

## Test Report

No.: SDHL1603002646FT

Date: Mar.28, 2016

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ZHONG SHAN SHI SONGLIN FURNITURE CO., LTD  
B BLOCK, JINLI INDUSTRIAL ZONEMSANXING ROAD, SANJIAO TOWN  
ZHONGSHAN CITY, GUANGDONG PROV., CHINA 528400

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

Sample Description : OFFICE CHAIR  
Style / Item No. : SL-T1/T2/T3  
Manufacturer : ZHONG SHAN SHI SONGLIN FURNITURE CO., LTD  
Sample Receiving Date : Mar.09, 2016  
Test Performing Date : Mar.09, 2016 to Mar.28, 2016

### Test Result Summary

Test(s) Requested	Result(s)
ANSI/BIFMA X5.1:2011 (Type I, III)	SL-T1: PASS
Clause 5, 6, 15 and 16 of ANSI/BIFMA X5.1:2011 (Type I, III)	SL-T2/T3: 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**
**Part I. Test Conducted:**

ANSI/BIFMA X5.1:2011 General-Purpose Office Chairs – Tests.

**No. of Sample:**

4 piece(s) (Sample 1, 2, 3 &amp; 4 + additional bases, casters). For more sample information and pictures, please refer to the following page.

**Chair Type:** Type I, III.

**SL-T1**

Test and Requirements	Test Results
<b>Safety, Durability and Structural Adequacy</b>	
<b>5 Backrest Strength Test - Static - Type I</b>	
<b>5.4.1 Functional Load</b> 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 $\pm$ 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees $\pm$ 10 degrees throughout the loading of the backrest.	PASS
<b>5.4.2 Proof Load</b> 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 $\pm$ 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees $\pm$ 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> 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 $\pm$ 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees $\pm$ 10 degrees throughout the loading of the backrest.	PASS
<b>6.4.2 Proof Load</b> 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 $\pm$ 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees $\pm$ 10 degrees throughout the loading of the backrest.	PASS
<b>7 Base Test – Static</b> There shall be no sudden and major change in the structural integrity of the base. The center column may not touch the test platform during the load applications when a force of 11,120 N (2500 lbf.) is applied to the vertical support column, or test fixture that simulates the taper/base interface for one (1) minute. Remove the force, and then apply a second force of 11,120 N (2500 lbf.) for one (1) minute.	PASS
<b>8 Drop Test - Dynamic</b>	



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# Test Report

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Test and Requirements	Test Results
<b>8.4.1 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>8.4.2 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>9 Swivel Test – Cyclic</b> There shall be no loss of serviceability after 60,000 cycles of rotation (360°) at a rate between 5 and 15 rotations per minute under a 113 kg (250 lb.) load on the seat. If the seat height is adjustable set the height to its lowest position, for all chairs, continue the test for an additional 60,000 cycles to a total of 120,000 cycles.	PASS
<b>10 Tilt Mechanism Test – Cyclic</b> There shall be no loss of serviceability to the tilt mechanism after 300,000 cycles at a rate between 10 and 30 cycles per minute under a 102kg (225lbs.) load to the center of the seat. <i>Note: This test shall be performed on Type I and Type II chairs with tilting backrests.</i>	PASS
<b>11 Seating Durability Tests – Cyclic</b>	
<b>11.3 Impact Test</b> There shall be no loss of serviceability to the chair after a test bag weighing 57kg (125lbs.) is free fell from 30 mm (1.2 in.) above the uncompressed seat to the specified position on seat for 100,000 cycles. The drop height and/or seat height shall be adjusted during the test if the drop height changes by more than 13 mm (0.5 in.). The cycling device shall be set at a rate between 10 and 30 cycles per minute. <i>Note: Chairs with less than 44 mm (1.75 in.) of cushioning materials in the seat shall have foam added to bring total cushioning thickness to 50 mm ± 6 mm (2 in. ± 0.25 in.). Any additional foam added to the top of the seat shall have a 25% Indentation Force Deflection (IFD) of 200 N ± 22 N (45 lbf. ± 5 lbf.). Flexible seat surfaces (i.e., mesh, flexible plastic, etc.) are not considered cushioning materials.</i>	PASS
<b>11.4 Front Corner Load-Ease Test – Cyclic – Off-center</b> After completing the impact test, alternately apply a load of 734 N (165 lbf.) through a 203 mm ± 13 mm (8 in. ± 0.51 in.) diameter loading device at one front corner flush to each structural edge at a rate of 10 to 30 cycles per minute for 20,000 cycles. There shall be no loss of serviceability to the chair.	PASS
<b>12 Stability Tests</b>	



