

## Test Report

No.: SDHL1709018843FT

Date: Sep.13, 2017

Page 1 of 5

NATIONAL PUBLIC SEATING  
149 ENTIN ROAD, CLIFTON NJ 07014, U.S.A.

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

Sample Description : STOOL  
Buyer Item No. : 6800 SERIES  
Buyer : NATIONAL PUBLIC SEATING  
Manufacturer :  
Supplier :  
Country of Origin : CHINA  
Country of Destination : UNITE STATES  
Sample Receiving Date : Sep.05, 2017  
Test Performing Date : Sep.05, 2017 to Sep.13, 2017

### Test Result Summary

Test(s) Requested	Result(s)
Clause 7, 11 and 17 of ANSI/BIFMA X5.1-2017	PASS
<b>Summary:</b>	
1. For further details, please refer to the following page(s).	

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

Caming Fan  
Approved signatory



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TESTS AND RESULTS

**Test Conducted:**

Clause 7, 11 and 17 of ANSI/BIFMA X5.1-2017 General-Purpose Office Chairs – Tests.

**No. of Sample:**

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

Test and Requirements	Test Results
<b>7 Drop Test - Dynamic</b>	
<b>7.4.1 Functional Load Test</b>	
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
<b>7.4.2 Proof Load Test</b>	
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.	PASS
<b>11 Stability Tests</b>	
<b>11.3.1 Rear Stability Test for Type III Chairs</b>	
Place a support fixture made of a 1.5 mm ± 0.15 mm (0.060 in. ± 0.006 in.) thick polypropylene, 356 mm (14 in.) wide and 711 mm (28 in.) tall against the chair back so that it approximates the contour of the back. Load the chair with 6 disks (10 kg each). Place the first disk on the seat using the Template from Appendix G. As each disk is added to the stack slide it along the lower disk until it contacts the support fixture. Apply a rearward force parallel to the top surface of the highest disk. The location of the force application is 6 mm (0.25 in.) from the top of the disk. For chairs with seat height (as measured at the front of the bottom of the lowest disk when all disks are in the chair) less than 710 mm (28.0 in.), calculate the force as follows: <ul style="list-style-type: none"> <li>• <math>F = 0.1964 (1195 - H)</math> Newton. H is the seat height in mm.</li> <li>• <math>[F = 1.1 (47 - H)</math> pounds force.]. H is the seat height in inches.</li> </ul> For chairs with seat height equal to or greater than 710 mm (28.0 in.), a fixed force of 93 N (20.9 lbf.) shall be applied. The chair shall not tip over.	N/A
<b>11.3.2 Rear Stability Test for Type I and II Chairs</b>	
Place a support fixture made of a 1.5 mm ± 0.15 mm (0.060 in. ± 0.006 in.) thick polypropylene, 356 mm (14 in.) wide and 711 mm (28 in.) tall against the chair back so that it approximates the contour of the back. Load the chair with 13 disks. Place the first disk on the seat using the Template from Appendix G. As each disk is added to the stack slide it along the lower disk until it contacts the support fixture. If the chair does not tip over and the tilt mechanism does not tilt to its most rearward position (i.e., at its tilt stop) when the disks are placed in the chair, the chair shall also be tested according to 11.3.1 with the chair in the unlocked position. The chair shall not tip over.	N/A



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Shunde Branch

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Test and Requirements	Test Results
<p><b>11.4 Front Stability</b>  <u>Test Procedure</u>            Apply a vertical load of 61kg (135 lbf.), through a 200 mm (7.87 in.) diameter disk, the center of which is 60 mm (2.4 in.) from the front center edge of the load-bearing surface of the seat. Apply a horizontal force of 20 N (4.5 lbf.) at the same height that the vertical force is applied. The force shall be coincident with the side-to-side centerline of the seat.</p> <p><u>Test Procedure - Alternate</u>            This alternate method may be used on chairs that have a seat surface that will support the stability loading fixture without the use of the front-stability loading disk(i.e., hard surfaced seats or seats with minimal cushion).            Apply a vertical load of 61kg (135 lbf.), by means of the front stability loading fixture at a point 60 mm (2.4 in.) from the front center edge of the load-bearing surface of the chair. Apply a horizontal force of 20 N (4.5 lbf.) at the same height that the vertical force is applied. The force shall be coincident with the side-to-side centerline of the seat.            The chair shall not tip over as the result of the force application.</p>	<p>PASS</p>
<p><b>17 Leg Strength Test - Front and Side Application</b></p>	
<p><b>17.3.2.1 Front Load Test- Functional Test</b>            The loading device shall be attached to the chair so that an initially horizontal force is applied inward and parallel to the front-to-rear axis of the chair, between 13 mm (0.5 in.) and 38 mm (1.5 in.) from the bottom of a leg. A force of 334N (75lbf.) is applied once to each front leg individually for 1 minute.            Functional load(s) shall cause no loss of serviceability.  <i>Note: For chairs with casters, apply the load to the chair leg, but not more than 13 mm (0.5 in.) from the point of caster attachment (bottom of the leg). The load shall be applied to the apparent weakest point of the leg. Where the apparent weakest point is the left or right edge of the leg, apply the load so that it is no greater than 25 mm (1.0 in.) from the edge.</i></p>	<p>PASS</p>
<p><b>17.3.2.2 Front Load Test- Proof Test</b>            The loading device shall be attached to the chair so that an initially horizontal force is applied inward and parallel to the front-to-rear axis of the chair, between 13 mm (0.5 in.) and 38 mm (1.5 in.) from the bottom of a leg. A force of 503N (113 lbf.) is applied once to each front leg individually for 1 minute.            Proof load(s) shall cause no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable.   <i>Note: For chairs with casters, apply the load to the chair leg, but not more than 13 mm (0.5 in.) from the point of caster attachment (bottom of the leg). The load shall be applied to the apparent weakest point of the leg. Where the apparent weakest point is the left or right edge of the leg, apply the load so that it is no greater than 25 mm (1.0 in.) from the edge.</i></p>	<p>PASS</p>



