

GUANGZHOU LIJIANG ECONOMIC DEVELOPMENT CO., LTD
ROOM D-E, 18/F, EAST TOWER, HAIJING CENTER, 152#HUANGPU AVENUE(MID), TIANHE DISTRICT,
GUANGZHOU, CHINA

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

Sample Description	: AUDITORIUM CHAIR
Style / Item No.	: LS-6619S/SG
Manufacturer	: FOSHAN LEADCOM SEATING CO., LTD
Test Performed	: Selected test(s) as requested by applicant
Sample Receiving Date	: Nov 18, 2010
Sample Resubmission Date	: Dec 02, 2010
Test Performing Date	: Nov 18, 2010 to Dec 06, 2010
Test Result(s)	: For further details, please refer to the following page(s)

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


Jack Yao
Section Manager

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Test Conducted: BS EN 12727: 2000 Furniture- Ranked seating – test methods and requirements for strength and durability (level 1)

Test Item	Test Method & Test Requirement	Test Result
6.3 Seat and Back Static Load Test	Test loading: Seat: 1300N Backrest: 560N Repeat test for 10 cycles. When this test is applied to a stool without a backrest, or with a very low back, apply the backward force horizontally to the front edge of the seat.	Pass
6.4 Horizontal Forward Static Load to Back	A horizontal forward static load shall be applied using the smaller seat loading pad (5.3) at a point 50 mm below the centre of the top of the back. The appropriate force 0 N shall be applied 10 times.	Pass
6.5 Vertical Static Test on Back	Apply the downwards force 0 N a total of 10 times to the top of the back through the seat loading pad (5.2). If it is not possible to use the seat loading pad, apply the force with the smaller seat loading pad (5.3).	Pass
6.6 Arm Sideways Static Load Test	Apply a pair of outward forces 400 N to the arms of the unit at the point along the arms considered most likely to cause failure, but not less than 100 mm from either end of the arm structure. Apply the forces 10 times, using the local loading pad.	Pass
6.7 Arm Downwards Static Load Test	Apply the vertical force 800N, 10 times at the point along the arms considered most likely to cause failure, (see Figure 11), but not less than 100 mm from either end of the arm structure. Apply the load through the smaller seat loading pad	Pass
6.11 Seat Impact Test	Place one layer of foam on the seat, and determine the drop height. Place a second layer of foam (5.6) on the seat. Allow the seat impactor (see 5.9 and Figure 7) to fall freely from the height of 180 mm onto the seat loading point as specified by the loading position template (4.4). Carry out the test for a total of 10 times. Repeat at any other position considered likely to cause failure. For articles with more than one seating position apply the test to one end seat only.	Pass
6.12 Back Impact Test	Strike the centre of the structure of the top outside of the back with the impact hammer (5.10) for a total of 10 times. Drop the impact hammer through the height of 210mm or the angle of 38 degrees. Repeat at any other position on the outside of the back considered most likely to cause failure. When the article has no back, strike the centre of the seat rear edge. For articles with more than one seating position, apply the test to one end seating position only.	Pass

To be continued...

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Test Item	Test Method & Test Requirement	Test Result
6.13 Arm Impact Test	Carry out the test in the same manner as the back impact test (6.12) except that the impact shall be applied in an inward direction to the outside face of one end and end of row arm at the position considered most likely to cause a failure. Drop the impact hammer through the height of 210mm or the angle of 38 degrees for a total of 10 times.	Pass
6.14 Tipping Seat Operation Test	If the installation has tip-up seats one seat of the test structure shall be operated from fully closed to fully open for 25000 times at a maximum rate of 10 cycles per minute. During each cycle the seat shall be allowed to open or close freely under gravity if this is its correct mode of operation.	Pass
6.8 Seat and back durability test	Carry out the test at one position or consecutively at two positions as specified in a), b), or c) below. a) on the one seat and back for samples with individual seats and no common structural members. b) on one end seat and back and the adjacent seat and back for samples of continuous seating or individual seats with common structural members. c) on the centre pair of seats and backs for samples of continuous seating with 4 or more seating positions. During the test load the other seat(s) that are not being tested with a force of 950N or a mass of 96,6 kg applied at the seat loading point. Seat Load: 950N; Backrest load: 330N; Cycles: 50000;	Pass
6.9 Seat Front Edge Durability Test	Apply the vertical seat load 950N using the smaller seat loading pad (5.3) alternately on two points each 80 mm from the front edge of the seat structure and as near as possible to either side of the seat but not less than 80 mm from the edges. For articles with more than one seating position, the test shall be carried out as above on one end seat and then with the front edge durability loads applied to the centre line only of the adjacent seat. Apply the forces for 50000 cycles.	Pass
6.10 Horizontal Forward Durability Test to Back	The horizontal force of 330N shall be applied acting forwards using the smaller seat loading pad (5.3) 50 mm below the centre of the top of the back of one end seat only. The force shall be applied for 0cycles.	Pass

To be continued...

