

TEST REPORT

Report No. : HL30274/2005

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Date : APR. 14, 2005

SUDEX ARGENTINA S.R.L.

The following merchandise was submitted and identified by the vendor as:

Type of Product: Office Mesh Chair
Style/Item No: Mesh e Chair
Manufacture/Vendor: SUDEX ARGENTINA S.R.L.
Country of Origin: Taiwan

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required: For compliance with EN 1335-2/3:2000 Office furniture – Office work chair- Safety requirements and Safety test methods

Test Method: Tested according to test procedures with the EN 1335-2/3:2000

and Results: ---SEE ATTACHED SHEETS---

Date of testing: Mar. 23, 2005 ~ Apr. 14, 2005

Conclusion: In our opinion, the submitted sample complies with EN 1335-2/3:2000 Office furniture – Office work chair-Safety requirements and Safety test methods.

Signed for and on behalf of
SGS Taiwan Ltd.


Owen Cheng
Supervisor

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Test Results : EN 1335-2/3:2000 Office furniture – Office work chair

<u>Clause</u>	<u>Results</u>
5. Stability	
5.1 <u>Front edge overbalancing test</u>	<u>Pass</u>
<p>Tested to subsection 5.1 test procedures.</p> <p>--Fix the strap to chair, the force is applied at the point on the front edge that is furthest from the axis of rotation, and allow the 27 kg mass to hang freely</p> <p><u>Requirements:</u> The chair shall not overbalance</p>	
5.2 <u>Forwards overbalancing</u>	<u>Pass</u>
<p>Tested to subsection 5.2 test procedures.</p> <p>--Apply a vertical force of 600 N by means of the smaller seat loading pad acting 60 mm from the front edge of the load bearing structure at those points most likely to result in overbalancing. Apply a horizontal force of 20 N outwards from the point where the base of the loading pad meets the upper surface of the seat for at least 5 sec.</p> <p><u>Requirements:</u> The chair shall not overbalance.</p>	
5.3 <u>Sideways overbalancing</u>	
5.3.1 <u>Sideways overbalancing for chairs without arm rests</u>	<u>N/A</u>
5.3.2 <u>Sideways overbalancing for chairs with arm rests</u>	<u>Pass</u>
<p>Tested to subsection 5.3.2 test procedures.</p> <p>--Apply a vertical force of 250 N by means of the smaller seat loading pad acting at a point 100 mm to the side of the median plane where the supporting points are restrained and between 175 mm and 250 mm forward of the rear edge of the seat and as close as possible to the side edge. Apply a vertical force of 350 N by means of the smaller seat loading pad acting at a points on the arm rest up to a maximum 40 mm inwards from the outer edge 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 of 20 N outwards from the point where the base of the loading pad meets the upper surface of the arm rest for at least 5 sec.</p> <p><u>Requirements:</u> The chair shall not overbalance.</p>	

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<u>Clause</u>	<u>Results</u>
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5.4 Rearwards overbalancing

5.4.1 Determination of the maximum offset of the back rest

Pass

Tested to subsection 5.4.1 test procedures.

--During the test the base of the chair shall be prevented from lifting by a mass of ≥ 75 kg at point "A". If applicable, the reclining force of the back rest shall be set at its lowest level. Tilting devices of the back rest shall be unlocked so that the back rest can move freely.

--A force of 315 N shall be applied to the back rest at a point 220 mm (determined with the back rest in forward position) vertical above point "A" perpendicular to the back rest when fully loaded.

--The offset of the back rest is the horizontal distance between the supporting point "S" of the back rest under load and the axis of rotation of the chair.

Requirements: Record the maximum offset m of the back rest.

*Remark: m = 219 mm

5.4.2 Chairs without back rest inclination

Pass

Tested to subsection 5.4.2 test procedures.

--A vertical force of 600 N shall be applied at point "A" and a horizontal force of 192 N shall be applied at point "B"

Requirements: The chair shall not overbalance.

5.4.3 Chairs with back rest inclination

N/A

Tested to subsection 5.4.3 test procedures.

---Without stops. Load 13 discs on seat (350 mm Dia, 48 mm Thickness)

Requirements: The chair shall not overbalance.

6. Testing of rolling resistance of the unloaded chair

6.1 Test method

Pass

Tested to subsection 6.1 test procedures.

