

Test Report

No.: SDHGR 101202356FT

Date: Jan 30, 2011

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COMFORT OFFICE FURNITURE CO., LTD

NO.3 PARK. LUJING INDUSTRY ZONE, NANSHA ECONOMIC DEVELOPMENT DISTRICT, GUANG ZHOU CITY, GUANG DONG PROVINCE

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

Sample Description	: I00
Style / Item No.	: I00-BA-3D-HAM
Manufacturer	: COMFORT OFFICE FURNITURE CO., LTD
Test Performed	: EN 1335-2:2009 Office working chair – Part 2: Safety requirements & EN 1335-3:2009 Office working chair – Part 3: Test methods
Sample Receiving Date	: Dec 13, 2010
Test Performing Date	: Jan 30, 2011
Test Result(s)	: For further details, please refer to the following page(s)
Comments / Conclusion	: PASS

The Submitted sample met the requirements of EN 1335-2:2009 & EN 13353:2009

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



Jack Yao
Section Manager

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Test Conducted:

EN 1335-2:2009 Office working chair – Part 2: Safety requirements

EN 1335-3:2009 Office working chair – Part 3: Test methods

Test Items	Test Methods/Requirements	Test Results
Corners and edges, trapping, pinching, and shearing (EN 1335-2:2009 Clause 4.1.1)	The chair shall be so designed as to minimize the risk of injury to the user. All parts of the chair with which the user comes into contact, during intended use, shall be so designed that physical injury and damage to property are avoided. These requirements are met when: a) The safety distance of accessible movable parts is either $\leq 8\text{mm}$ or $\geq 25\text{mm}$ in any position during movement b) Accessible corners are rounded with minimum 2 mm radius c) The edges of the seat, back rest and arm rests which are in contact with the user when sitting in the chair are rounded with minimum 2 mm radius d) The edges of handles are rounded with minimum 2mm radius in the direction of the force applied e) All other edges are free from burrs and rounded or chamfered f) The ends of hollow components are closed or capped	Pass
Adjusting devices (EN 1335-2:2009 Clause 4.1.2)	Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided. It shall be possible to operate the adjusting device from sitting position in the chair.	Pass
Connections (EN 1335-2:2009 Clause 4.1.3)	It shall not be possible for any load bearing part of the chair to come loose unintentionally.	Pass
Avoidance of soiling (EN 1335-2:2009 Clause 4.1.4)	All parts which are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use.	Pass
Information for use (EN 1335-2:2009 Clause 5)	Each chair shall be accompanied by information for use in the language of the country in which it will be delivered to the end user. It shall contain at least following details: a) Information regarding the intended use; b) Information regarding possible adjustments and chair type; c) Instruction for operation the adjusting mechanisms; d) Instruction for the care and maintenance of the chair; e) Information regarding adjustments; f) Information for chairs with seat height adjustments with energy accumulators that only trained personnel may replace or repair seat height adjustment components with energy accumulators; g) Information on the choice of castors in relation to the floor surface.	Pass

To be continued...

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Test Items	Test Methods/Requirements	Test Results
The same chair was tested in the following sequence required by standard for stability, strength and durability, rolling resistance of the unloaded chair: Strength and durability requirements are fulfilled when after the tests specified in 7.2.1, 7.2.2, 7.2.6, 7.3.1 and 7.3.2 of EN 1335-3:2009 with the forces and numbers of cycles according to Table A.2 of EN 1335-2:2009: - there are no fractures of any member, joint or component, and - there is no loosening of joints intended to be rigid, and - no major structural element is significantly deformed and the chair fulfils its functions after removal of the test loads and when: - after the test in 7.2.3 of EN 1335-3:2009 with the forces and numbers of cycles according to Table A.2 of EN 1335-2:2009, the arm rests show no fracture. Stability requirements are fulfilled when during the tests specified in 7.1.1 to 7.1.7 of EN 1335-3:2009 with the forces and numbers of cycles according to Table A.1 of EN 1335-2:2009 the chair does not overbalance. Rolling resistance Requirements of the unloaded chair are met when: - the castors are of identical construction - the rolling resistance is ≥ 12 N when tested according to EN 1335-3:2009, 7.4		
Seat front edge static load test (EN 1335-3:2009 Clause 7.2.1)	Position the smaller seat loading pad at loading point "F" or "J". Apply a vertical downward force through the centre of the loading pad. Test force: 1600N Number of cycles: 10 cycles	Pass
Combined seat and back static load test (EN 1335-3:2009 Clause 7.2.2)	Apply a vertical force F_1 through the seat loading pad at point "A". Keep the seat loaded and apply a force F_2 through the centre of the back loading pad at point "B". When fully loaded the force shall act at $90^\circ \pm 10^\circ$ to the back rest plane. Remove the back force and then the seat force. Seat load : 1600N Back load : 560N Number of cycles: 10 cycles	Pass

To be continued...