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Test Item	Test Method & Test Requirement	Test Result
6.3 Seat and Back Static Load Test	Test loading: Seat: 1300N Backrest: 560N Repeat test for 10 cycles. When this test is applied to a stool without a backrest, or with a very low back, apply the backward force horizontally to the front edge of the seat.	Pass
6.15 Vertical Static Load on Auxiliary Writing Surface	Apply the downward vertical force of 150N, 10 times at a point 80 mm from two adjacent sides on the corner farthest from any support using the local loading pad (5.5).	NA
6.16 Auxiliary Writing Surface Durability Test	Apply a downward vertical force of 150 N at the same position as specified in 6.15 using the local loading pad (5.5) for the number of 10000 times.	NA

Remark: NA – Not applicable;

Photo appendix:



Sample as received

End of Report

Test Report

No.:SDHGR101102171FT

Date: Dec 07, 2010

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GUANGZHOU LIJIANG ECONOMIC DEVELOPMENT CO., LTD
ROOM D-E, 18F, EAST TOWER, HAIJING CENTER, 152#HUANGPU AVENUE (MID), TIANHE DISTRICT,
GUANGZHOU, CHINA

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

Sample Description : AUDITORIUM CHAIR
Style / Item No. : LS-522
Manufacturer : FOSHAN LEADCOM SEATING CO., LTD
Test Performed : Selected test(s) as requested by applicant
Sample Receiving Date : Nov 22, 2010
Test Performing Date : Nov 22, 2010 to Dec 07, 2010
Test Result(s) : For further details, please refer to the following page(s)

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

Jack Yao
Section Manager

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Test Conducted: BS EN 12520:2010 Furniture — Strength, durability and safety --Requirements for domestic seating

Test Item	Test Method & Test Requirement	Test Result
Safety Requirements		
General Requirements Clause 5.1	Edges of the seat, back rest and arm rests, which are in contact with the user when sitting are rounded or chamfered. All other edges accessible during use shall be free from burrs and/or sharp edges; Ends of hollow components are closed or capped. Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided. It shall not be possible for any load bearing part of the seating to come loose unintentionally. All parts which are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use.	Pass
Shear and Squeeze Points Clause 5.2		
Shear and squeeze points when setting up and folding Clause 5.2.1	Unless 5.2.2 or 5.2.3 are applicable, shear and squeeze points, as defined in 3.3, that are created only during setting up and folding, including tipping seat, are acceptable,	NA
Shear and squeeze points under the influence of powered mechanisms Clause 5.2.2	With the exception of tipping seats there shall be no shear and squeeze points created by parts of the seating under powered mechanisms e.g. springs and gas lifts.	NA
Shear and squeeze points during use Clause 5.2.3	There shall be no shear and squeeze points created by loads applied during normal use The loads applied during normal use can be found in Table 1. Shear and squeeze points are not acceptable if a hazard is created by the weight of the user during normal movements and actions, e.g. attempting to move the seating by lifting the seat or by adjusting the backrest.	Pass
Stability Clause 5.3	The seating shall fulfill the relevant requirements of EN 1022.	See Annex
Strength and Durability		
Seat and Back Static Load Test Clause 6.2.1	Apply the downward force of 1300N at the seat loading position. With the downward force maintained, apply the back force of 450N at back loading position. Remove the back load and then the seat load. Repeat above operation for 10 cycles. Check the chair for any damage.	Pass
Additional Seat and Back Static Load for Tilting Chairs Clause 6.3	Tilting chairs shall be additionally tested as specified in BS EN 1728:2001 6.2, except that the seat load and back load shall be determined according with BS EN 1728:2001 6.3.	NA

To be continued...

