# TEST REPORT

**On Behalf of**

| | |
|---|---|
| Prepared For : | |
| Trade Mark : | **N/A** |
| Product Name : | **OFFICE CHAIR** |
| Model(s) : | **DELPHI CHAIR** |
| Prepared By: | **Shenzhen CCT Testing Technology Co., Ltd.**<br>7 F, Xiwan Building, No. 36, Fucheng Road, Xixiang Street, Bao'an District, Shenzhen<br>Tel: +86 755-3315 7675 Fax: +86 755-33609691<br>Web: www.cct-prc.com Email: cct@cct-prc.com |
| Test Date: | **Nov. 17, 2017- Nov. 25, 2017** |
| Date of Report: | **Nov. 25, 2017** |
| Report No. : | **CCT17112502ZRS** |

**Note:** This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen CCT Testing Technology Co., Ltd.

# TEST REPORT

EN1335-1: 2000
Office furniture - Office work chair - Part 1: Dimensions - Determination of dimensions
EN1335-2: 2009
Office furniture - Office work chair - Part 2: Safety requirements
EN1335-3: 2009
Office furniture - Office work chair - Part 3: Test methods

| | |
|---|---|
| Reference No. .....: | CCT17112502ZRS |
| Date of issue .....: | Nov. 25, 2017 |
| Contents.....: | 9 pages including the attachments |

Testing laboratory

| | |
|---|---|
| Name.....: | Shenzhen CCT Testing Technology Co., Ltd.. |
| Address .....: | 7 F, Xiwan Building, No. 36, Fucheng Road, Xixiang Street, Bao'an District, Shenzhen |
| Testing location .....: | Same as above |

Client

| | |
|---|---|
| Name……: | |
| Address ……: | |

Test specification

| | |
|---|---|
| Standard.....: | EN1335-1: 2000&EN1335-2: 2009&EN1335-3: 2009 |
| Test procedure .....: | GPSD |
| Procedure deviation .....: | N.A. |
| Non-standard test method.....: | N.A. |

Test item

| | |
|---|---|
| Description……..: | OFFICE CHAIR |
| Trademark……..: | N/A |
| Model and/or type reference.....: | DELPHI CHAIR |
| Manufacturer .....: | |
| Address .....……: | |

## Test Result

| Test Standards | Conclusion |
|---|---|
| EN1335-1: 2000 Office furniture - Office work chair - Part 1: Dimensions - Determination of dimensions | P |
| EN1335-2: 2009 Office furniture - Office work chair - Part 2: Safety requirements | P |
| EN1335-3: 2009 Office furniture - Office work chair - Part 3: Test methods | P |

**REMARKS:**

1. This statement is based upon the testing of the submitted samples. It is incumbent on the manufacturer to assure the constant quality of the product.
2. The test report is valid for above tested sample only and shall not be reproduced In part without written approval of the company.
3. Characterization & Condition of sample: Normal.
4. Ambient Condition During Testing:(15~22)℃,(25~50)％RH.

