



Test Report
 4787800960.1
 UL
 3480 Windquest Dr.
 Holland, MI 49424
 PH 616-928-0791
 www.furnituretest.com



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Dates Tested:	01/03/17 – 02/03/17
Date Submitted:	02/03/17
Technician:	Ron Day
UL Order / Project Number:	11580629 / 4787800960.1

Scope: To evaluate MOJO Height Adjustable Table (72w x 46d – L Shape), manufactured Xybix Systems Inc., by subjecting it to the following tests:

Requested Tests:

<u>Test Name</u>	<u>Requirement</u>
Stability Under Vertical Load Test	ANSI/BIFMA X5.5-2014, Section 4.3
Force Stability Test for Tall Desk/Table Products	ANSI/BIFMA X5.5-2014, Section 4.6
Concentrated Functional Load Test	ANSI/BIFMA X5.5-2014, Section 5.2
Distributed Functional Load Test	ANSI/BIFMA X5.5-2014, Section 5.3
Concentrated Proof Load Test	ANSI/BIFMA X5.5-2014, Section 5.4
Distributed Proof Load Test	ANSI/BIFMA X5.5-2014, Section 5.5
Top Load Ease Cycle Test	ANSI/BIFMA X5.5-2014, Section 6
Desk Table Unit Drop Test	ANSI/BIFMA X5.5-2014, Section 7
Leg Strength Test	ANSI/BIFMA X5.5-2014, Section 8
Work Surface Vertical Adjustment Test	ANSI/BIFMA X5.5-2014, Section 15

Product Description:

<u>Specimen (UL ID)</u>	<u>Description</u>	<u>Condition</u>	<u>Supplier</u>
718514	MOJO Height Adjustable Table (72w x 46d – L Shape)	New	Xybix Systems Inc.

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Summary:

<u>Test Name</u>	<u>Results</u>
Stability Under Vertical Load Test	Passed
Force Stability Test for Tall Desk/Table Products	Passed
Concentrated Functional Load Test	Passed
Distributed Functional Load Test	Passed
Concentrated Proof Load Test	Passed
Distributed Proof Load Test	Passed
Top Load Ease Cycle Test	Passed
Desk Table Unit Drop Test	Passed
Leg Strength Test	Passed
Work Surface Vertical Adjustment Test	Passed

Load Calculations:

<u>Specimen</u>	<u>Type</u>	<u>Calculation</u>	<u>Load (lbs.)</u>
718520	Distributed Functional	212" x 1.5	326 lbs.
	Distributed Proof	212" x 2.3	499 lbs.



Test Results:

1. Stability under Vertical Load Test:

Testing was performed per ANSI/BIFMA X5.5-2014, Section 4.3.

Notes:

- Temperature / humidity 72° F / 51 RH%.
- Table was set to the top of its height adjustment.
- A 125 lb. load was applied through a 12" disc.
- Disc position was 1" in from the rear corner at the least stable position of the table.
- See Photo 1 for setup.



<u>Specimen</u>	<u>Location</u>	<u>Observations</u>
718514	Rear Corner	Unit did not tip over.

Requirement: *The unit shall not tip over. If an extendible element opens during the test and prevents the unit from tipping over due to contact with the test platform, the unit does not meet the acceptance criteria.*