Test Item	Test Method & Test Requirement	Test Result
Seat Front Edge Static Load Clause 6.2.2	Repeat the seat static load (1300N) procedure on a point, 80mm back from the front edge of the structure using the seat load only. Apply the load at the most adverse position on the seat centre-line or as near one side of the seat as possible, but not less than 80mm front that edge of the structure.	Pass
Foot Rail Static Load Test Clause 6.4	Not apply to seat height < 600mm. Apply the downward force of 1000N to the seat at seat loading position for 10 times. Loading pad: Diameter 200mm or Diameter 100mm Loading position: If footrest/leg rest: 80mm from the periphery. If foot rail, centre-line of the foot-rail or any position likely to cause failure.	NA
Arm Sideways Static Load Test Clause 6.5	Apply an outward force of 300N to each arm of the units simultaneously at the point along the arms most likely to cause failure, but not less than 100 from either end of the arm structure. Apply the force 10 times.	NA
Arm Downwards Static Load Test Clause 6.6	Apply the vertical force of 700N to the arm for 10 times. If the chair overbalances, apply a load on the side of the seat opposite to the arm under test large enough to prevent the chair from overbalancing. Check the chair for any damage.	NA
Seat and Back Fatigue Test Clause 6.7	Apply the downward force of 1000N at the seat loading position. With the downward force maintained, apply the back force of 300N at back loading position. Remove the back load and then the seat load. Repeat above operation for 25000 cycles. Check the chair for any damage.	Pass
Additional Seat and Back Fatigue Test for Tilting Chairs, Reclining Chairs and Loungers Clause 6.9	Tilting chairs, reclining chairs and loungers shall be additionally tested as specified in BS EN 1728:2001 6.7, except that the seat load and back load shall be determined according with BS EN 1728:2001 6.9.	NA
Seat Front Edge Fatigue Test Clause 6.8	Apply the vertical forces of 800N alternately on two points each 80mm from the front edge of the seat structure and as near as possible to either side of the seat but not less than 80mm from the edges. Repeat above operation for 20000 cycles. Check the chair for any damage.	Pass
Arm Fatigue test Clause 6.6	The test load of shall be applied simultaneously on two points for 10000 cycles, 100mm behind the front edge of the arm rests.	NA
Leg Forward Static Load Test Clause 6.12	Apply the seat load of 1000N at the seat loading position. Apply the horizontal force of 400N centrally at the rear of the seat in a forward direction. Repeat above operation for 10 times. Check the chair for any damage.	Pass

To be continued...

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Test Item	Test Method & Test Requirement	Test Result
Leg Sideways Static Load Test Clause 6.13	Apply the seat load of 1000N at any position not more than 150mm from the unload edge of the seat. Apply the horizontal force of 300N centrally to the side towards the restrained leg. Repeat above operation for 10 times. Check the chair for any damage.	Pass
Seat Impact Test Clause 6.15	Allow the seat impactor to fall freely from the height of 180mm onto the seat loading position. Repeat above operation for 10 times. Check the chair for any damage.	Pass
Backwards Fall Test Annex A. 1	This test is only for single seating units where the back will be the first part of the structure to strike the floor and the force used to overturn the chair rearwards is less than 30 N. Apply a rearward horizontal force to a point 50 mm below the top of the backrest in the centre of the backrest. Measure the force required to lift the front legs off the floor. If the measured force is less than 30 N push the top of the backrest rearwards until it reaches the equilibrium point (see Figure A.1). Allow it to fall freely on its back without initial force or velocity.	Pass
Back Impact Test Clause 6.16	This test is for all seating not tested in accordance with Backwards Fall Test. Prevent the chair from movement by stops against the front leg. Allow the impact hammer to fall freely from the height of 180mm onto the center of the top outside of the chair back for 10 times. Check the chair for any damage	Pass
Information for use		
Information for use Clause 6)	Information for use shall be available in the language of the country in which it will be delivered to the end user. It shall contain at least the following details: a) assembly instructions, where applicable; b) instructions for the care and maintenance of the seating; c) if the seating is fitted with seat height adjustments with energy accumulators, an additional note is required pointing out that only trained personnel may replace or repair seat height adjustment components with energy accumulators.	NT

Annex: BS EN 1022:2005, Domestic furniture – Seating – Determination of stability.

Test Item	Test Method & Test Requirement	Test Result
Forwards Overbalancing, All Seating (Clause 6.2)	Apply a force of 600N vertically at a point 60mm in from the front edge of the seat. At each loaded position, apply a force of 20N for 5 s horizontally outwards along a horizontal line Extended forward from the point where the base of the loading pad meets the upper surface of seat. Record whether or not the seating overbalances.	Pass

To be continued...

