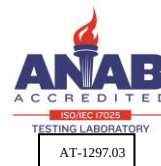




Test Report
4791664470
UL Solutions
72 West 64th Street
Suite 120
Holland, MI 49423
<https://www.ul.com/industries/products-and-components/furniture>



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Requester:	National Public Seating 149 Entin Road Clifton, NJ 07014
Contact Name:	Sherri Miller
Dates Tested:	03/27/25 – 04/02/25
Date Issued:	04/03/25
Technician:	Ron Day, Gaige Evans
UL Order / Project Number:	15683582 / 4791664470

Scope: To evaluate the Flip-N-Store Training Table, supplied by National Public Seating, by subjecting it to the following tests:

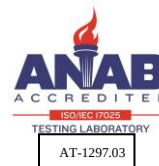
Requested Tests:

<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
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
Top Load Ease Cycle Test	ANSI/BIFMA X5.5-2021, Section 6
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
Tilting Top Table – Cycle Test	ANSI/BIFMA X5.5-2014, Section 20
Tilting Top Table - Latch Strength Test	ANSI/BIFMA X5.5-2014, Section 21

Product Description:

<u>Specimen (UL ID)</u>	<u>Description</u>	<u>Received</u>	<u>Condition</u>	<u>Supplier</u>
8291801	Flip-N-Store Training Table Model BPFT-2472	03/26/25	New	National Public Seating

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Summary:

<u>Test Name</u>	<u>Specimen</u>	<u>Results</u>
Stability Under Vertical Load Test	8291801	Met Requirements
Horizontal Stability Test for Desk/Tables with Casters	8291801	Met Requirements
Concentrated Functional Load Test	8291801	Met Requirements
Distributed Functional Load Test	8291801	Met Requirements
Concentrated Proof Load Test	8291801	Met Requirements
Distributed Proof Load Test	8291801	Met Requirements
Top Load Ease Cycle Test	8291801	Met Requirements
Leg Strength Test	8291801	Met Requirements
Durability Test for Desks and Tables with Casters	8291801	Met Requirements
Tilting Top Table – Cycle Test	8291801	Met Requirements
Tilting Top Table - Latch Strength Test	8291801	Met Requirements

Load Calculations:

<u>Specimen</u>	<u>Component</u>	<u>Calculation</u>	<u>Load (lbs.)</u>
8291801		Functional Load	
	Unit Top	(192) x 1.5	288
		Proof Load	
	Unit Top	(192) x 2.3	441

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 a 12" disc, 75 lb. load was applied through an 8" disc.
- See photos for setups.



<u>Specimen</u>	<u>Load</u>	<u>Load Location</u>	<u>Observations</u>
8291801	125	1" in from edge	Unit did not tip over.
	75	Front edge	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>
8291801	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.

Concentrated Functional Load Test:

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

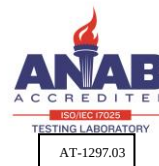
Notes:

- See photo for setup.



<u>Specimen</u>	<u>Load (lbs.)</u>	<u>Time (min.)</u>	<u>Observations</u>
8291801	200	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.

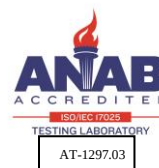
Notes:

- See photo for setup.



<u>Specimen</u>	<u>Total Load</u>	<u>Time</u>	<u>Observations</u>
8291801	288 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>
8291801	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. 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:

- See photo for setup.



<u>Specimen</u>	<u>Total Load (lbs.)</u>	<u>Time (min.)</u>	<u>Observations</u>
8291801	441	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.*

Top Load Ease Cycle Test:

Testing was performed per ANSI/BIFMA X5.5-2021, Section 6.

Notes:

- Test Rate: 17 CPM.
- See photo for setup.



<u>Specimen</u>	<u>Cycles</u>	<u>Observations</u>
8291801	0	Test begun.
	10,000	No loss of serviceability.

Requirement: *There shall be no loss of serviceability to the unit. Before and after the cycling test, the extendible elements shall meet the pull force requirements of Section 19. A gradual loss of height for height adjustable products during cycling is not considered a loss of serviceability.*

Leg Strength Test:

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

Specimen 8291801 Notes:

- Unit weight: 54 lbs.

Functional A = 77 lbs.

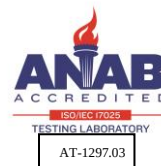
Functional B = 38 lbs.

Proof A = 115 lbs.

Proof B = 58 lbs.

- See photo for setup.





Leg Strength Test (continued):

<u>Sample</u>	<u>Load (lbs.)</u>	<u>Directions</u>	<u>Observations</u>
8291801	77	A1 – A4	No loss of serviceability.
	38	B1 – B2	No loss of serviceability.
	115	A1 – A4	No sudden and major change in structural integrity.
	58	B1 – 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, 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 the unit's weight, specimens were to be subjected to 2,500 cycles over 1/8" thresholds, and 0 cycles over a flat surface.
- Test Rate: 10 CPM.
- See photo for setup.



<u>Specimen</u>	<u>Cycles</u>	<u>Surface</u>	<u>Observations</u>
8291801	0	Thresholds	Begin test.
	2,500		No loss of serviceability.

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

Tilting Top Table – Cycle Test - Modified:

Testing was performed per ANSI/BIFMA X5.5-2014, Section 20.

Notes:

- Test rate: 8 CPM.
- See photos for setups.



<u>Specimen</u>	<u>Segment</u>	<u>Cycles</u>	<u>Observations</u>
8291801	Latch	0	Test begun.
		2,500	No loss of serviceability.
	Tilt	0	Test begun.
		2,500	No loss of serviceability.

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

Tilting Top Table – Latch Strength Test (Modified):

Testing was performed per ANSI/BIFMA X5.5-2014, Section 21.

Notes:

- See photo for setup.



<u>Specimen</u>	<u>Segment</u>	<u>Force (lbs.)</u>	<u>Observations</u>
8291801	Stowed	30	No loss of serviceability.
	In Use	50	No loss of serviceability.

Requirement: *The lock/latch shall retain the top in its test position throughout the application of the test force(s). There shall be no loss of serviceability to the unit.*