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Test Items	Test Methods/Requirements	Test Results																														
Seat and back durability (EN 1335-3:2009 Clause 7.3.1)	The seat load shall be applied vertically using the seat loading pad. The back rest force shall be applied at an angle of $90^{\circ} \pm 10^{\circ}$ to the back rest when fully loaded using the back loading pad. All chairs shall be tested to steps 1 to 5. Chairs with a locking device(s) for seat and/or back rest angle movements shall be tested in step 2 first with the device(s) locked for half of the cycles and then with the device(s) unlocked for the other half of the cycles. For the first half of the cycles the back rest shall be in the upright position. In steps 3, 4 and 5 the mechanism shall be set free to move. One cycle shall consist of the application and removal of the force(s) at the respective loading point(s). Each step shall be completed before going to the next. First the seat force shall be applied and maintained while the back rest force is applied. <table> <tr> <th>Step</th><th>Force</th><th>Number of cycles</th></tr> <tr> <td>A</td><td>1500</td><td>120000</td></tr> <tr> <td>C</td><td>1200</td><td>80000</td></tr> <tr> <td>B</td><td>320</td><td></td></tr> <tr> <td>J</td><td>1200</td><td>20000</td></tr> <tr> <td>E</td><td>320</td><td></td></tr> <tr> <td>F</td><td>1200</td><td>20000</td></tr> <tr> <td>H</td><td>320</td><td></td></tr> <tr> <td>D</td><td>1100</td><td>20000</td></tr> <tr> <td>G</td><td>1100</td><td></td></tr> </table>	Step	Force	Number of cycles	A	1500	120000	C	1200	80000	B	320		J	1200	20000	E	320		F	1200	20000	H	320		D	1100	20000	G	1100		Pass
Step	Force	Number of cycles																														
A	1500	120000																														
C	1200	80000																														
B	320																															
J	1200	20000																														
E	320																															
F	1200	20000																														
H	320																															
D	1100	20000																														
G	1100																															
Foot rest static load test (EN 1335-3:2009 Clause 7.2.6)	Apply a vertical force acting 80 mm from front edge of the load bearing structure of the foot rest at those points most likely to cause failure. For round cross section ring shaped footrests, the force shall be applied through the centre of the ring cross section. If the chair tends to overturn load the seat to prevent overturning and report this. Test force: 1300N Number of cycles: 10 cycles	NA																														
Arm rest durability (EN 1335-3:2009 Clause 7.3.2)	Apply simultaneously and cyclically the force on each arm rest at points 100 mm behind the foremost point of the arm rest length. Apply a force of (10 ± 5) N through a loading device in principle functioning as shown in Figure 4. With this force applied adjust the apparatus so that each "arm" of the test apparatus has an angle of $10^{\circ} \pm 1^{\circ}$ to the vertical. The length of the "arm" of the test apparatus shall be $600 \text{ mm} \pm 10 \text{ mm}$. The arm rests shall be allowed to deform freely. Test force: 400N Number of cycles: 60000 cycles	Pass																														

To be continued...

