

CONSET AMERICA LLC TEST REPORT

SCOPE OF WORK

ANSI/BIFMA X5.5-2014 DESK PRODUCTS STANDARD testing on Series 501-33 Electrical Height Adjustable Table

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SECTION 1

CLIENT INFORMATION

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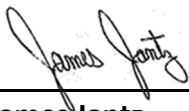
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SECTION 2

SUMMARY AND CONCLUSION

Date Received: 12-Jun-2017
 Dates Tested: 12-Jun-2017 to 11-Jul-2017

DESCRIPTION OF SAMPLES

Part Description: Series 501-33 Electrical Height Adjustable Table
 Condition of Samples: Production

WORK REQUESTED/APPLICABLE DOCUMENTS

ANSI/BIFMA X5.5-2014 DESK PRODUCTS STANDARD
 Intertek quote Qu-00779623

CONCLUSION

TEST	RESULTS
4.3 Stability Under Vertical Load Test	CONFORMING
4.6 Force Stability Test for Tall Desk/Table Products	CONFORMING
5.2 Concentrated Functional Load Test	CONFORMING
5.3 Distributed Functional Load Test	CONFORMING
5.4 Concentrated Proof Load Test	CONFORMING
5.5 Distributed Proof Load Test	CONFORMING
6. Top Load Ease Cycle Test	CONFORMING
7. Desk/Table Unit Drop Test	CONFORMING
8. Leg Strength Test	CONFORMING
15. Work Surface Vertical Adjustment Test	CONFORMING

SAMPLE DISPOSITION

After test completion, samples were dismantled and then disposed of per client request.

TEST EQUIPMENT:

ASSET NUMBER	DESCRIPTION	LAST CAL	NEXT DUE
138012	Scale/0-1,000#	10/18/2016	10/18/2017
138039.1	WEIGHT BAG	VBU	VBU
138112	Graduated Rule 36"	10/11/2013	10/11/2018
138148	DIGITAL PROTRACTOR	9/20/2016	9/20/2017
138238	CONTROLLER	CBU	CBU
138279	FORCE GAUGE	3/3/2017	3/3/2018
138397	Portable Vertical Loading Test Stand	VBU	VBU
138426	Scientific Stopwatch	4/26/2017	4/26/2018
138427	1000LB LOAD CELL WITH DISPLAY	5/18/2017	5/18/2018

SECTION 3

4.3 STABILITY UNDER VERTICAL LOAD TEST

Date Received: 12-Jun-2017
Date Tested: 18-Jul-2017
Location Tested: Intertek Kentwood, MI

DESCRIPTION OF SAMPLES:

Part Description: Series 501-33 Electrical Height Adjustable Table
Condition of Samples: Production

TEST PROCEDURE:

Test Method: Per ANSI/BIFMA X5.5-2014 Test No. 4.3:
The unit shall be levelled. Placement of the load shall be on a 12" diameter disk 1" from the edge at the least stable position.

Top Load: 125 lbs.

Number of Samples: One (1)

ACCEPTANCE CRITERIA:

Per ANSI/BIFMA X5.5-2014 Test No. 4.3:
The unit shall not tip over.

RESULTS:

SAMPLE ID	STATIC LOAD	DESCRIPTION OF RESULTS
1	125 lbs.	Conforming

The submitted sample met the acceptance criteria of the test described above. Refer to the following page for photograph.



Stability Under Vertical Load Test

4.6 FORCE STABILITY TEST FOR TALL DESK/TABLE PRODUCTS:

Date Received: 12-Jun-2017
 Date Tested: 18-Jul-2017
 Location Tested: Intertek Kentwood, MI

DESCRIPTION OF SAMPLES:

Part Description: Series 501-33 Electrical Height Adjustable Table
 Condition of Samples: Production

TEST PROCEDURE:

Test Method: Per ANSI/BIFMA X5.5-2014 Test No. 4.6:

Test applies to units that can be adjusted to heights greater than 42".

The unit shall be leveled.

Units shall be positioned at a height that places them at their least stable condition.

Apply the force through an 8" diameter disc to all four (4) sides of the unit 54" from the floor or 4" from the top edge until 40 lbf is reached or the product tilts to 10 degrees.

Load to be applied: 40 lbs.

Number of Samples: One (1)

ACCEPTANCE CRITERIA:

Per ANSI/BIFMA X5.5-2014 Test No. 4.6:
 The unit shall not tip over.

RESULTS:

SAMPLE ID	STATIC LOAD	DESCRIPTION OF RESULTS
1	40 lbf or 10° tilt	Conforming

The submitted sample met the acceptance criteria of the test described above. Refer to the following page for photograph.