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Test Item	Test Method & Test Requirement	Test Result
Forwards Overbalancing, All Seating with Footrest (Clause 6.3)	For seating with footrest repeat the procedure in Clause 6.2 applying the vertical and horizontal forces to the footrest.	NA
Sideways Overbalancing, All Seating without Arms (Clause 6.4)	Apply a force of 600N vertically at a point 60mm in from the edge of the seat nearest the stopped feet. Apply a sideways force of 20N horizontally outwards for at least 5s. Record whether or not the seating overbalances.	Pass
Sideways Overbalancing, All Seating with Arms (Clause 6.5)	Apply a vertical force of 350N at a position on the centerline of the arm up to a maximum 40mm inwards from the outer edge of the arm structure at a most adverse position along its length. Apply a vertical force of 250N at a position 100mm to the side of the fore and after center line of the seat which is nearest the stopped feet. Apply a horizontal force f of 20N outwards, and perpendicular to the line joining the stopped feet for at least 5s. Record whether or not the seating overbalances.	NA
Rearwards Overbalancing, All Seating with Backs (Clause 6.6)	Apply a vertical force of 600N to the seat. Apply the horizontal force of 161 N to the back of the chair for 5 s. Record whether or not the seating overbalances.	Pass
Tilt Chairs (Clause 7.3)	Load the chair with 11 loading discs (10kg), so that the discs are firmly against the chair back. Record whether the chair overbalances.	NA
Rocking Chairs (Clause 7.4)	Load the chair with 8 loading discs (10 kg), so that the discs are firmly against the chair back. Rock the chair forwards as far as is practicable. Allow the chair to rock rearwards freely under gravity. Record whether the chair overbalances.	NA
Reclining Chair with Footrests (Clause 7.5)	Load the back of the chair with eight loading discs and place three loading discs onto the footrest at specified distance from the intersection of the seat and back. Record whether or not the chair overbalances.	NA
Footrest Test (Clause 7.6)	<ul style="list-style-type: none"> In the case the footrest folds up, the normal forwards stability test from 6.2(Forwards Overbalancing, All Seating) shall be applied with the footrest in the folded condition only. In the case where the footrest does not fold as the sitter's weight is moved towards the footrest, the normal forwards stability test from 6.2(Forwards Overbalancing, All Seating) shall be applied to the footrest in its fully extended position. 	NA
Reclining chairs without footrest (Clause 7.7)	Load the back of the chair with eight loading discs and place three loading discs onto the front of the seat of the chair at specified distance from the intersection of the seat and back. Record whether or not the chair overbalances.	NA

Remark: NA – Not applicable; NT – Not test as per client's requirement;

To be continued...

Photo Appendix:



Sample as received – View 1



Sample as received – View 2

End of Report

Test Report

No.:SDHGR101102148FT

Date: Dec 06, 2010

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ROOM D-E, 18F, EAST TOWER, HAIJING CENTER, 152#HUANGPU AVENUE(MID), TIANHE DISTRICT,
GUANGZHOU, CHINA

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

Sample Description : AUDITORIUM CHAIR
Style / Item No. : LS-6619S/SG
Manufacturer : FOSHAN LEADCOM SEATING CO., LTD
Test Performed : Selected test(s) as requested by applicant
Sample Receiving Date : Nov 18, 2010
Sample Resubmission Date : Dec 02, 2010
Test Performing Date : Nov 18, 2010 to Dec 06, 2010
Test Result(s) : For further details, please refer to the following page(s)

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Jack Yao
Section Manager

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Test Conducted: BS EN 12727: 2000 Furniture- Ranked seating – test methods and requirements for strength and durability (level 1)

Test Item	Test Method & Test Requirement	Test Result
6.3 Seat and Back Static Load Test	Test loading: Seat: 1300N Backrest: 560N Repeat test for 10 cycles. When this test is applied to a stool without a backrest, or with a very low back, apply the backward force horizontally to the front edge of the seat.	Pass
6.4 Horizontal Forward Static Load to Back	A horizontal forward static load shall be applied using the smaller seat loading pad (5.3) at a point 50 mm below the centre of the top of the back. The appropriate force 0 N shall be applied 10 times.	Pass
6.5 Vertical Static Test on Back	Apply the downwards force 0 N a total of 10 times to the top of the back through the seat loading pad (5.2). If it is not possible to use the seat loading pad, apply the force with the smaller seat loading pad (5.3).	Pass
6.6 Arm Sideways Static Load Test	Apply a pair of outward forces 400 N to the arms of the unit at the point along the arms considered most likely to cause failure, but not less than 100 mm from either end of the arm structure. Apply the forces 10 times, using the local loading pad.	Pass
6.7 Arm Downwards Static Load Test	Apply the vertical force 800N, 10 times at the point along the arms considered most likely to cause failure, (see Figure 11), but not less than 100 mm from either end of the arm structure. Apply the load through the smaller seat loading pad	Pass
6.11 Seat Impact Test	Place one layer of foam on the seat, and determine the drop height. Place a second layer of foam (5.6) on the seat. Allow the seat impactor (see 5.9 and Figure 7) to fall freely from the height of 180 mm onto the seat loading point as specified by the loading position template (4.4). Carry out the test for a total of 10 times. Repeat at any other position considered likely to cause failure. For articles with more than one seating position apply the test to one end seat only.	Pass
6.12 Back Impact Test	Strike the centre of the structure of the top outside of the back with the impact hammer (5.10) for a total of 10 times. Drop the impact hammer through the height of 210mm or the angle of 38 degrees. Repeat at any other position on the outside of the back considered most likely to cause failure. When the article has no back, strike the centre of the seat rear edge. For articles with more than one seating position, apply the test to one end seating position only.	Pass

To be continued...

