



Test Report
4791665311
UL Solutions
72 W 64th Street
Suite 120
Holland, MI 49423
<https://www.ul.com/industries/products-and-components/furniture>



Page 1 of 12

Requester:	National Public Seating Corp. 149 Entin Rd. Clifton, NJ 07014-1424
Contact Name:	Sherri Miller
Dates Tested:	03/07/25 – 03/18/25
Date Issued:	03/19/25
Technician:	Jason Wisniewski
UL Order / Project Number:	15684535 / 4791665311

Scope: To evaluate a Mobile Flipper Table, supplied by National Public Seating Corp., by subjecting it to the following tests:

Requested Tests:

<u>Test Name</u>	<u>Requirement</u>
Stability Under Vertical Load Test	ANSI/BIFMA X5.5-2021, Section 4.3
Horizontal Stability Test for Desk/Tables with Casters	ANSI/BIFMA X5.5-2021, Section 4.4
Force Stability Test For Tall Desk/Table Products	ANSI/BIFMA X5.5-2021, Section 4.6
Concentrated Functional Load Test	ANSI/BIFMA X5.5-2021, Section 5.2
Distributed Functional Load Test	ANSI/BIFMA X5.5-2021, Section 5.3
Concentrated Proof Load Test	ANSI/BIFMA X5.5-2021, Section 5.4
Distributed Proof Load Test	ANSI/BIFMA X5.5-2021, Section 5.5
Leg Strength Test	ANSI/BIFMA X5.5-2021, Section 8
Durability Test for Desks and Tables with Casters	ANSI/BIFMA X5.5-2021, Section 18
Tilt-Top Table – Cycle Test	ANSI/BIFMA X5.5-2021, Section 20

Product Description:

<u>Specimen</u>	<u>Description</u>	<u>Received</u>	<u>Condition</u>	<u>Supplier</u>
8182637	Mobile Flipper Table, MFT-48963	02/27/25	New	National Public Seating Corp.

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Page 2 of 12

Summary:

<u>Test Name</u>	<u>Results</u>
Stability Under Vertical Load Test	Met Requirements
Horizontal Stability Test for Desk/Tables with Casters	Met Requirements
Force Stability Test For Tall Desk/Table Products	Met Requirements
Concentrated Functional Load Test	Met Requirements
Distributed Functional Load Test	Met Requirements
Concentrated Proof Load Test	Met Requirements
Distributed Proof Load Test	Met Requirements
Leg Strength Test	Met Requirements
Durability Test for Desks and Tables with Casters	Met Requirements
Tilt-Top Table – Cycle Test	Met Requirements

Load Calculations:

<u>Specimen</u>	<u>Component</u>	<u>Calculation</u>	<u>Load (lbs.)</u>
8182637		Functional Load	
	Unit Top	(288) x 1.5	432
		Proof Load	
	Unit Top	(288) x 2.3	662



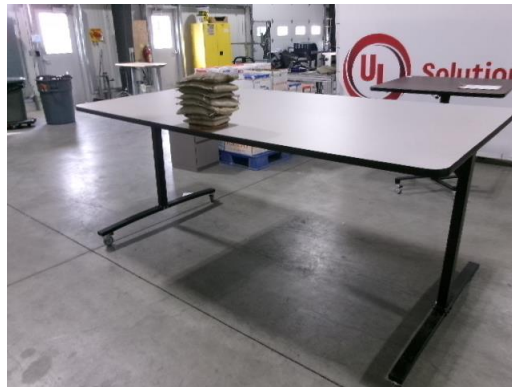
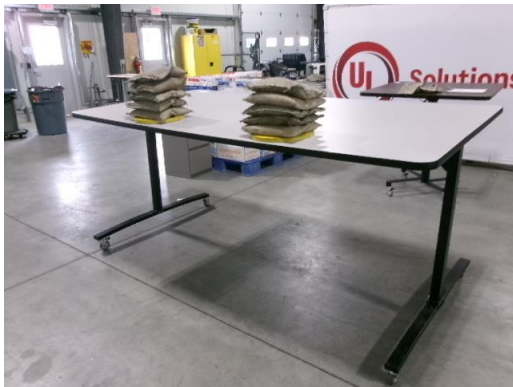
Test Results:

Stability under Vertical Load Test:

Testing was performed per ANSI/BIFMA X5.5-2021, Section 4.3.

Notes:

- 125 lb. loads were applied through 12" discs, 75 lb. loads were applied through 8" discs.
- See photos for setups.