Force Stability Test for Tall Desk/Table Products

5.2 – 5.5 UNIT STRENGTH TESTS:

Date Received: 12-Jun-2017
 Date Tested: 18-Jul-2017
 Location Tested: Intertek Kentwood, MI

DESCRIPTION OF SAMPLES:

Part Description: Series 501-33 Electrical Height Adjustable Table
 Condition of Samples: Production

TEST PROCEDURE:

Test Method: Per ANSI/BIFMA X5.5-2014 Test Nos. 5.2 – 5.5:

Number of Samples: One (1)

ACCEPTANCE CRITERIA:

Per ANSI/BIFMA X5.5-2014 Test Nos. 5.2 – 5.5:

Functional Load: There shall be no loss of serviceability.

Proof Load: There shall be no major change in the structural integrity.

RESULTS:

SAMPLE ID	SURFACE TO BE TESTED (CLASS)	WORK SURFACE	RESULTS
1	Surface Size	202 in.	
	<u>Concentrated Loads (lbs.)</u>		
	Functional:	200 lbs.	Conforming
	Proof:	300 lbs.	Conforming
	<u>Distributed Load (lbs.)</u>		
	Functional:	303 lbs.	Conforming
	Proof	465 lbs.	Conforming

The submitted sample met the acceptance level criteria of the test described above. Refer to the following pages for photographs.



Concentrated Functional Load Test



Concentrated Proof Load Test



Distributed Functional Load Test



Distributed Proof Load Test

6. TOP LOAD EASE CYCLE TEST:

Date Received: 12-Jun-2017
Date Tested: 18-Jul-2017 to 19-Jul-2017
Location Tested: Intertek Kentwood, MI

DESCRIPTION OF SAMPLES:

Part Description: Series 501-33 Electrical Height Adjustable Table
Condition of Samples: Production

TEST PROCEDURE:

Test Method: Per ANSI/BIFMA X5.5-2014 Test No. 6:
Number of Cycles: 10,000
Load: 200 lbs.
Cycles Per Minute: 14 ± 6
Load Drawers with: 0.017 lbs./cu. in.
Load Area: 16" Diameter
Number of Samples: One (1)

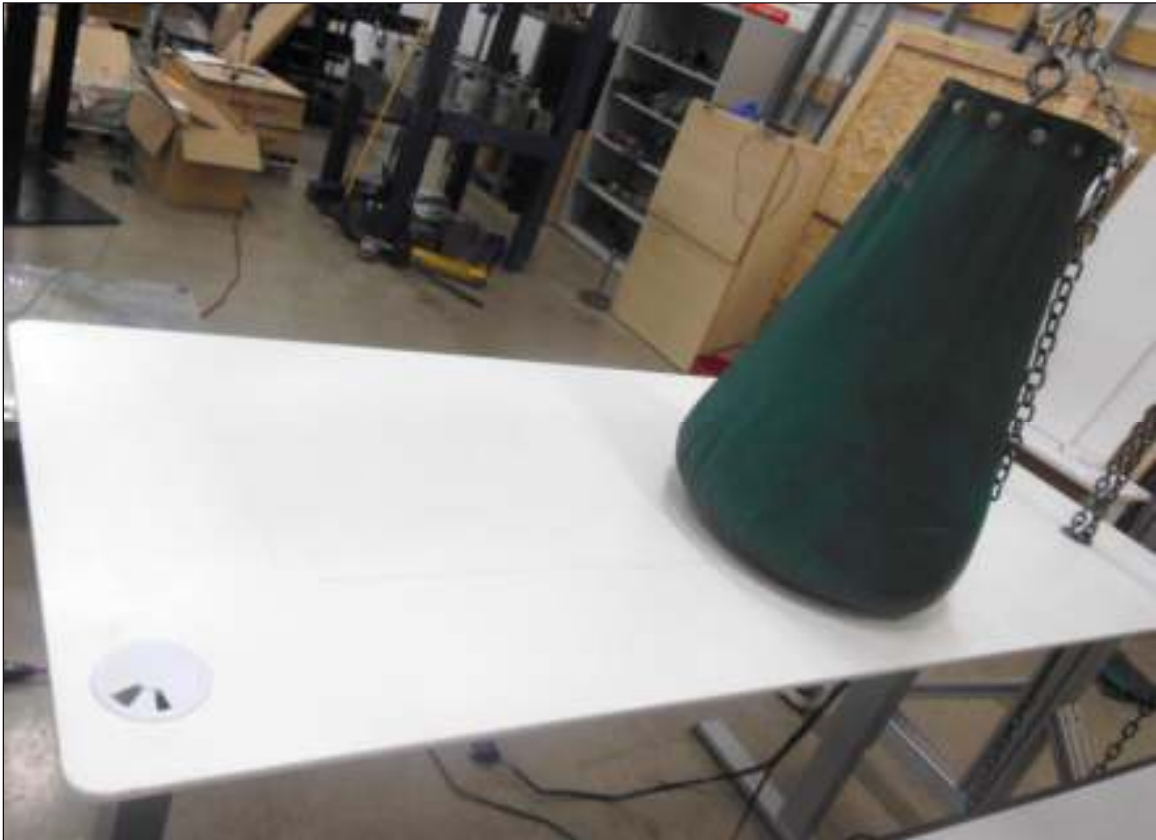
ACCEPTANCE CRITERIA:

Per ANSI/BIFMA X5.5-2014 Test No. 6:
There shall be no loss of serviceability. A pull force to overcome anti-rebound or interlock and to fully extend the drawer shall not exceed 11.2 lbs.