Equipment:	Tape measure (117768), Digital level (117596), Digital scale (117381)
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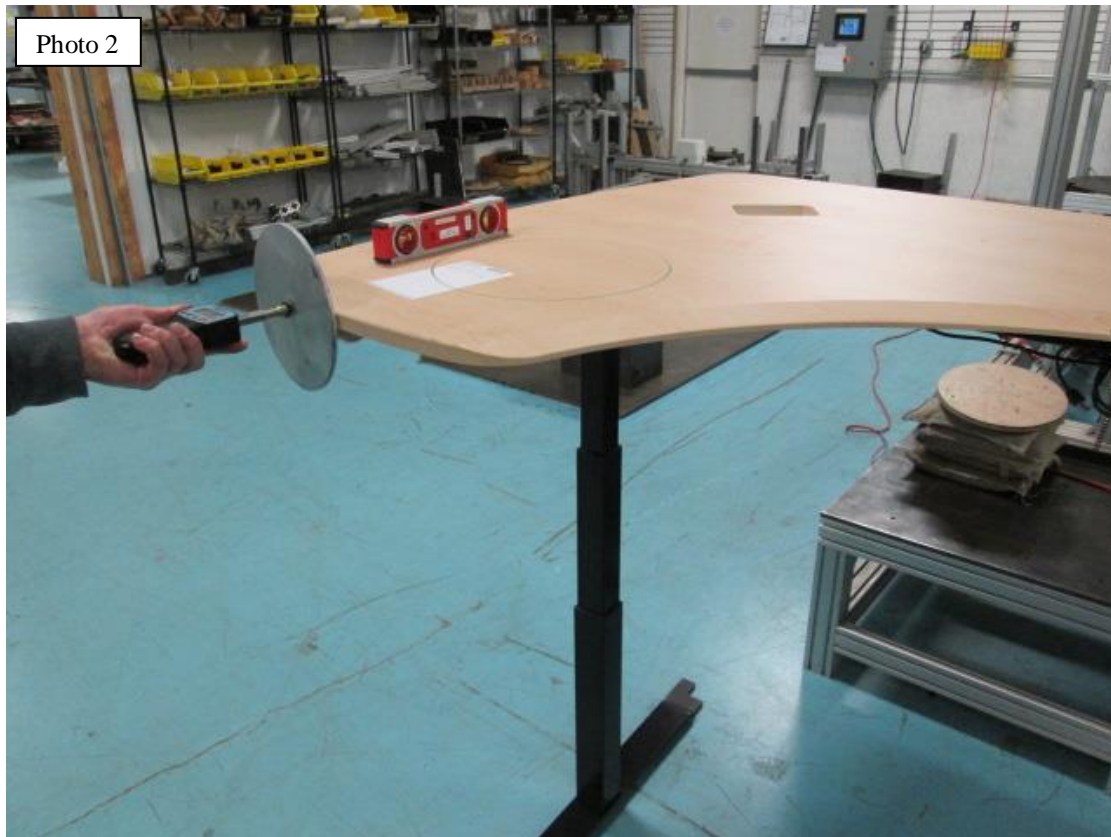


2. Force Stability Test for Tall Desk/Table Products:

Testing was performed per ANSI/BIFMA X5.5-2014, Section 4.6.

Notes:

- Temperature / humidity 72° F / 51 RH%.
- A force was applied through an 8" diameter disc centered 49.75" up from the floor (top of table height) at the following locations:
 - A) Left side of the front of the unit.
 - B) Right side of the front of the unit.
 - C) Left side of the rear of the unit.
 - D) Right side of the rear of the unit.
- The force was applied until 40 lbs. was reached or 10° of tip was achieved or 6.5 inches of the horizontal movement was reached at the point of application.
- See Photo 2 for setup.





2. Force Stability Test for Tall Desk/Table Products (continued):

<u>Specimen</u>	<u>Location</u>	<u>Force/Angle</u>	<u>Observations</u>
718514	A	26.4 lbs./10°	Unit did not tip over.
	B	32.3 lbs./10°	Unit did not tip over.
	C	31.5 lbs./10°	Unit did not tip over.
	D	29.2 lbs./10°	Unit did not tip over.

Requirement: *The unit shall not tip over, and there shall be no loss of serviceability. Assembled desk/table products shall not disengage. If one or more extendible elements opens during the test and prevents the unit from tipping over due to contact with the test platform, the unit does not meet the acceptance criteria.*

Equipment:	Force gage (138504), Digital level (117596), Tape measure (117768), Scale (117381)
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3. Concentrated Functional Load Test:

Testing was performed per ANSI/BIFMA X5.5-2014, Section 5.2.

Notes:

- Temperature / humidity 72° F / 50 RH%.
- Table was set to 38".
- A 200 lb. load was applied through a 12" disc positioned 1" in from the front edge at the side to side center of the table.
- Load was applied for 60 minutes.
- See Photo 3 for setup.



<u>Specimen</u>	<u>Load (lbs.)</u>	<u>Time (min.)</u>	<u>Observations</u>
718514	200	60	No loss of serviceability.

Requirement: *There shall be no loss of serviceability. Upon completion of the test, the extendible member(s) shall meet the pull force requirements of Section 19.*

Equipment:	Tape measure (117768), Stopwatch (126980), Digital level (117596), Digital scale (117381)
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4. Distributed Functional Load Test:

Testing was performed per ANSI/BIFMA X5.5-2014, Section 5.3.

Notes:

- Temperature / humidity 72° F / 51 RH%.
- Table was set to the top of its height adjustment.
- See table on page 2 for load calculation.
- Load applied for 60 minutes.
- See Photo 4 for setup.