<u>Specimen</u>	<u>Load (lbs.)</u>	<u>Load Location</u>	<u>Observations</u>
8182637	125 x 2	Front edge, 36" apart centered, 1" in.	Unit did not tip over.
	75	Front edge flush, center.	Unit did not tip over.

Requirement: The unit shall not tip over from either the 57 kg (125 lb.) load(s) or from the 34 kg (75 lb.) load.



Horizontal Stability Test for Desk/Tables with Casters:

Testing was performed per ANSI/BIFMA X5.5-2021, Section 4.4.

Notes:

- Force was applied until 10 lbs. or 10° was achieved.
- See photo for setup.



<u>Specimen</u>	<u>Load</u>	<u>Force</u>	<u>Angle (°)</u>	<u>Observations</u>
8182637	25 lbs.	10.0 lbs.	N/A	Unit did not tip over.

Requirement: *The unit shall not tip over. If an extendible element(s) 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.*

Force Stability Test for Tall Desk/Tables Products:

Testing was performed per ANSI/BIFMA X5.5-2021, Section 4.6.

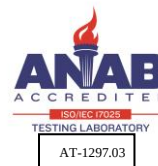
Notes:

- Force was applied until 40 lbs. or 10° was achieved.
- See photos for setup.



<u>Specimen</u>	<u>Position</u>	<u>Location</u>	<u>Force (lbs.)</u>	<u>Angle (°)</u>	<u>Observations</u>
8182637	Flat	1	40	-	Unit did not tip over.
		2	40	-	Unit did not tip over.
		3	40	-	Unit did not tip over.
		4	40	-	Unit did not tip over.
	Stowed	1	40	-	Unit did not tip over.
		2	40	-	Unit did not tip over.
		3	40	-	Unit did not tip over.
		4	40	-	Unit did not tip over.

Requirement: The unit shall not tip over. Loss of serviceability is acceptable.

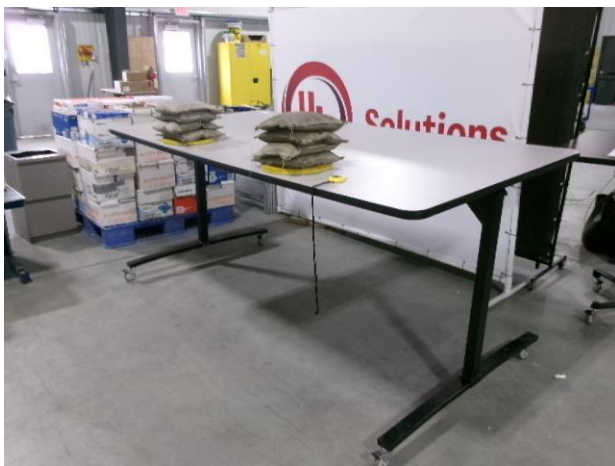


Concentrated Functional Load Test:

Testing was performed per ANSI/BIFMA X5.5-2021, Section 5.2.

Notes:

- See photo for setup.



<u>Specimen</u>	<u>Load (lbs.)</u>	<u>Time (min.)</u>	<u>Observations</u>
8182637	100 x 2	60	No loss of serviceability.

Requirement: *There shall be no loss of serviceability. Upon completion of the test, the extendible element(s) shall meet the pull force requirements of Section 19 as tested in 5.2.2.*

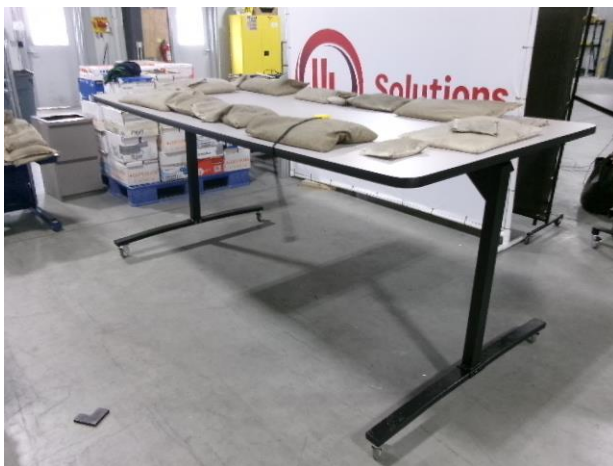


Distributed Functional Load Test:

Testing was performed per ANSI/BIFMA X5.5-2021, Section 5.3.

Notes:

- Functionally loaded as calculated on page 2.
- See photo for setup.



