

## Test Report

No.: SDHL1605008992FT

Date: Jun.20, 2016

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FOSHAN ZHONG MENG SHENG YE OFFICE FURNITURE CO.,LTD.  
NO.6,GAOJIAO NANFANG INDUSTRIAL AREA, LONGJIANG TOWN,  
SHUNDE DISTRICT, FOSHAN CITY, GUANGDONG PROVINCE, CHINA.

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

Sample Description : OFFICE CHAIR  
 Style / Item No. : ZM-411B-1  
 Manufacturer : FOSHAN ZHONG MENG SHENG YE OFFICE FURNITURE CO.,LTD.  
 Sample Receiving Date : May 30, 2016  
 Sample 1<sup>st</sup> Resubmission Date : Jun.03, 2016  
 Sample 2<sup>nd</sup> Resubmission Date : Jun.15, 2016  
 Test Performing Date : May 30, 2016 to Jun.20, 2016

### Test Result Summary

| Test(s) Requested  | Result(s) |
|--|-----------|
| Clause 5, 6, 8, 13 & 14 of ANSI/BIFMA X5.1:2011 (Type I & III) | : PASS    |

#### Summary:

1. For further details, please refer to the following page(s).

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



Bill Wang  
Approved signatory



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**TESTS AND RESULTS**

**Test Conducted:**

Clause 5, 6, 8, 13 & 14 of ANSI/BIFMA X5.1:2011 General-Purpose Office Chairs – Tests.

**No. of Sample:**

1 piece(s) (Sample 1). For more sample information and pictures, please refer to the following page.

**Chair Type:** Type I & III

| Test and Requirements   | Test Results |
|---|--------------|
| <b>5 Backrest Strength Test - Static - Type I</b>   |              |
| <b>5.4.1 Functional Load</b><br>There shall be no loss of serviceability to the chair when 890 N (200 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 90 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees ± 10 degrees throughout the loading of the backrest.   | PASS         |
| <b>5.4.2 Proof Load</b><br>There shall be no sudden and major change in the structural integrity of the chair, loss of serviceability is acceptable, when 1334 N (300 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 90 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees ± 10 degrees throughout the loading of the backrest. | PASS         |
| <b>6 Backrest Strength Test - Static - Type II &amp; III</b>  |              |
| <b>6.4.1 Functional Load</b><br>There shall be no loss of serviceability to the chair when 667 N (150 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 90 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees ± 10 degrees throughout the loading of the backrest.   | PASS         |
| <b>6.4.2 Proof Load</b><br>There shall be no sudden and major change in the structural integrity of the chair, loss of serviceability is acceptable, when 1112 N (250 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 90 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees ± 10 degrees throughout the loading of the backrest. | PASS         |
| <b>8 Drop Test - Dynamic</b>  |              |
| <b>8.4.1 Functional Load Test</b><br>There shall be no loss of serviceability when a test bag weighing 102 kg (225 lb.) is free fell from 152 mm (6 in.) above the uncompressed seat to the specified position on seat. Remove the bag, and set height to its lowest position and repeat the test for chairs with seat height adjustment features.  | PASS         |



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| Test and Requirements  | Test Results |
|--|--------------|
| <p><b>8.4.2 Proof Load Test</b><br/>           There shall be no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable when a test bag weighing 136 kg (300 lb.) is free fell from 152 mm (6 in.) above the uncompressed seat to the specified position on seat. Remove the bag, and set height to its lowest position and repeat the test for chairs with seat height adjustment features.</p>   | <p>PASS</p>  |
| <p><b>13 Arm Strength Test - Vertical - Static</b></p>   |              |
| <p><b>13.4.1 Functional Load</b><br/>           Apply an initially vertical pull force of 750N (169lbs.) to the load adapter which is 127 mm (5 in.) long and at least as wide as the width of the arm shall be attached to the top of the arm rest structure such that the load will be applied at the apparent weakest point that is forward of the chair backrest, for one (1) minute.<br/>           There shall be no loss of serviceability. For a height adjustable arm, failure to hold its height adjustment position to within 6 mm (0.25 in.) from its original set position as the result of the loading is considered a loss of serviceability.</p> | <p>PASS</p>  |
| <p><b>13.4.2 Proof Load</b><br/>           Apply an initially vertical pull force of 1125N (253 lbs.) to the load adapter which is 127 mm (5 in.) long and at least as wide as the width of the arm shall be attached to the top of the arm rest structure such that the load will be applied at the apparent weakest point that is forward of the chair backrest, for one (1) minute.<br/>           There shall be no sudden and major change in the structural integrity of the chair. For a height adjustable arm, a sudden drop in height of greater than 25 mm (1 in.) does not meet this requirement. Loss of serviceability is acceptable.</p>           | <p>PASS</p>  |
| <p><b>14 Arm Strength Test - Horizontal - Static</b></p>   |              |
| <p><b>14.4.1 Functional Load</b><br/>           Apply an initially horizontal pull force of 445 N (100 lbf.) to the load adapter which is a loading device or strap, not greater than 25 mm (1 in.) in horizontal width, shall be attached to the arm so that the load is initially applied horizontally to the armrest structure at the apparent weakest point (for armrests that pivot in the horizontal plane, apply the load at the pivot point), for one (1) minute in the outward direction.<br/>           A functional load applied once shall cause no loss of serviceability.</p>  | <p>PASS</p>  |
| <p><b>14.4.2 Proof Load</b><br/>           Apply an initially horizontal pull force of 667 N (150 lbf.) to the load adapter which is a loading device or strap, not greater than 25 mm (1 in.) in horizontal width, shall be attached to the arm so that the load is initially applied horizontally to the armrest structure at the apparent weakest point (for armrests that pivot in the horizontal plane, apply the load at the pivot point), for one (1) minute in the outward direction.<br/>           A proof load applied once shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.</p> | <p>PASS</p>  |

**Remark:**

1. N/A – Not applicable; N/R – Not Requested; N/P – Not provided.
2. For the sample information and pictures, please refer to the following page.



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**SAMPLE INFORMATION AND PICTURES**

**Weight:** 18.90 kg

**Overall Dimensions:** 718 mm L x 705 mm W x 975~1085 mm H

**Other Dimensions:** Base radius, 340 mm

**Sample as Received**



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