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Test and Requirements	Test Results
<p><b>12.3.1 Rear Stability Test for Type III Chairs</b></p> <p>Place a support fixture made of a 1.5 mm <math>\pm</math> 0.4 mm (0.060 in. <math>\pm</math> 0.015 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 so it touches the support fixture. As each disk is added to the stack slide it along the lower disk until it contacts the support fixture. Apply a horizontal force to 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:</p> <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> <p>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.</p> <p>The chair shall not tip over.</p>	<p>PASS</p>
<p><b>12.3.2 Rear Stability Test for Type I and II Chairs</b></p> <p>Place a support fixture made of a 1.5 mm <math>\pm</math> 0.4 mm (0.060 in. <math>\pm</math> 0.015 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 so it touches the support fixture. 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 12.3.1 with the chair in the unlocked position.</p> <p>The chair shall not tip over.</p>	<p>PASS</p>
<p><b>12.4 Front Stability</b></p> <p><u>Test Procedure - Alternative A</u> (This alternative may only be used on chairs that do not have a seat surface that will support the stability loading fixture (i.e., mesh, web or strap seat support surfaces))</p> <p>Apply a vertical load of 600 N (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 level of the plane of the top of the seat. The force shall be coincident with the side-to-side centerline of the seat.</p> <p><u>Test Procedure - Alternative B</u></p> <p>Apply a vertical load of 600 N (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 level of the plane of the top of the seat. The force shall be coincident with the side-to-side centerline of the seat.</p> <p>The chair shall not tip over as the result of the force application.</p>	<p>PASS</p>
<p><b>13 Arm Strength Test - Vertical - Static</b></p>	

Test and Requirements	Test Results
<b>13.4.1 Functional Load</b> 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. 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.	PASS
<b>13.4.2 Proof Load</b> 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. 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.	PASS
<b>14 Arm Strength Test - Horizontal - Static</b>	
<b>14.4.1 Functional Load</b> 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. A functional load applied once shall cause no loss of serviceability.	PASS
<b>14.4.2 Proof Load</b> 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. A proof load applied once shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.	PASS
<b>15 Backrest Durability Test - Cyclic - Type I</b> A weight of 102 kg (225 lb.) shall be secured in the center of the seat. Apply a 445 N (100 lbf.) total force to the backrest at the specified position at a rate between 10 and 30 cycles per minute. For chairs with backrest widths less than or equal to 406 mm (16 in.) at the height of the loading point, apply the load to the backrest for 120,000 cycles. For chairs with backrest widths greater than 406 mm (16 in.) at the height of the loading point, apply the load to the backrest for 80,000 cycles + 20,000 cycles at the position 102 mm (4 in.) to the right of the vertical centerline + 20,000 cycles at the position 102 mm (4 in.) to the left of the vertical centerline.. There shall be no loss of serviceability. <i>Note: 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.</i>	PASS