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Test Item	Test Method & Test Requirement	Test Result
6.13 Arm Impact Test	Carry out the test in the same manner as the back impact test (6.12) except that the impact shall be applied in an inward direction to the outside face of one end of row arm at the position considered most likely to cause a failure. Drop the impact hammer through the height of 210mm or the angle of 38 degrees for a total of 10 times.	Pass
6.14 Tipping Seat Operation Test	If the installation has tip-up seats one seat of the test structure shall be operated from fully closed to fully open for 25000 times at a maximum rate of 10 cycles per minute. During each cycle the seat shall be allowed to open or close freely under gravity if this is its correct mode of operation.	Pass
6.8 Seat and back durability test	Carry out the test at one position or consecutively at two positions as specified in a), b), or c) below. a) on the one seat and back for samples with individual seats and no common structural members. b) on one end seat and back and the adjacent seat and back for samples of continuous seating or individual seats with common structural members. c) on the centre pair of seats and backs for samples of continuous seating with 4 or more seating positions. During the test load the other seat(s) that are not being tested with a force of 950N or a mass of 96,8 kg applied at the seat loading point. Seat Load: 950N; Backrest load: 330N; Cycles:50000;	Pass
6.9 Seat Front Edge Durability Test	Apply the vertical seat load 950N using the smaller seat loading pad (5.3) alternately on two points each 80 mm from the front edge of the seat structure and as near as possible to either side of the seat but not less than 80 mm from the edges. For articles with more than one seating position, the test shall be carried out as above on one end seat and then with the front edge durability loads applied to the centre line only of the adjacent seat. Apply the forces for 50000 cycles.	Pass
6.10 Horizontal Forward Durability Test to Back	The horizontal force of 330N shall be applied acting forwards using the smaller seat loading pad (5.3) 50 mm below the centre of the top of the back of one end seat only. The force shall be applied for 0cycles.	Pass

To be continued...

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Test Item	Test Method & Test Requirement	Test Result
6.3 Seat and Back Static Load Test	Test loading: Seat: 1300N Backrest: 560N Repeat test for 10 cycles. When this test is applied to a stool without a backrest, or with a very low back, apply the backward force horizontally to the front edge of the seat.	Pass
6.15 Vertical Static Load on Auxiliary Writing Surface	Apply the downward vertical force of 150N, 10 times at a point 80 mm from two adjacent sides on the corner farthest from any support using the local loading pad (5.5).	NA
6.16 Auxiliary Writing Surface Durability Test	Apply a downward vertical force of 150 N at the same position as specified in 6.15 using the local loading pad (5.5) for the number of 10000 times.	NA

Remark: NA – Not applicable;

Photo appendix:



Sample as received

End of Report

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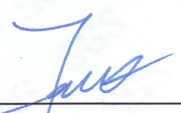
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GUANGZHOU LIJIANG ECONOMIC DEVELOPMENT CO., LTD
ROOM D-E, 18F, EAST TOWER, HAIJING CENTER, 15# HUANGPU
AVENUE (MID), TIANHE DISTRICT, GUANGZHOU, CHINA

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

Sample Description : THE FABRIC FOR PUBLIC SEATING
SGS Ref No. : GZSL1007022866TX
Style / Item No. : 08Y-671
Test Performed : Selected tests as requested against specified test methods & requirements provided by applicant.
Sample Receiving Date : Jul 01, 2010
Test Performing Date : Jul 01, 2010 to Jul 07, 2010
Test Results : Please refer to the next pages

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


Jack Yao
Section Manager

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Test Results:

(E)

Color Fastness To Washing

(ISO 105 C03: 1989; Machine wash at 60 degree C with 5g/l soap solution and 2g/l Na₂CO₃ .)

Change in shade	4-5
Staining on multi-fiber stripe	
Acetate	2-3
Cotton	4
Nylon	2
Polyester	3-4
Acrylic	4-5
Wool	4
Cross staining	5

Color Fastness To Water

(AATCC 107-2009)

Change in shade	4.5
Staining on multi-fiber stripe	
Acetate	4.5
Cotton	4.5
Nylon	4.5
Polyester	4.5
Acrylic	4.5
Wool	4.5

Color Fastness To Perspiration

(AATCC 15-2009)

Acidic	
Change in shade	4.5
Staining on multi-fiber stripe	
Acetate	4.5
Cotton	4.5
Nylon	4.5
Polyester	4.5
Acrylic	4.5
Wool	4.5

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

To be continued...