Signed for and on behalf of CCT

**Tested By:** Mark ----------

**Examine By :** Irence ----------

**Approved By:** Toby ----------

**Lab Manager : Toby**

**Date:** Nov. 25, 2017 ----------

SHENZHEN CCT TESTING TECHNOLOGY CO.,LTD CCT Testing Service * * *

## TESTS CONDUCTED:

| Clause | Requirement – Test | Result - Remark | Verdict |
|---|---|---|---|
| **EN 1335-1: Determination of dimensions** | | | --- |
| **4** | **Dimensions** | | |
| | Provided sufficient height and depth to provided all users with a sitting position suited to their activity and their height | For the values of the test referred to Table 1 | P |
| **EN1335-2: Safety requirements** | | | |
| 4 | Safety requirements | | P |
| 4.1 | Corners and edges, trapping, pinching and shearing | | P |
| | The chair shall be so designed as to minimise the risk of injury to the user. These requirements are met when: | Complied, no hazards to user | P |
| | a) the safety distance of accessible movable parts is either ≤ 8 mm or ≥ 25 mm in any position during movement; | ≤ 8 mm and ≥ 25 mm | P |
| | b) accessible corners are rounded with minimum 2 mm radius; | >2 mm radius | P |
| | 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; | >2 mm radius | P |
| | d) the edges of handles are rounded with minimum 2 mm radius in the direction of the force applied; | >2 mm radius | P |
| | e) all other edges are free from burrs and rounded or chamfered; | Smooth edges, no hazards | P |
| | f) the ends of accessible hollow components are closed or capped. | Closed /capped | P |
| 4.1.2 | Adjusting devices | | P |
| | Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided. | Considered, no hazards to adjusting | P |
| | It shall be possible to operate the adjusting devices from sitting position in the chair | Sitting adjusting is allowed | P |
| 4.1.3 | Connections | | P |
| | It shall not be possible for any load bearing part of the chair to come loose unintentionally. | No moved for load bearing part | P |
| 4.1.4 | Avoidance of soiling | | P |
| | All parts which are lubricated to assist sliding (greasing, lubricating, etc.) shall be designed to protect users from lubricant stains when in normal use. | Considered, no any lubricant stains can be contacted | P |
| 4.2 | Test sequence | Considered, see bellow tests | P |
| | The same chair shall be tested the following sequence: | | P |
| | a) stability tests (optional); | | P |
| | b) rolling resistance test (optional); | | N |
| | seat and back rest tests; | | P |
| | d) foot rest static load test; | | N |
| | e) arm rests durability test; | | P |
| | f) arm rest downward static load test - central (see Table A.2, Footnote a); | | P |
| | g) stability tests; | | P |
| | h) arm rest downward static load test - central (see Table A.2, Footnote b); | | P |
| | i) rolling resistance test. | | P |
| 4.3 | Stability during use | | P |

| Clause | Requirement – Test | Result - Remark | Verdict |
|---|---|---|---|
| **EN 1335-1: Determination of dimensions** | | | --- |
| **4** | **Dimensions** | | |
| | Provided sufficient height and depth to provided all users with a sitting position suited to their activity and their height | For the values of the test referred to Table 1 | P |
| | The chair shall not overbalance under the following conditions: | See attachment tables of tests | P |
| | a) by pressing down on the front edge of the seat surface in the most adverse position; | No overbalance | P |
| | b) by leaning out over the arm rests; | No overbalance | P |
| | c) by leaning against the back rest; | No overbalance | P |
| | d) by sitting on the front edge. | No overbalance | P |
| 4.4 | Rolling resistance of the unloaded chair | See attachment tables of tests | P |
| | The unloaded chair shall not roll unintentionally. | | P |
| | This requirement is met when | | P |
| | a) the castors are of identical construction; | | P |
| | b) the rolling resistance is ≥ 12 N when tested according to EN 1335-3:2009, 7.4. | ≥12N | P |
| 4.5 | Strength and durability | | P |
| | The chair shall be constructed to ensure that it does not create a risk of injury to the user of the chair under the following conditions: | | P |
| | a) sitting on the seat, both centrally and off-centre; | No risk of injury to the user | P |
| | b) moving forward, backwards, and sideways while sitting in the chair; | No risk of injury to the user | P |
| | c) leaning over the arm rests; | No risk of injury to the user | P |
| | d) pressing down on the arm rests while getting up from the chair. | No risk of injury to the user | P |
| | e) there are no fractures of any member, joint or component, and | No fractures of any member, joint or component | P |
| | f) there is no loosening of joints intended to be rigid, and | no loosening of joints intended to be rigid | P |
| | g) no major structural element is significantly deformed and the chair fulfils its functions after removal of the test loads | | P |
| | and when: h) 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 this standard, the arm rests show no fracture. | | P |
| 5 | Information for use | | P |
| | 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 the following details: | English used | P |
| | a) information regarding the intended use; | Computer chair | P |
| | b) information regarding possible adjustments and chair type (see EN 1335-1:2000); | See above | P |
| | c) instruction for operating the adjusting mechanisms; | See user manual | P |
| | d) instruction for the care and maintenance of the | See user manual | P |

