | NA |
| Seat and back fatigue test (Section 4.3.5) | Tested in accordance with Appendix F. Apply the seat loading force of 950N at seat loading point. Apply the back loading force of 330N at back loading point or at a point 100 mm below the top of the back of the chair, whichever is the lower. Repeat the test for 50000 cycles. The chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair. | PASS |



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| Test Item | Test Method & Test Requirement | Test Result |
|---|--|-------------|
| Seat impact test (Section 4.3.6) | <p>Tested in accordance with Appendix G.</p> <p>Allow the impactor to fall freely onto the seat loading position from a height of 180mm. Repeat test for 4 more times respectively with the seat height in highest and lowest position.</p> <p>Allow the impactor to fall freely onto a point as near as the front edge of the seat as possible. Repeat test for 5 more times respectively with the seat height in highest and lowest position.</p> <p>The seat of the chair shall remain intact and the chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair.</p> | PASS |
| Back impact test (Section 4.3.7) | <p>Tested in accordance with Appendix H.</p> <p>Allow the impact hammer to fall through the vertical height of 210mm (or angle of 38°) and strike the top of the outer chair back in the centre 10 times with the pendulum arm vertical.</p> <p>The back of the chair shall remain intact and the chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair.</p> | NA |
| Arm impact test (Section 4.3.8) | <p>Tested in accordance with Appendix I.</p> <p>Swing the impact hammer through the vertical height of 210mm (or angle of 38°) to strike the outside face of the arm in an inward direction. Strike the arm at the position most likely to cause failure for a total of 10 times with the pendulum arm vertical.</p> <p>The arm of the chair shall remain intact and the chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair.</p> | NA |
| Drop test (Section 4.3.9) | <p>Tested in accordance with Appendix J.</p> <p>Support the chair so that on impact on one foot the base plane is at 10° to the horizontal. Lift the chair up to a height of 200mm and drop the chair onto the floor 10 times.</p> <p>The chair shall remain intact and shall be free of defects that will cause either injury to the user or loss of serviceability of the chair.</p> | PASS |
| Swivelling test (Section 4.3.10) | <p>Tested in accordance with Appendix K.</p> <p>Apply the vertical downward force of 950N to the seat loading position. Rotate the seat of the chair through an angle of 45° relative to the base. Repeat the test for 50000 cycles.</p> <p>The chair swiveling mechanism shall remain in working order.</p> | PASS |
| Rearwards overturning (all chairs) (Section 5.2.1) | <p>Tested in accordance with Appendix L.</p> <p>Set the chair to the highest position and apply a vertical force of 600 N to the seat loading position. Apply the overturning force F horizontally to the back of the chair either at a height of 300 mm above the unloaded seat, or at the top edge of the backrest, whichever is the lower. The chair shall not overturn.</p> <p>Determine the horizontal force F (N): $H \geq 720\text{mm}, F = 80\text{N};$ $H < 720\text{ mm}, F = 0,2857 (1000-H)$ where: H is the distance between the loaded seat and the floor, in mm</p> | NA |



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| Test Item | Test Method & Test Requirement | Test Result |
|--|--|-------------|
| Rearwards overturning of tilting or reclining chairs (Section 5.2.2) | Tested in accordance with Appendix M. Apply to $\theta \leq 70^\circ$ and δ between 90° and 120° . Set the chair to the highest position and apply 11 discs on the chair seat firmly settled against the contours of the back of the chair. The chair shall not overturn. | NA |
| Accidental rearward overturning (Section 5.2.3) | Tested in accordance with Appendix N. Set the chair to the highest position. Prevent rearwards movement of the chair then tilt the chair rearwards on its rear feet so that the front edge of the seat moves through a horizontal distance of 100 mm. Allow the chair to fall freely. The chair shall not overturn. | PASS |
| Rolling stability (Section 5.3) | Tested in accordance with Appendix O. Attach soft-tyred castors to the chair. Place the unloaded chair on the piece of flat steel and apply a force at a height 250 mm above the test surface to allow the chair to move at 50 mm/s across the floor. The rolling resistance force shall be at least 12 N. | NA |

Remark:

1. NA = Not applicable
2. Guide to application of service durability levels:

| Durability level | Application |
|------------------|-------------------------|
| Level 3 | Chairs for domestic use |



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Photo Appendix



Sample as received - View 1



Sample as received - View 2



Sample as received - View 3



Sample as received - View 4

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End of Report



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