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(B)

Color Fastness To Crocking (AATCC 8-2007)

Dry staining	4.5
Wet staining	4.5

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Color Fastness To Light (ISO 105 B02:1994/Amd 1: 1998+Amd 2: 2000 Method 2; Xenon-Arc Lamp.)

At standard 4 Grade blue wool	4
-------------------------------	---

Tensile Strength (ASTM D5034-2009; CRE-1" grab)

Warp (lb)	277.8
Weft (lb)	137.8

Tearing Strength (ASTM D2261-2007a)

Warp yarns torn (lb)	47.1
Weft yarns torn (lb)	32.5

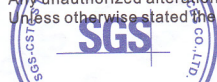
Abrasion Resistance (ASTM D4966-2007; Martindale Wear & Abrasion Tester, 12kPa Pressure)

Endpoints (cycles)	Exceeds 50000
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To be continued...

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Garment Seam Performance

Slippage at 1/4 inch (lb) (ASTM D1683-2007)

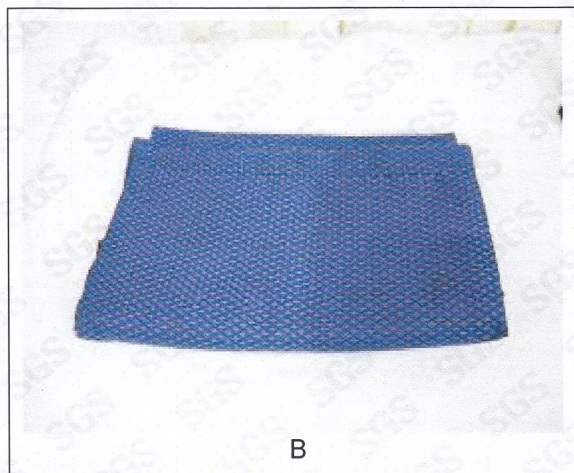
	(A)	(B)
Given seam	22.8	72.0

Strength (lb) (ASTM D1683-2007)

	(A)	(B)
Given seam	71.4 (YPO)	109.0 (YPO)

Note: YPO = Yarns Pull Out

Sample Photo:



*** End of Report ***

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Test Report

No.: SDHGR101102147FT

Date: Dec 06, 2010

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GUANGZHOU LIJIANG ECONOMIC DEVELOPMENT CO., LTD
ROOM D-E, 18F, EAST TOWER, HAIJING CENTER, 152#HUANGPU AVENUE(MID), TIANHE DISTRICT,
GUANGZHOU, CHINA

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

Sample Description : AUDITORIUM CHAIR
Style / Item No. : LS-6618
Manufacturer : FOSHAN LEADCOM SEATING CO., LTD
Test Performed : Selected test(s) as requested by applicant
Sample Receiving Date : Nov 18, 2010
Sample Resubmission Date : Dec 02, 2010
Test Performing Date : Nov 18, 2010 to Dec 06, 2010
Test Result(s) : For further details, please refer to the following page(s)

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



Jack Yao
Section Manager

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Test Conducted: BS EN 12727: 2000 Furniture- Ranked seating – test methods and requirements for strength and durability (level 1)

Test Item	Test Method & Test Requirement	Test Result
6.3 Seat and Back Static Load Test	Test loading: Seat: 1300N Backrest: 560N Repeat test for 10 cycles. When this test is applied to a stool without a backrest, or with a very low back, apply the backward force horizontally to the front edge of the seat.	Pass
6.4 Horizontal Forward Static Load to Back	A horizontal forward static load shall be applied using the smaller seat loading pad (5.3) at a point 50 mm below the centre of the top of the back. The appropriate force 0 N shall be applied 10 times.	Pass
6.5 Vertical Static Test on Back	Apply the downwards force 0 N a total of 10 times to the top of the back through the seat loading pad (5.2). If it is not possible to use the seat loading pad, apply the force with the smaller seat loading pad (5.3).	Pass
6.6 Arm Sideways Static Load Test	Apply a pair of outward forces 400 N to the arms of the unit at the point along the arms considered most likely to cause failure, but not less than 100 mm from either end of the arm structure. Apply the forces 10 times, using the local loading pad.	NA
6.7 Arm Downwards Static Load Test	Apply the vertical force 800N, 10 times at the point along the arms considered most likely to cause failure, (see Figure 11), but not less than 100 mm from either end of the arm structure. Apply the load through the smaller seat loading pad	NA
6.11 Seat Impact Test	Place one layer of foam on the seat, and determine the drop height. Place a second layer of foam (5.6) on the seat. Allow the seat impactor (see 5.9 and Figure 7) to fall freely from the height of 180 mm onto the seat loading point as specified by the loading position template (4.4). Carry out the test for a total of 10 times. Repeat at any other position considered likely to cause failure. For articles with more than one seating position apply the test to one end seat only.	Pass
6.12 Back Impact Test	Strike the centre of the structure of the top outside of the back with the impact hammer (5.10) for a total of 10 times. Drop the impact hammer through the height of 210mm or the angle of 38 degrees. Repeat at any other position on the outside of the back considered most likely to cause failure. When the article has no back, strike the centre of the seat rear edge. For articles with more than one seating position, apply the test to one end seating position only.	Pass