| Clause | Requirement – Test | Result - Remark | Verdict |
|---|---|---|---|
| **EN 1335-1: Determination of dimensions** | | | --- |
| **4** | **Dimensions** | | |
| | Provided sufficient height and depth to provided all users with a sitting position suited to their activity and their height | For the values of the test referred to Table 1 | P |
| | chair; | | |
| | e) information regarding all adjustments; | See user manual | P |
| | 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; | No such components | P |
| | g) informationon the choice of castors in relation to the floor surface. | Clearly marked in user manual | P |
| **EN 1335- 3: Test methods** | | | |
| 4 | Preliminary preparation | | P |
| | The unit shall be assembled and/or configured according to the instructions supplied with it. | Complied, All tests were performed on standard terms | P |
| 4.2 | Test equipment | | P |
| | Unless otherwise specified, the tests may be applied by any suitable device because results are dependent | Complied, suitable devices were used | P |
| 4.3 | Application of forces | | P |
| | The forces in the static load tests shall be applied sufficiently slowly to ensure that negligible dynamic force is applied. | Considered | P |
| 4.4 | Tolerances | | P |
| | Tolerances shall be applicable: | Forces: ± 5 %<br>Masses: ± 1 %<br>Dimensions: ± 5 mm<br>Dimension on soft surfaces ± 1 mm<br>All other surfaces<br>Angles: ± 2°<br>Positioning ± 5 mm | P |
| 4.5 | Sequence of testing | | P |
| | All applicable tests shall be carried out on the same sample. | The same sample used | P |
| | The sequence of the safety tests shall be as specified in EN 1335-2:2009, 4.2. | Complied with the sequence | P |
| 4.6 | Inspection and assessment of results | Complied, see bellow tests | P |
| | After completion of each test, inspect the unit again. Record any changes including: | | P |
| | a) fracture of any component or joint; | | P |
| | b) loosening of any joint intended to be rigid, which can be demonstrated by hand pressure; | | P |
| | c) deformation or wear of any part or component such that its function is impaired; | | P |
| | d) loosening of any means of fixing components to the unit; | | P |
| | e) changes that may affect stability. | | P |

Note: P means meet the requirement, N/A means not applicable, F means does not meet the requirement.

## ATTACHMENT (I): TABLES

**Table 1: Determination of dimensions**

| Symb | Description | Requirement according to EN 1335 for Type B | Measure value | Verdict |
|---|---|---|---|---|
| | Seat | | | |
| a | Seat height | Adjustable:min.400-Max.510mm<br>Adjustment range: min.80mm | 430-530mm<br>100mm | P |
| b | Seat depth | No adjustable:<br>Adjustable:min.400-Max.420mm<br>Adjustment range: min.50mm | 460 mm<br>n. a. | P |
| c | Depth of seat surface | Min. 380mm | 490mm | P |
| d | Seat width | Min.400mm | 470mm | P |
| e | Inclination of the seat surface | No adjustable:<br>Adjustable:min.-2° - max.7°<br>Adjustment range: min.6° | <br><br>-2.7° . | P |
| | Back rest | | | |
| f | Height of the back supporting point “S” above surface | No adjustable:<br>Adjustable:min.170-220mm<br>Adjustment range: min.50mm | 240mm<br>n. a. | P |
| g | Height of the back pad<br>-adjustable in height<br>-non-adjustable in height | <br>Min. 220mm<br><br>Min. 260mm | <br>n. a.<br><br>510mm | P |
| h | Height of the upper edge of the back rest above the seat surface | Min. 360mm | 725mm | P |
| i | Back rest width | Min. 360mm | 440mm | P |
| k | Horizontal radius of bake rest | Min. 400mm | 450mm | P |
| l | Back rest inclination adjustment | Min. 15° | n. a. | P |
| | Arm rest | | | |
| n | Length of the useful arm rest | Min. 200mm | 235mm | P |
| o | Width of the useful area of the arm rest | Min. 40mm | 75mm | P |
| P | Height of the useful area of the arm rest above the seat | Non adjustable 200-250mm<br>Adjustable 200-250mm | . n.a<br>180-280 | P |
| q | Distance from the front of the arm rest to the seat | Min.100mm | 130mm | P |
| r | Clear width between the useful area of the rests | Min.460 | 445mm | P |
| | Underframe | | | |
| s | Maximum offset of the underframe | Max.365/415mm | 310mm | P |
| t | Stability dimension | Min.195mm | 270mm | P |

# ATTACHMENT: REAL PHOTOS OF EUT



Photo. 1



Photo. 2



Photo. 3



Photo. 4

********** END OF THE REPORT **********