Test and Requirements	Test Results
<b>16 Backrest Durability Test - Cyclic - Type II and III</b> A weight of 102 kg (225 lb.) shall be secured in the center of the seat. Apply a 334 N (75 lbf.) total force to the backrest at the specified position at a rate between 10 and 30 cycles per minute. For chairs with backrest widths less than or equal to 406 mm (16 in.) at the height of the loading point, apply the load to the backrest for 120,000 cycles. For chairs with backrest widths greater than 406 mm (16 in.) at the height of the loading point, apply the load to the backrest for 80,000 cycles + 20,000 cycles at the position 102 mm (4 in.) to the right of the vertical centerline + 20,000 cycles at the position 102 mm (4 in.) to the left of the vertical centerline. There shall be no loss of serviceability. <i>Note: With the backrest at its back stop position, apply a force that is initially 90 degrees <math>\pm</math> 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees <math>\pm</math> 10 degrees throughout the loading of the backrest.</i>	PASS
<b>17 Caster/Chair Base Durability Test - Cyclic</b>	
<b>17.1 Caster/Chair Base Durability Test for Pedestal Base Chairs</b> No loss of service after 2,000cycles over a hard surface with 3 obstacles and 98,000cycles over a smooth hard surface without obstacles under a 113kg (250lbs.) load at a rate of 10 $\pm$ 2 cycles per minute. Test stroke is 762mm (30in.) minimum. The caster should not separate under 22N (5lbs.) pulling force in line with the caster stem after the cycling test.	PASS
<b>17.2 Caster / Chair Base Durability Test for Chairs with Legs</b> No loss of service after 2,000cycles over a hard surface with 2 obstacles and 98,000cycles over a smooth hard surface without obstacles under a 113 kg (250 lb.) load on the seat at a rate of 10 $\pm$ 2 cycles per minute. Test stroke is 762mm (30in.) minimum. The caster should not separate under 22N (5lbs.) pulling force in line with the caster stem after the cycling test.	N/A
<b>18 Leg Strength Test - Front and Side Application</b>	
<b>18.3.2.1 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 to each front leg individually for 1 minute. Functional load(s) applied once in each direction 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>	N/A



Test and Requirements	Test Results
<p><b>18.3.2.2 Front 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 to each front leg individually for 1 minute.</p> <p>Proof load(s) applied once each direction 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>	N/A
<p><b>18.4.2.1 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 to each front and rear leg individually for 1 minute.</p> <p>Functional load(s) applied once in each direction 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>	N/A
<p><b>18.4.2.2 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 to each front and rear leg individually for 1 minute.</p> <p>Proof load(s) applied once each direction 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>	N/A
<b>19 Footrest Static Load Test - Vertical</b>	

Test and Requirements	Test Results
<b>19.4.1 Functional Load</b> Apply a force F1 of 445 N (100 lbf.) uniformly along a 102 mm (4 in.) distance along the footrest but not greater than 51 mm (2 in.) from the outside edge at the apparent weakest point of the structure for one (1) minute in the vertical downward direction. If the footrest adjusts in height relative to the seat and allows for a force application 180 degrees (on the opposite side of the chair) from the primary force application, maintain force F1 and apply an additional force F2 of 445 N (100 lbf.) to the footrest at the opposing position for an additional one (1) minute. The F2 force shall also be applied uniformly along a 102 mm (4 in.) distance along the footrest but not greater than 51 mm (2 in.) from the outside edge. If applicable, remove force F2, increase the force F1 to 200 lbf. for one (1) minute. There shall be no loss of serviceability or sudden loss of footrest height.	N/A
<b>19.4.3 Proof Load</b> Apply a force of 1334 N (300 lbf.) uniformly along a 102 mm (4 in.) distance along the footrest but not greater than 51 mm (2 in.) from the outside edge at the apparent weakest point of the structure for one (1) minute in the vertical downward direction. The load applied once shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.	N/A
<b>20 Footrest Durability Test - Vertical – Cyclic</b> A 890 N (200-lbf.) force shall be applied uniformly along a 102 mm (4 in.) distance along the footrest but not greater than 51 mm (2 in.) from the outside edge at the apparent weakest point of the structure. When the weakest position is not obvious, several load application positions may be necessary to properly test the product. If the footrest moves more than 25 mm (1 in.) within the first 500 cycles, discontinue testing. If the footrest moves throughout the remainder of the test, reset it to its original position when it is within 12 mm (0.5 in.) from its lowest position. The force shall be applied and removed 50,000 cycles at a rate between 10 and 30 cycles per minute. There shall be no loss of serviceability. Adjustable footrests that move more than 25 mm (1 in.) in the first 500 cycles shall be considered to have lost their serviceability.	N/A
<b>21 Arm Durability Test – Cyclic</b> Simultaneously apply a force of 400 N (90 lbf.) to each arm initially at a 10 degrees $\pm$ 1 degree angle. The arm loading device must follow the arm as it deflects or pivots. The force shall be applied and removed for 60,000 cycles at a rate between 10 and 30 cycles per minute. The arm loading device should distribute the load over a length of 100 mm (4 in.) on the arm pad. Center of load shall not be applied more than 25 mm (1.0 in.) in from the inside edge of the arm pad. There shall be no loss of serviceability to the chair.	PASS
<b>22 Out Stop Tests for Chairs with Manually Adjustable Seat Depth</b> A stranded metallic cable or equivalent shall be attached to the most rigid point of the vertical centerline of the seat. The opposite end of the cable shall extend in line forward from the seat and in line with the plane of the seat movement to a pulley and then downward to an attached weight of 25 kg (55 lb.). Place the seat in its most rearward position and restrain. Place a 74 kg (163 lb.) rigid mass in the center of the seat. The seat with the hanging weight shall be held at its most rearward position, then released, permitting it to move forward rapidly and impact the out stops. Repeat this procedure for a total of 25 cycles. There shall be no loss of serviceability to the unit.	PASS