--The chair shall be placed on the test surface and shall be pushed over a distance of at least 550 mm. A speed of (50 \pm 5) mm/s shall be maintained over the measuring distance.

The force shall be applied at a height of (200 \pm 50) mm above the floor surface.

Requirements: The unloaded chair shall not roll unintentionally. The rolling resistance is >15 N with castors Type H.

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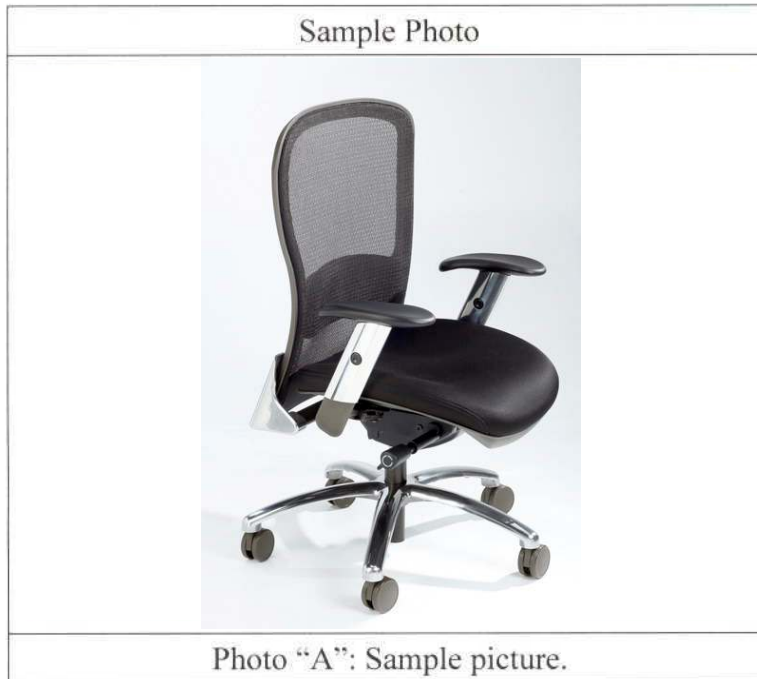
<u>Clause</u>	<u>Results</u>
<p>6.2 <u>Fatigue</u></p> <p>Tested to subsection 6.2 test procedures.</p> <p>--The castors shall be left free to swivel. The table shall be rotated with a speed of 6 mm⁻¹. The angle of rotation shall be from 0 to 180 deg. and back. At each change of direction the table stands still for 2 sec. During testing the chair shall be loaded cyclically with 75 kg at point "A" for 60 s and unloaded for 30 s. The duration of the fatigue test shall be 100 h.</p> <p><u>Requirements</u>: The chair shall not any fracture or damage.</p>	<u>Pass</u>
<p>7. <u>Testing of seat and back rest</u></p> <p>Tested to subsection 7.1 and 7.2 test procedures.</p> <p>--The seat and back rest shall be tested as specified in table 3.</p> <p>--Each step shall be completed before going to the next.</p> <p><u>Requirements</u>: The chair shall not any fracture or damage.</p>	<u>Pass</u>
<p>8. <u>Additional test for back rests which are rotatable around a horizontal axis</u></p>	<u>Pass</u>
<p>9. <u>Testing of arm rests</u></p> <p>9.1 <u>Testing of durability</u></p> <p>Tested to subsection 9.1 test procedures.</p> <p>--Using the test principles, apply a force of 10 N. With this force applied adjust the apparatus so that each "arm" of the test apparatus has an angle of 10±1 to the vertical. The length of the "arm" of the test apparatus shall be 600 mm ±10 mm when the "arm" is unloaded. The arm rests shall be allowed to deform freely.</p> <p>--Each arm rest shall be loaded with 400 N, 60,000 times.</p> <p><u>Requirements</u>: The chair shall not any fracture or damage.</p>	<u>Pass</u>
<p>9.2 <u>Vertical static load test</u></p> <p>Tested to subsection 9.2 test procedures.</p> <p>--9.2.1 Function load: Apply a force of 750 N five times to each arm rest.</p> <p>--9.2.2 Overload load: Apply a force of 900 N five times to each arm rest.</p> <p><u>Requirements</u>: The chair shall not any fracture or damage.</p>	<u>Pass</u>

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---End of Report---