<u>Specimen</u>	<u>Total Load</u>	<u>Time</u>	<u>Observations</u>
8182637	432 lbs.	60 min	No loss of serviceability.

Requirement: *There shall be no loss of serviceability. Upon completion of the test, the extendible element(s) shall meet the pull force requirements of Section 19 as tested in 5.3.2.*



Concentrated Proof Load Test:

Testing was performed per ANSI/BIFMA X5.5-2021, Section 5.4.

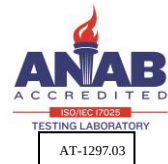
Notes:

- See photo for setup.



<u>Specimen</u>	<u>Load (lbs.)</u>	<u>Time (min.)</u>	<u>Observations</u>
8182637	200 x 2	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. Height adjustable tables do not need to maintain their setup position during the proof load test, but the unit must hold the load at some position for the 15 minutes. A slow back-driving (lowering) of the height adjustable surface is acceptable.*



Distributed Proof Load Test:

Testing was performed per ANSI/BIFMA X5.5-2021, Section 5.5.

Notes:

- Proof loaded as calculated on page 2.
- See photo for setup.



<u>Specimen</u>	<u>Total Load (lbs.)</u>	<u>Time (min.)</u>	<u>Observations</u>
8182637	662	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. Height adjustable tables do not need to maintain their setup position during the proof load test, but the unit must hold the load at some position. A slow back-driving (lowering) of the height adjustable surface is acceptable.*

Leg Strength Test:

Testing was performed per ANSI/BIFMA X5.5-2021, Section 8.

- Unit weight: 222 lbs.

Functional A = 100 lbs.

Functional B = 50 lbs.

Proof A = 150 lbs.

Proof B = 75 lbs.

- See photo for setup.



Sample	Load (lbs.)	Directions	Observations
8182637	100	A1 – A2	No loss of serviceability.
	50	B1	No loss of serviceability.
	150	A1 – A2	No sudden and major change in structural integrity.
	75	B1	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, extendible element(s) shall meet the pull force requirements of Section 19. For Tilt-top tables, release of the top latching mechanism during the test is considered a loss of serviceability.

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



Durability Test for Desks and Tables with Casters:

Testing was performed per ANSI/BIFMA X5.5-2021, Section 18.

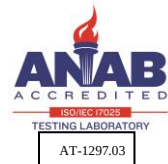
Notes:

- Based on each unit's weight (222 lbs.), specimen was to be subjected to 100 cycles over 1/8" thresholds, and 1,000 cycles over a flat surface.
- Test Rate: 9 CPM.
- See photo for setup.



<u>Specimen</u>	<u>Surface</u>	<u>Cycles</u>	<u>Observations</u>
8182637	Thresholds	0	Started test.
		100	No changes.
	Smooth	100	Resumed test.
		1,100	No loss of serviceability.

Requirement: *There shall be no loss of serviceability to a caster or the desk/table.*

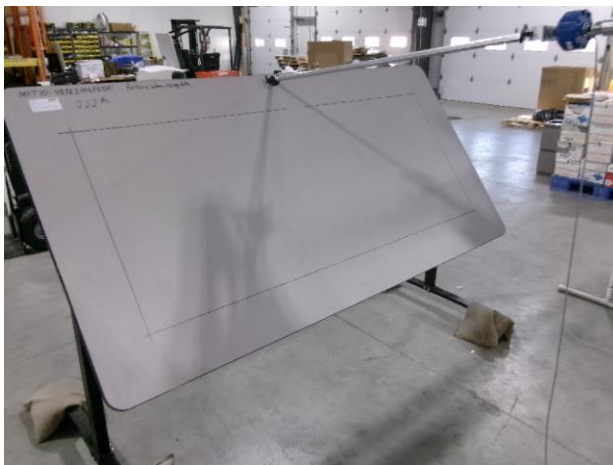


Tilt-Top Table – Cycle Test:

Testing was performed per ANSI/BIFMA X5.5-2021, Section 20.

Notes:

- Table tilt and latch motion were tested separately.
- Cycle rate: 3 CPM.
- See photo for setup



<u>Specimen</u>	<u>Segment</u>	<u>Cycles</u>	<u>Observations</u>
8182637	Table tilt	0	Started test.
		2,500	No loss of serviceability.
	Latch	0	Started test.
		2,500	No loss of serviceability.

Requirement: *There shall be no loss of serviceability and the table top shall be able to move throughout its range of motion.*