# Test Report

No.: SDHL1603002646FT

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Test and Requirements	Test Results
<b>23 Tablet Arm Chair Static Load Test</b> Apply the load through a 203 mm $\pm$ 13 mm (8.0 in. $\pm$ 0.51 in.) diameter area 25 mm (1 in.) from the edge of the surface at its apparent weakest point. Apply a load of 68 kg. (150 lb.) at the location described in 23.2 b) for one (1) minute and remove the load. The load applied once shall cause no sudden and major change in the structural integrity of the chair. After performing the test, the tablet arm must allow egress from the unit; other losses of serviceability are acceptable.	N/A
<b>24 Tablet Arm Chair Load Ease Test – Cyclic</b> A 343 N (77 lbf.) force applied through a 203 mm $\pm$ 13 mm (8.0 in. $\pm$ 0.51 in.) diameter area centered on the writing area of the tablet, for a total of 100,000 cycles. The cycling device shall be set to operate at a rate of 14 $\pm$ 6 cycles per minute. There shall be no loss of serviceability to the chair and/or tablet arm.	N/A

## Remark:

1. N/A – Not applicable; N/R – Not Requested; N/P – Not provided.

## Part II. Test Conducted:

Clause 5, 6, 15 and 16 of ANSI/BIFMA X5.1:2011 General-Purpose Office Chairs – Tests.

## No. of Sample:

5 piece(s) (Sample 1, 2, 3, 4, & 5). For more sample information and pictures, please refer to the following page.

Chair Type: Type I, III.

## SL-T2/T3

Test and Requirements	Test Results
<b>Safety, Durability and Structural Adequacy</b>	
<b>5 Backrest Strength Test - Static - Type I</b>	
<b>5.4.1 Functional Load</b> 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 $\pm$ 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees $\pm$ 10 degrees throughout the loading of the backrest.	PASS
<b>5.4.2 Proof Load</b> 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 $\pm$ 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees $\pm$ 10 degrees throughout the loading of the backrest.	PASS
<b>6 Backrest Strength Test - Static - Type II &amp; III</b>	



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Test and Requirements	Test Results
<b>6.4.1 Functional Load</b> 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 $\pm$ 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees $\pm$ 10 degrees throughout the loading of the backrest.	PASS
<b>6.4.2 Proof Load</b> 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 $\pm$ 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees $\pm$ 10 degrees throughout the loading of the backrest.	PASS
<b>15 Backrest Durability Test - Cyclic - Type I</b> A weight of 102 kg (225 lb.) shall be secured in the center of the seat. Apply a 445 N (100 lbf.) total force to the backrest at the specified position at a rate between 10 and 30 cycles per minute. For chairs with backrest widths less than or equal to 406 mm (16 in.) at the height of the loading point, apply the load to the backrest for 120,000 cycles. For chairs with backrest widths greater than 406 mm (16 in.) at the height of the loading point, apply the load to the backrest for 80,000 cycles + 20,000 cycles at the position 102 mm (4 in.) to the right of the vertical centerline + 20,000 cycles at the position 102 mm (4 in.) to the left of the vertical centerline. There shall be no loss of serviceability. <i>Note: With the backrest at its back stop position, apply a force that is initially 90 degrees <math>\pm</math> 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees <math>\pm</math> 10 degrees throughout the loading of the backrest.</i>	PASS
<b>16 Backrest Durability Test - Cyclic - Type II and III</b> A weight of 102 kg (225 lb.) shall be secured in the center of the seat. Apply a 334 N (75 lbf.) total force to the backrest at the specified position at a rate between 10 and 30 cycles per minute. For chairs with backrest widths less than or equal to 406 mm (16 in.) at the height of the loading point, apply the load to the backrest for 120,000 cycles. For chairs with backrest widths greater than 406 mm (16 in.) at the height of the loading point, apply the load to the backrest for 80,000 cycles + 20,000 cycles at the position 102 mm (4 in.) to the right of the vertical centerline + 20,000 cycles at the position 102 mm (4 in.) to the left of the vertical centerline. There shall be no loss of serviceability. <i>Note: With the backrest at its back stop position, apply a force that is initially 90 degrees <math>\pm</math> 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees <math>\pm</math> 10 degrees throughout the loading of the backrest.</i>	PASS