To be continued...

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Test Item	Test Method & Test Requirement	Test Result
6.13 Arm Impact Test	Carry out the test in the same manner as the back impact test (6.12) except that the impact shall be applied in an inward direction to the outside face of one end of row arm at the position considered most likely to cause a failure. Drop the impact hammer through the height of 210mm or the angle of 38 degrees for a total of 10 times.	NA
6.14 Tipping Seat Operation Test	If the installation has tip-up seats one seat of the test structure shall be operated from fully closed to fully open for 25000 times at a maximum rate of 10 cycles per minute. During each cycle the seat shall be allowed to open or close freely under gravity if this is its correct mode of operation.	Pass
6.8 Seat and back durability test	Carry out the test at one position or consecutively at two positions as specified in a), b), or c) below. a) on the one seat and back for samples with individual seats and no common structural members. b) on one end seat and back and the adjacent seat and back for samples of continuous seating or individual seats with common structural members. c) on the centre pair of seats and backs for samples of continuous seating with 4 or more seating positions. During the test load the other seat(s) that are not being tested with a force of 950N or a mass of 96,8 kg applied at the seat loading point. Seat Load: 950N; Backrest load: 330N; Cycles:50000;	Pass
6.9 Seat Front Edge Durability Test	Apply the vertical seat load 950N using the smaller seat loading pad (5.3) alternately on two points each 80 mm from the front edge of the seat structure and as near as possible to either side of the seat but not less than 80 mm from the edges. For articles with more than one seating position, the test shall be carried out as above on one end seat and then with the front edge durability loads applied to the centre line only of the adjacent seat. Apply the forces for 50000 cycles.	Pass
6.10 Horizontal Forward Durability Test to Back	The horizontal force of 330N shall be applied acting forwards using the smaller seat loading pad (5.3) 50 mm below the centre of the top of the back of one end seat only. The force shall be applied for 0cycles.	Pass

To be continued...

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Test Item	Test Method & Test Requirement	Test Result
6.3 Seat and Back Static Load Test	Test loading: Seat: 1300N Backrest: 560N Repeat test for 10 cycles. When this test is applied to a stool without a backrest, or with a very low back, apply the backward force horizontally to the front edge of the seat.	Pass
6.15 Vertical Static Load on Auxiliary Writing Surface	Apply the downward vertical force of 150N, 10 times at a point 80 mm from two adjacent sides on the corner farthest from any support using the local loading pad (5.5).	NA
6.16 Auxiliary Writing Surface Durability Test	Apply a downward vertical force of 150 N at the same position as specified in 6.15 using the local loading pad (5.5) for the number of 10000 times.	NA

Remark: NA – Not applicable;

Photo appendix:



Sample as received

End of Report

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Test Report

No.:SDHGR101102148FT

Date: Dec 06, 2010

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ROOM D-E, 18F, EAST TOWER, HAIJING CENTER, 152#HUANGPU AVENUE(MID), TIANHE DISTRICT,
GUANGZHOU, CHINA

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

Sample Description : AUDITORIUM CHAIR
Style / Item No. : LS-6619S/SG
Manufacturer : FOSHAN LEADCOM SEATING CO., LTD
Test Performed : Selected test(s) as requested by applicant
Sample Receiving Date : Nov 18, 2010
Sample Resubmission Date : Dec 02, 2010
Test Performing Date : Nov 18, 2010 to Dec 06, 2010
Test Result(s) : For further details, please refer to the following page(s)

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



Jack Yao
Section Manager

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Test Conducted: BS EN 12727: 2000 Furniture- Ranked seating – test methods and requirements for strength and durability (level 1)