<u>Specimen</u>	<u>Load (lbs.)</u>	<u>Time (min.)</u>	<u>Observations</u>
718514	326	60	No loss of serviceability.

Requirement: *There shall be no loss of serviceability. Upon completion of the test, the extendible member(s) shall meet the pull force requirements of Section 19.*

Equipment:	Tape measure (117768), Stopwatch (126980), Digital level (117596), Digital scale (117381)
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5. Concentrated Proof Load Test:

Testing was performed per ANSI/BIFMA X5.5-2014, Section 5.4.

Notes:

- Temperature / humidity 72° F / 51 RH%.
- Table was set to 38".
- A 300 lb. load was applied through a 12" disc positioned 1" in from the front edge at the side to side center of the table.
- Load was applied for 15 minutes.
- See Photo 5 for setup.



<u>Specimen</u>	<u>Load (lbs.)</u>	<u>Time (min.)</u>	<u>Observations</u>
718514	300	15	No sudden and major change in structural integrity.

Requirement: *There shall be no sudden and major change in structural integrity of the product. Loss of serviceability is acceptable.*

Equipment:	Tape measure (117768), Stopwatch (126980), Digital level (117596), Digital scale (117381)
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6. Distributed Proof Load Test:

Testing was performed per ANSI/BIFMA X5.5-2014, Section 5.5.

Notes:

- Temperature / humidity 72° F / 50 RH%.
- Table was set to the top of its height adjustment.
- See table on page 2 for load calculation.
- Load applied for 15 minutes.
- See Photo 6 for setup.



<u>Specimen</u>	<u>Load (lbs.)</u>	<u>Time (min.)</u>	<u>Observations</u>
718514	499	15	No sudden and major change in structural integrity.

Requirement: *There shall be no sudden and major change in structural integrity of the product. Loss of serviceability is acceptable.*

Equipment:	Tape measure (117768), Stopwatch (126980), Digital level (117596), Digital scale (117381)
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7. Top Load Ease Cycle Test:

Testing was performed per ANSI/BIFMA X5.5-2014, Section 6.

Notes:

- Temperature / humidity 72° F / 46 RH%.
- Table was set to 38".
- 200 lb. load was applied through a 16" bag.
- Bag position 1" in from the front edge, centered side to side.
- Load applied without impact and removed once per cycle.
- Test rate: 19 CPM.
- See Photo 7 for setup.



<u>Specimen</u>	<u>Cycles</u>	<u>Observations</u>
718514	0	Test begun.
	10,000	No loss of serviceability.

Requirement: *There shall be no loss of serviceability. Before and after the cycling test, the extendible member(s) shall meet the pull force requirements of Section 19.*

Equipment:	Test Machine (117789), Tape measure (117768), Stopwatch (126980), Digital scale (117381), Digital level (117596)
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8. Desk/Table Unit Drop Test:

Testing was performed per ANSI/BIFMA X5.5-2014, Section 7.

Notes:

- Temperature / humidity 72° F / 47 RH%.
- Unit weight: 132 lbs.
- Table was set to the mid-point of its height adjustment.
- Drop height: 4.7"
- See Photo 8 for setup.



<u>Specimen</u>	<u>End Raised</u>	<u>Observations</u>
718514	Left	No loss of serviceability.
	Right	No loss of serviceability.

Requirement: *There shall be no loss of serviceability. Before and after the drop test, the extendible member(s) shall meet the pull force requirements of Section 19.*

Equipment:	Tape measure (117768), Scale (117381)
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9. Leg Strength Test:

Testing was performed per ANSI/BIFMA X5.5-2014, Section 8.

Notes:

- Temperature / humidity 72° F / 48 RH%.
- Table was set to the mid-point of its height adjustment.
- Unit weight: 132 lbs.

