



SGS U.S. Testing Company Inc.

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CLIENT: National Public Seating Corp.
599 Industrial Avenue
Paramus, New Jersey 06752

Test Report No: 170335**Date:** August 22, 2002

The following sample was submitted by the Client as:

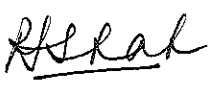
8100 Stacker Chair

DATE OF RECEIPT: August 6, 2002**TESTING PERIOD:** August 13, 2002 to August 22, 2002**AUTHORIZATION:** Client's letter dated July 16, 2002.

TESTS REQUESTED: ANSI/BIFMA X5.1-1993
"American National Standard for Office Furnishings - General Purpose
Office Chairs - Tests".

CONCLUSION: The submitted sample **complied** with all applicable requirements of the
referenced specification as summarized on Page 2.

PREPARED BY:


Piyush Shah, Manager
Products Evaluation
lv

**SIGNED FOR AND ON BEHALF OF
SGS U.S. TESTING COMPANY INC.**


for Gabriel Falla, Vice President
Operations

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SUMMARY OF RESULTS:

<u>Test No.</u>	<u>Description</u>	<u>Results</u>
7	Back Strength Test - Static - Type IIb	Complies
9	Drop Test - Dynamic	Complies
12	Seating Impact Test - Cyclic	Complies
17	Back Durability Test - Cyclic - Type IIa and Type IIb	Complies
19	Leg Strength Test - Front Application - Static	Complies
20	Leg Strength Test - Side Application - Static	Complies

TEST PROCEDURES AND RESULTS:

The following test program was conducted in a laboratory environment maintained at 70°F and 50% Relative Humidity. Each sample was individually tested after conditioning in the test environment for at least 48 hours prior to conducting the test.

The complete detailed procedures may be found in the referenced specification and are only summarized herein. The results obtained for each of the applicable tests are presented in their respective section describing the procedure below:



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TEST PROCEDURES AND RESULTS: Continued**7. Back Strength Test - Static - Type IIb****Procedure:**

The unit was placed on a test platform in an upright position and restrained from movement. Adjustable features were set to their normal or midpoint position as applicable.

A loading device was attached to the back 16 inches above the seating surface.

A functional load of 150 lbf was applied 90° to the plane of the back for 1 minute and maintained until deflection was reasonably stabilized. The load was released and then a proof load of 250 lbf was applied.

Results:

The chair was capable of withstanding the loads with no structural breakage or loss of serviceability.

9. Drop Test - Dynamic**Procedure:**

The chair was placed on the test surface with adjustable features set to their normal or midpoint positions as applicable. Casters were turned 90° to the base legs as viewed from above.

A test bag approximately 16 inches in diameter weighing 225 pounds was allowed to free-fall 6 inches to the center of the seat.

The weight of the bag was then increased to 300 pounds and the test repeated.

Results:

No structural breakage, loss of serviceability to the chair or failure that in any way would cause personal injury to the occupant was observed.



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TEST PROCEDURES AND RESULTS: Continued**12. Seating Impact Test - Cyclic****Procedure:**

The unit was secured to a test platform. All adjustments were set at midpoint (where applicable).

A test bag 16 inches (406mm) in diameter and weighing 125 pounds was attached to a cycling device, permitting a free-fall to the center of the seat from a height of 2 inches above its at rest position.

The seat was subjected to 100,000 such impacts at a rate of 5 and 40 cycles per minute.

Results:

No structural breakage or loss of serviceability was apparent.

17. Back Durability Test - Cyclic - Type IIa and Type IIb**Procedure:**

The unit was placed on a test platform in an upright position and restrained from movement. A 100 lb dead load was placed on the seat.

If adjustable features were available, all adjustments were set at the midpoint of the normal range.

A cycling device was attached to the center of the back 16 inches above the seat. The cycling device was adjusted to apply a force of 75 lbs, 90° to the plane of the back. The device was cycled for 120,000 cycles at a rate of 5 to 40 cycles per minute.

Results:

No structural breakage or loss of serviceability resulted.



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TEST PROCEDURES AND RESULTS: Continued**19. Leg Strength Test - Front Application - Static****Procedure:**

The chair was placed on its back clamped to the test platform by its rear legs.

A functional load of 75 pounds was applied 1-inch from the bottom of a leg in the rearward direction. The load was applied once to each front leg individually for 1 minute and maintained until deflection was stabilized.

A proof load of 125 lbf was then applied as before to each front leg.

Results:

There was no evidence of structural breakage or loss of serviceability from the application of both types of loads.

20. Leg Strength Test - Side Application - Static**Procedure:**

The loading was then repeated for side load application with the chair clamped to the test platform lying on its side.

Results:

No failure that in any way would cause personal injury to the occupant resulted and no loss of serviceability was observed after the application of the 75 lbf functional and 115-lbf proof loading.

End of Report