

# INTEGRITY TESTING LABORATORIES,

## CLIENT:

WorkStation Industries  
1938 E. Pomona St  
Santa Ana, CA. 92705  
Attn: Albert Cappello

LABORATORY NO: F1304241-3  
DATE: August 19, 2013  
CLIENT P.O. NO.: vbl, A. Cappello  
STANDARD: ANSI/BIFMA X5.1-11

**SAMPLE:** SEATING, 500 SERIES, TO INCLUDE BOTH BLACK VINYL (26") (NYLON) AND CHROME (26") (ALUMINUM) BASES, 5"-8"-10" CYLINDERS AND OPTIONAL FOOT RING, (SAMPLE BACK BARS, BASES, AND CASTERS WERE MODIFIED FOR CONFORMANCE)

## ABSTRACT

This report serves to document the testing of the above sample chair to **all applicable test paragraphs** of ANSI/BIFMA X5.1-2011, tests for general-purpose office chairs. Testing for complete certification was performed for this type of chair, classified by the standard's definitions as a Type III chair. The remainder of this report will show how the chair submitted for testing **met the requirements needed for conformance** to the standard.



5000 SERIES SEATING

Integrity Testing - 469 CR 306, Corinth MS 38834 - Phone: (714) 630-2363

This report applies only to the sample or samples submitted for testing and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, or these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed, and upon that condition that it not be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these laboratories.

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**RESULTS**

Test Number	Test Description	Test loads and Cycles	Observations
6	Back strength-Static-Type II & III	150 lb and 250 lb rearward loads applied to chair back (Back bar modification incorporated for conformance)	<b>PASS</b> -No failure during any load application
7	Base test-Static	Two 2,500 lb load applications for one minute each	<b>PASS</b> -No failure during either load application
8	Drop test-Dynamic	225 lb and 300 lb shot filled bag dropped from 6" at highest and lowest seating positions (alternate casters were substituted for conformance)	<b>PASS</b> -No failure during any load application
9	Swivel test-Cyclic	225 lb load on restrained seat, base rotated 120,000 cycles	<b>PASS</b> -No loss of serviceability after the performance of the test
11	Seating durability-Cyclic	125 lb shot filled bag dropped from 2", 100,000 cycles, alternating 165 lb loads to both front corners for 40,000 cycles	<b>PASS</b> -No failure or loss of serviceability after the performance of the tests
12.3	Stability test-Rear-Dynamic	Six and then thirteen test disks were placed on seating surface and rearward tipping force was recorded (Back bar modification and base substitution incorporated for conformance)	<b>PASS</b> - Sample did not tip backward and met tipping force requirements
12.4	Stability test-Forward-Dynamic	135 lb test mass 2.4" from front edge of seat, 4.5 lbf forward tipping force	<b>PASS</b> -sample did not tip forward
16	Back durability-Cyclic-Type II & III	100 lb load on restrained seat, 75 lb rearward load applied to chair back for 120,000 cycles. 80,000 center, and 20,000 4" off center right and left each	<b>PASS</b> -No failure or loss of serviceability after the performance of the test
17	Caster durability-Cyclic	300 lb load on base and casters, 30" back and forth travel for a total of 100,000 cycles	<b>PASS</b> -No loss of serviceability after the performance of the test
19	Footrest Strength - Static	Two 100 lb loads applied simultaneously to perimeter of footrest, one load increased to 200 lbs.	<b>PASS</b> -No failure or loss of serviceability after the performance of the test
20	Footrest durability-Cyclic	200 lb downward load applied to perimeter of footrest for 50,000 cycles	<b>PASS</b> -No failure or loss of serviceability after the performance of the test

**CONCLUSION**

During the execution of the testing program, the **500 SERIES SEATING**, performed well with no structural failures or loss of serviceability. The samples submitted for testing **conform to all of the applicable test paragraphs** of ANSI/BIFMA X5.1-2011.

Respectfully submitted,

  
 Edwin A. Leach, Laboratory Director  
 INTEGRITY TESTING LABORATORIES