### SAMPLE INFORMATION AND PICTURES

**Weight:** SL-T1:17.25 kg  
SL-T2:17.00 kg  
SL-T3:16.90 kg

**Overall Dimensions:** SL-T1/T2/T3: 675mm L x 650mm W x 985~1075mm H

**Other Dimensions:** Base radius, 325 mm; base weight, 1.90 kg.

#### Sample as Received



SL-T1-View 1



SL-T1-View 2



SL-T1-View 3



SL-T1-View 4





SL-T2-View 5



SL-T2-View 6



SL-T2-View 7



SL-T2-View 8



SL-T3-View 9



SL-T3-View 10

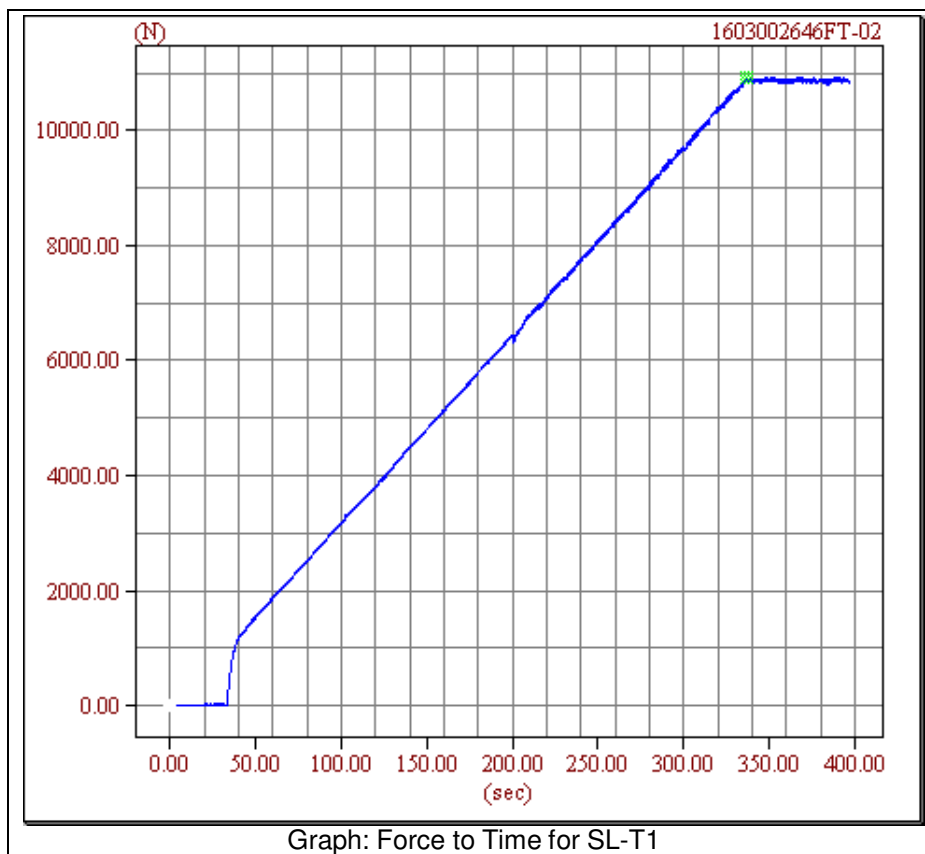


SL-T3-View 11



SL-T3-View 12

### Test Pictures with Details



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