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Test and Requirements	Test Results
<p><b>17.4.2.1 Side Load Test- Functional Test</b></p> <p>The loading device shall be attached to the chair so that an initially horizontal force is applied inward and parallel to the front-to-rear axis of the chair, between 13 mm (0.5 in.) and 38 mm (1.5 in.) from the bottom of a leg. A force of 334N (75lbf.) is applied once to each front and rear leg individually for 1 minute.</p> <p>Functional load(s) shall cause no loss of serviceability.</p> <p><i>Note: For chairs with casters, apply the load to the chair leg, but not more than 13 mm (0.5 in.) from the point of caster attachment (bottom of the leg). The load shall be applied to the apparent weakest point of the leg. Where the apparent weakest point is the left or right edge of the leg, apply the load so that it is no greater than 25 mm (1.0 in.) from the edge.</i></p>	<p>PASS</p>
<p><b>17.4.2.2 Side Load Test- Proof Test</b></p> <p>The loading device shall be attached to the chair so that an initially horizontal force is applied inward and parallel to the front-to-rear axis of the chair, between 13 mm (0.5 in.) and 38 mm (1.5 in.) from the bottom of a leg. A force of 503N (113 lbf.) is applied once to each front and rear leg individually for 1 minute.</p> <p>Proof load(s) shall cause no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable.</p> <p><i>Note: For chairs with casters, apply the load to the chair leg, but not more than 13 mm (0.5 in.) from the point of caster attachment (bottom of the leg). The load shall be applied to the apparent weakest point of the leg. Where the apparent weakest point is the left or right edge of the leg, apply the load so that it is no greater than 25 mm (1.0 in.) from the edge.</i></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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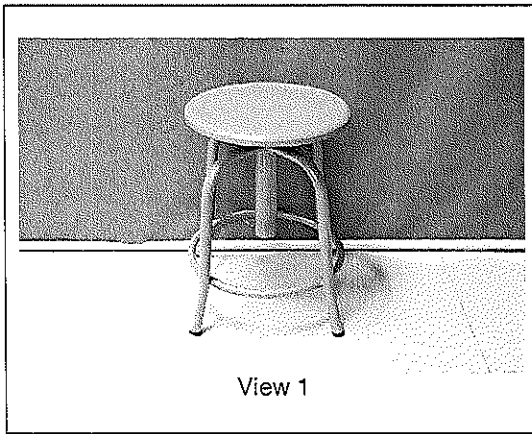
**SAMPLE INFORMATION AND PICTURES**

Weight: 5.05 kg

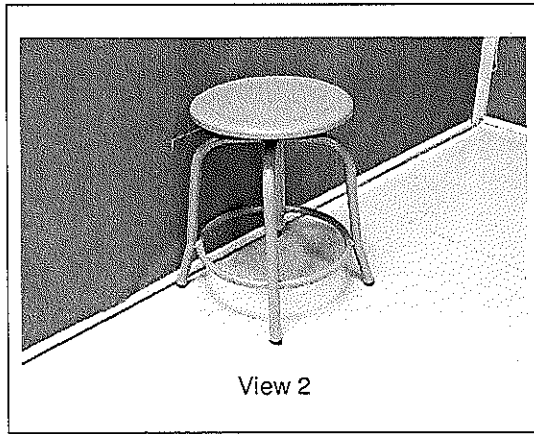
Overall Dimensions: 370 mm L x 370 mm W x 475~690 mm H

Other Dimensions: /

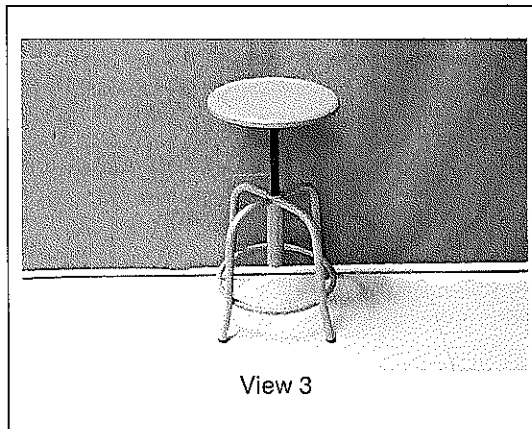
**Sample as Received**



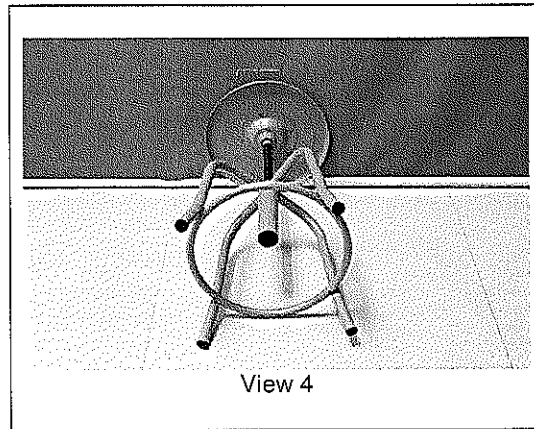
View 1



View 2



View 3



View 4

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



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