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Test Items	Test Methods/Requirements	Test Results
Arm rest downward static load test – central (EN 1335-3:2009 Clause 7.2.3)	The arm rests shall be loaded vertically by means of the local loading pads. The loading points shall be at the mid point of the arm rest length and centred side to side. Apply the force to both arm rests simultaneously. Static load: 750N Number of cycles: 5 cycles	Pass
Front edge overturning (EN 1335-3:2009 Clause 7.1.1)	Fix the strap to the chair as shown in Figure 7, i.e. the force is applied at the point on the front edge that is furthest from the axis of rotation, and allow the mass M_1 to hang freely. Test load : 27kg	Pass
Forwards overturning (EN 1335-3:2009 Clause 7.1.2)	Apply by means of the stability loading device a vertical force F_1 acting 60 mm from the front edge of the load bearing structure of the seat at those points most likely to result in overturning. Apply for at least 5 s a horizontal outwards force F_2 from the point on the seat surface where the vertical force is applied. Seat load : 600N Horizontal force: 20N	Pass
Forwards overturning for chairs with footrest (EN 1335-3:2009 Clause 7.1.3)	For chairs with footrests repeat the principle of 7.1.2 on the footrest. For round cross section ring shaped footrests, the vertical force F_1 shall be applied through the centre of the ring cross section. Seat load : 1100N Horizontal force: 20N	NA
Sideways overturning for chair without arm rests (EN 1335-3:2009 Clause 7.1.4)	Apply by means of the stability loading device a vertical force F_1 acting 60 mm from the side edge of the load bearing structure of the seat at those points most likely to result in overturning. Apply for at least 5 s a horizontal sideways force F_2 outwards from the point on the seat surface where the vertical force is applied. Seat load : 600N Horizontal force: 20N	NA
Sideways overturning for chair with arm rests (EN 1335-3:2009 Clause 7.1.5)	Apply by means of the stability loading device a vertical force F_1 acting at a point 100 mm from the fore and aft centre line of the seat at the side where the supporting points are restrained and between 175 mm and 250 mm forward of the rear edge of the seat. Apply a vertical downward force F_2 acting at points on the arm rest which is on the same side as the restrained supporting points up to a maximum 40 mm inwards from the outer edge of the upper surface of the arm rest, but not beyond the centre of the arm rest, and at the most adverse position along its length. Apply a horizontal sideways force F_3 outwards from the same point for at least 5 s. Seat load : 250N Arm load : 350N Horizontal force : 20N	Pass

To be continued...

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Rearwards overturning for chairs without back rest inclination (EN 1335-3:2009 Clause 7.1.6)	A vertical force F_1 shall be applied at point "A" and a horizontal force F_2 shall be applied at point "B". If the back rest pad is pivoting around a horizontal axis above the height of the seat and is free to move, the horizontal force shall be applied on the axis. If height adjustable, the axis shall be set as close as possible to 300 mm above point "A". Seat load : 600N Horizontal force: 192N	Pass
Rearwards overturning for chairs with back rest inclination (EN 1335-3:2009 Clause 7.1.7)	Load the chair with discs so that the discs are firmly settled against the back rest. If the height of the stack of discs exceeds the height of the back rest, prevent the upper discs from sliding off by the use of a light support. Seat load : 13 testing discs	Pass
Arm rest downward static load test – central (EN 1335-3:2009 Clause 7.2.3)	The arm rests shall be loaded vertically by means of the local loading pads. The loading points shall be at the mid point of the arm rest length and centred side to side. Apply the force to both arm rests simultaneously. Static load: 900N Number of cycles: 5 cycles	Pass
Rolling resistance of the unloaded chair (EN 1335-3:2009 Clause 7.4)	Record the force used to push or pull the chair over the distance from 250mm to 500mm as the rolling resistance.	Pass
Functional tests (EN1335-3:2009 Annex C)		
Arm rest downward static load test –front (EN 1335-3:2009 Clause 7.2.4)	The arm rests shall be loaded vertically by means of the local loading pads. The loading points shall be 75 mm from the front edge and centred side to side. Apply the force to both arm rests simultaneously. Static Load: 450N Number of cycles: 5 cycles	Pass
Arm rest sideways static load test (EN 1335-3:2009 Clause 7.2.5)	Apply an outward horizontal force to both arm rests simultaneously. Apply the forces to the edge of the arm rest at the point along the arm rest most likely to cause failure but not less than 75 mm from the front or rear edge. Static Load: 400N Number of cycles: 10 cycles	Pass
Swivel test (EN 1335-3:2009 Clause 7.3.3)	The base shall be fixed, the upper part shall be loosely fixed in such a way as not to hinder the rotation of the base. Point A, loading M1: 60kg and Point C, loading M2 35kg The angle of rotation: 360 rate: 10±5 cycles/min Number of cycles: 120 000 cycles:	Pass

To be continued...

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Foot rest durability (EN 1335-3:2009 Clause 7.3.4)	Position: Most likely to cause failure but less than 80mm from the front edge. Load Force: 900N; Number of cycles: 50 000	NA
Castor and chair base durability (EN 1335-3:2009 Clause 7.3.5)	Not apply to chairs with castors which are braked when the chair is loaded. Point A , loading M1: 110kg; Rate: 6 cycles/min Number of cycles: 36 000	Pass

Remark: N/A--Not Applicable.

Photo Appendix



Sample as received – View 1



Sample as received – View 2



Sample as received – View 3

End of Report

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