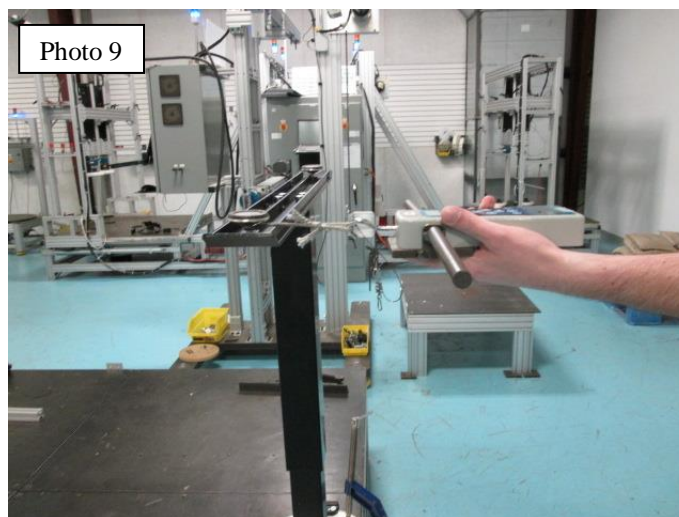
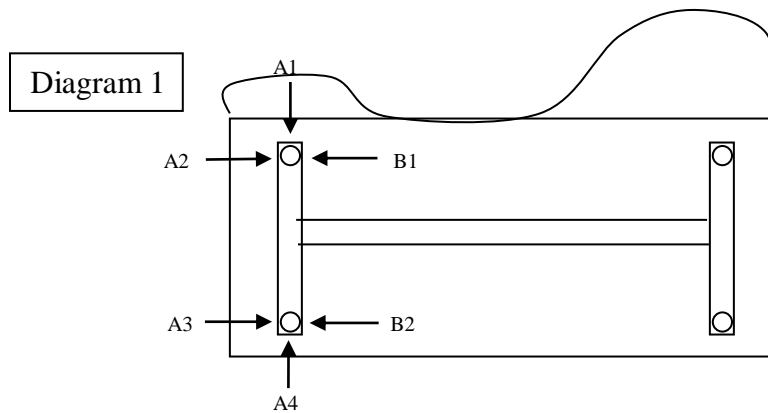
Functional A = 100 lbs

Functional B = 50 lbs

Proof A = 150 lbs

Proof B = 75 lbs

- See Photo 9 and Diagram 1 for setup and load directions.





9. Leg Strength Test (continued):

<u>Specimen</u>	<u>Force (lbs.)</u>	<u>Direction</u>	<u>Observations</u>
718514	100	A1	No loss of serviceability.
	100	A2	No loss of serviceability.
	100	A3	No loss of serviceability.
	100	A4	No loss of serviceability.
	50	B1	No loss of serviceability.
	50	B2	No loss of serviceability.
	150	A1	No sudden and major change in structural integrity.
	150	A2	No sudden and major change in structural integrity.
	150	A3	No sudden and major change in structural integrity.
	150	A4	No sudden and major change in structural integrity.
	75	B1	No sudden and major change in structural integrity.
	75	B2	No sudden and major change in structural integrity.

Requirement:

Functional Load:

No loss of serviceability shall occur as a result of the application of the functional loads. After application of the functional loads, each extendible element in the leg attached desk pedestal shall be tested to and meet the pull force requirements of Section 19.

Proof Load:

Application of the proof loads shall cause no sudden and major change in structural integrity of the product. Loss of serviceability is acceptable.

Equipment:	Force gauge (118027), Scale (117381), Tape measure (117768)
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10. Work Surface Vertical Adjustment Test

Testing was performed per ANSI/BIFMA X5.5-2014, Section 15.

- Temperature / humidity 72 - 73° F / 48 - 53 RH%.
- The specimen adjustment range was divided into four equal length quartiles:

<u>Specimen</u>	<u>Quartile 1</u>	<u>Quartile 2</u>	<u>Quartile 3</u>	<u>Quartile 4</u>
718514	23.75" – 30.25"	30.25" – 36.75"	36.75" – 43.25"	43.25" – 49.75"

- Specimen was subjected to 1,000 cycles within each quartile.
- Raising the table to the upper limit of the quartile then lowering it to the bottom limit of the quartile equals one cycle.
- A 100 lb. load was applied through a 12" disc centered 12" in from the front edge, and 12" in from the left or right edge.
- Cycle rate: .5 CPM.
- See Photo 10 for setup.





10. Work Surface Vertical Adjustment Test (continued):

<u>Specimen</u>	<u>Quartile</u>	<u>Cycles</u>	<u>Observations</u>
718514	1	0	Load placed at left position. Test begun.
		1,000	No changes observed.
	2	1,000	Test continued.
		2,000	No changes observed.
	3	2,000	Load placed at right position. Test continued.
		3,000	No changes observed.
	4	3,000	Test continued.
		4,000	No loss of serviceability.

Requirement: *There shall be no loss of serviceability to the unit. For tables with crank driven height adjustment mechanisms, the operating force on the handle shall not exceed 50 N (11 lbf.) before or after the test.*

Equipment:	Test machine (117760), Tape measure (117768), Stopwatch (126980), Digital scale (117381), Digital level (117596)
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