

# INTEGRITY TESTING LABORATORIES,

a division of ErgoLabs, Inc.

## CLIENT:

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Attention: Paul Molina

LABORATORY NO: F0712013-1  
DATE: December 22, 2007  
CLIENT P.O. NO.: Verbal, P. Molina  
STANDARD: ANSI/BIFMA X5.1-02

**SAMPLE:** ONE 4 LEG SIDE CHAIR, MODEL 1006 NAVY

## ABSTRACT

This report serves to document the testing of the above sample chair to all applicable test paragraphs of ANSI/BIFMA X5.1-2002, 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, fixed-seat, fixed-back chair. The remainder of this report will show how the chair submitted for testing **met the requirements** needed for conformance to the standard.



**SIDE CHAIR, MODEL 1006 NAVY**

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C:\My Documents\FURNITURE REPORTS\Emeco\F0712013-1 1006 Navy-Side.doc


**RESULTS**

Test Number	Test Description	Test loads and Cycles	Observations
6	Back strength-Static-Type III	150 lb and 250 lb rearward loads applied to chair back	<b>PASS</b> -No failure during either load application
8	Drop test-Dynamic	225 lb and 300 lb shot filled bag dropped from 6"	<b>PASS</b> -No failure during either load application
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	173 lb test mass on seat, rearward tipping force recorded	<b>PASS</b> - 42 lb force exceeds 35 lb Type IIb requirement
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 III	100 lb load on restrained seat, 75 lb rearward load applied to chair back for 120,000 cycles	<b>PASS</b> -No failure or loss of serviceability after the performance of the test
18.3	Leg strength-front load-Static	75 lb and 125 lb front to rear loads applied to bottom of chair leg	<b>PASS</b> -No failure during either load application
18.4	Leg strength-side load-Static	75 lb and 115 lb inward loads applied to bottom of chair leg	<b>PASS</b> -No failure during either load application

**CONCLUSION**

During the execution of the testing program, the model 1006 Navy side chair performed well with no structural failures or loss of serviceability. This sample submitted for testing **conforms** to all of the applicable test paragraphs of ANSI/BIFMA X5.1-2002.

Respectfully submitted,

  
Edwin A. Leach, Project Manager  
INTEGRITY TESTING LABORATORIES,  
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