Test Item	Test Method & Test Requirement	Test Result
6.3 Seat and Back Static Load Test	Test loading: Seat: 1300N Backrest: 560N Repeat test for 10 cycles. When this test is applied to a stool without a backrest, or with a very low back, apply the backward force horizontally to the front edge of the seat.	Pass
6.4 Horizontal Forward Static Load to Back	A horizontal forward static load shall be applied using the smaller seat loading pad (5.3) at a point 50 mm below the centre of the top of the back. The appropriate force 0 N shall be applied 10 times.	Pass
6.5 Vertical Static Test on Back	Apply the downwards force 0 N a total of 10 times to the top of the back through the seat loading pad (5.2). If it is not possible to use the seat loading pad, apply the force with the smaller seat loading pad (5.3).	Pass
6.6 Arm Sideways Static Load Test	Apply a pair of outward forces 400 N to the arms of the unit at the point along the arms considered most likely to cause failure, but not less than 100 mm from either end of the arm structure. Apply the forces 10 times, using the local loading pad.	Pass
6.7 Arm Downwards Static Load Test	Apply the vertical force 800N, 10 times at the point along the arms considered most likely to cause failure, (see Figure 11), but not less than 100 mm from either end of the arm structure. Apply the load through the smaller seat loading pad	Pass
6.11 Seat Impact Test	Place one layer of foam on the seat, and determine the drop height. Place a second layer of foam (5.6) on the seat. Allow the seat impactor (see 5.9 and Figure 7) to fall freely from the height of 180 mm onto the seat loading point as specified by the loading position template (4.4). Carry out the test for a total of 10 times. Repeat at any other position considered likely to cause failure. For articles with more than one seating position apply the test to one end seat only.	Pass
6.12 Back Impact Test	Strike the centre of the structure of the top outside of the back with the impact hammer (5.10) for a total of 10 times. Drop the impact hammer through the height of 210mm or the angle of 38 degrees. Repeat at any other position on the outside of the back considered most likely to cause failure. When the article has no back, strike the centre of the seat rear edge. For articles with more than one seating position, apply the test to one end seating position only.	Pass

To be continued...

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Test Item	Test Method & Test Requirement	Test Result
6.13 Arm Impact Test	Carry out the test in the same manner as the back impact test (6.12) except that the impact shall be applied in an inward direction to the outside face of one end of row arm at the position considered most likely to cause a failure. Drop the impact hammer through the height of 210mm or the angle of 38 degrees for a total of 10 times.	Pass
6.14 Tipping Seat Operation Test	If the installation has tip-up seats one seat of the test structure shall be operated from fully closed to fully open for 25000 times at a maximum rate of 10 cycles per minute. During each cycle the seat shall be allowed to open or close freely under gravity if this is its correct mode of operation.	Pass
6.8 Seat and back durability test	Carry out the test at one position or consecutively at two positions as specified in a), b), or c) below. a) on the one seat and back for samples with individual seats and no common structural members. b) on one end seat and back and the adjacent seat and back for samples of continuous seating or individual seats with common structural members. c) on the centre pair of seats and backs for samples of continuous seating with 4 or more seating positions. During the test load the other seat(s) that are not being tested with a force of 950N or a mass of 96,8 kg applied at the seat loading point. Seat Load: 950N; Backrest load: 330N; Cycles:50000;	Pass
6.9 Seat Front Edge Durability Test	Apply the vertical seat load 950N using the smaller seat loading pad (5.3) alternately on two points each 80 mm from the front edge of the seat structure and as near as possible to either side of the seat but not less than 80 mm from the edges. For articles with more than one seating position, the test shall be carried out as above on one end seat and then with the front edge durability loads applied to the centre line only of the adjacent seat. Apply the forces for 50000 cycles.	Pass
6.10 Horizontal Forward Durability Test to Back	The horizontal force of 330N shall be applied acting forwards using the smaller seat loading pad (5.3) 50 mm below the centre of the top of the back of one end seat only. The force shall be applied for 0cycles.	Pass

To be continued...

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Test Item	Test Method & Test Requirement	Test Result
6.3 Seat and Back Static Load Test	Test loading: Seat: 1300N Backrest: 560N Repeat test for 10 cycles. When this test is applied to a stool without a backrest, or with a very low back, apply the backward force horizontally to the front edge of the seat.	Pass
6.15 Vertical Static Load on Auxiliary Writing Surface	Apply the downward vertical force of 150N, 10 times at a point 80 mm from two adjacent sides on the corner farthest from any support using the local loading pad (5.5).	NA
6.16 Auxiliary Writing Surface Durability Test	Apply a downward vertical force of 150 N at the same position as specified in 6.15 using the local loading pad (5.5) for the number of 10000 times.	NA

Remark: NA – Not applicable;

Photo appendix:



Sample as received

End of Report

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