RESULTS:

SAMPLE ID	NUMBER OF CYCLES	RESULTS
1	10,000	Conforming

The submitted sample met the acceptance level criteria of the test described above. Refer to the following page for photograph.



Top Load Ease Cycle Test

7. DESK/TABLE UNIT DROP TEST:

Date Received: 12-Jun-2017
 Date Tested: 19-Jul-2017
 Location Tested: Intertek Kentwood, MI

DESCRIPTION OF SAMPLES:

Part Description: Series 501-33 Electrical Height Adjustable Table
 Condition of Samples: Production

TEST PROCEDURE:

Test Method: Per ANSI/BIFMA X5.5-2014 Test No. 7:
 NOTE: Test applies to freestanding Category 1 Desk or Tables that are less than 72" in length. Test does not apply to units with casters or keyboard tables
 Set all adjustable features at midpoint.

Unit Weight: 97 lbs.

Number of Samples: One (1)

DROP HEIGHT FOR DESK/TABLE UNITS

UNIT WEIGHT	DROP HEIGHT
< 45 kg (100 lbs.)	180 mm (7.1 in.)
45 – 90 kg (100 - 200 lbs.)	120 mm (4.7 in.)
> 90 – 136 kg (200 - 300 lbs.)	60 mm (2.4 in.)
> 136 kg (300 lb.)	N / a

ACCEPTANCE CRITERIA:

Per ANSI/BIFMA X5.5-2014 Test No, 7:
 There shall be no loss of serviceability. The extendible elements shall meet the pull force test requirements in Section 19.

RESULTS:

SAMPLE ID	DROP HEIGHT	RESULTS
1	7.1 in.	Conforming

The submitted sample met the acceptance level criteria of the test described above. Refer to the following page for photograph.



Desk/Table Unit Drop Test

8. LEG STRENGTH TEST:

Date Received: 12-Jun-2017
 Date Tested: 19-Jul-2017
 Location Tested: Intertek Kentwood, MI

DESCRIPTION OF SAMPLES:

Part Description: Series 501-33 Electrical Height Adjustable Table
 Condition of Samples: Production

TEST PROCEDURE:

Test Method: Per ANSI/BIFMA X5.5-2014 Test No. 8:
 NOTE: Based on the Desk or Table Category Calculate Functional and Proof Loads.

Unit Weight: 97 lbs.

Number of Samples: One (1)

ACCEPTANCE CRITERIA:

Per ANSI/BIFMA X5.5-2014 Test No. 8:
 Functional Load: No loss of serviceability.
 Proof Load: No major changes in the structural integrity.

RESULTS:

SAMPLE ID	SURFACE TO BE TESTED (CLASS)	RESULTS
1	Functional Load	
	Inward Static Load to Leg: 99 lbs.	Conforming
	Outward Static Load to Leg: 49 lbs.	Conforming
	Proof Load:	
	Inward Static Load to Leg: 148 lbs.	Conforming
	Outward Static Load to Leg: 74 lbs.	Conforming

The submitted sample met the acceptance level criteria of the test described above. Refer to the following page for photograph.



Leg Strength Test – Functional Load



■ Leg Strength Test -- Proof Load

15. WORK SURFACE VERTICAL ADJUSTMENT TEST:

Date Received: 12-Jun-2017
 Date Tested: 11-Jul-2017 to 17-Jul-2017
 Location Tested: Intertek Kentwood, MI

DESCRIPTION OF SAMPLES:

Part Description: Series 501-33 Electrical Height Adjustable Table
 Condition of Samples: Production

TEST PROCEDURE:

Test Method: Per ANSI/BIFMA X5.5-2014 Test No. 15:
 Number of Cycles: 1,000 in each quartile.
 Load: 100 lbs.
 Cycle Rate: Recommended by manufacturer or six (6) cycles per minute.

Number of Samples: One (1)

ACCEPTANCE CRITERIA:

Per ANSI/BIFMA X5.5-2014 Test No. 15:
 There shall be no loss of serviceability. For tables with crank driven adjustment mechanisms, the operating force on the handle to adjust the table shall not exceed 11.2 lbs.

RESULTS:

SAMPLE ID	QUARTILE	DESCRIPTION OF RESULTS
1	1	Conforming
	2	Conforming
	3	Conforming
	4	Conforming

The submitted sample met the acceptance level criteria of the test described above. Refer to the following page for photograph.



Work Surface Vertical Adjustment Test

SECTION 4

REVISIONS MADE TO TEST REPORT

DATE	REVISION DESCRIPTION	REVISED BY	REVISED BY
26-Jul-2017	Initial release.	James Jantz	