

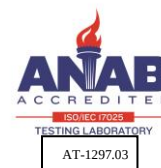
Requester:	National Public Seating Corp. 149 Entin Rd. Clifton, NJ 07014
Contact Name:	Sherri Miller
Dates Tested:	06/07/24 – 06/18/24
Date Issued:	06/20/24
Technician:	Ron Day, Jason Wisniewski
UL Order / Project Number:	15335357 / 4791346096

Scope: To evaluate Various Table Units, 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
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
Desk/Table Unit Drop Test	ANSI/BIFMA X5.5-2021, Section 7
Leg Strength Test	ANSI/BIFMA X5.5-2021, Section 8
Static Weight Testing	Information only.

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Product Description:

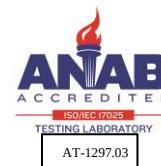
<u>Specimen</u>	<u>Description</u>	<u>Received</u>	<u>Condition</u>	<u>Supplier</u>
7274826	3060 Fold In Half Rectangular CMFIH3060	06/03/24	New	National Public Seating
7274827	3072 Fold In Half Rectangular CMFIH3072	06/03/24	New	National Public Seating
7274828	3096 Fold In Half Rectangular CMFIH3096	06/03/24	New	National Public Seating
7274834	60R Fold In Half Round Table CMFIH60R	06/03/24	New	National Public Seating
7274832	Fold In Half Table Adjustable Height BFHT2448A	06/03/24	New	National Public Seating

Summary:

<u>Test Name</u>	<u>Specimen</u>	<u>Results</u>
Stability Under Vertical Load Test	7274826	Met the requirement
	7274828	Met the requirement
	7274832	Met the requirement
	7274834	Met the requirement
Concentrated Functional Load Test	7274828	Met the requirement
	7274832	Met the requirement
	7274834	Met the requirement
Distributed Functional Load Test	7274828	Met the requirement
	7274832	Met the requirement
	7274834	Met the requirement
Concentrated Proof Load Test	7274828	Met the requirement
	7274832	Met the requirement
	7274834	Met the requirement
Distributed Proof Load Test	7274828	Met the requirement
	7274832	Met the requirement
	7274834	Met the requirement



Test Report
4791346096v3.0
UL Solutions
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Holland, MI 49424
<https://www.ul.com/industries/products-and-components/furniture>
847-664-6502



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Summary (continued):

<u>Test Name</u>	<u>Specimen</u>	<u>Results</u>
Top Load Ease Cycle Test	7274828	Met the requirement
	7274832	Met the requirement
	7274834	Met the requirement
Desk/Table Unit Drop Test	7274826	Met the requirement
	7274828	Met the requirement
	7274832	Met the requirement
	7274834	Met the requirement
Leg Strength Test	7274826	Met the requirement
	7274827	Met the requirement
	7274828	Met the requirement
	7274832	Met the requirement
	7274834	Met the requirement
Static Weight Testing	7274826	No changes observed
	7274827	No changes observed
	7274828	No changes observed
	7274834	No changes observed



Load Calculations:

<u>Specimen</u>	<u>Component</u>	<u>Calculation</u>	<u>Load (lbs.)</u>
7274828		Functional Load	
	Unit Top	(252) x 1.5	378
		Proof Load	
	Unit Top	(252) x 2.3	580
7274832		Functional Load	
	Unit Top	(144) x 1.5	216
		Proof Load	
	Unit Top	(144) x 2.3	331
7274834		Functional Load	
	Unit Top	(189) x 1.5	284
		Proof Load	
	Unit Top	(189) x 2.3	435



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.



Stability under Vertical Load Test (continued):



<u>Specimen</u>	<u>Load (lbs.)</u>	<u>Load Location</u>	<u>Observations</u>
7274826	125	Front edge 1" in.	Unit did not tip over.
	75	Front edge flush.	Unit did not tip over.
7274828	125 x 2	Front edge 1" in.	Unit did not tip over.
	75	Front edge flush.	Unit did not tip over.
7274832	125	Front edge 1" in.	Unit did not tip over.
	75	Front edge flush.	Unit did not tip over.
7274824	125	Front edge 1" in.	Unit did not tip over.
	75	Front edge flush.	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.



Concentrated Functional Load Test:

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

Notes:

- See photos for setups.



<u>Specimen</u>	<u>Load (lbs.)</u>	<u>Time (min.)</u>	<u>Observations</u>
7274828	200 x 2	60	No loss of serviceability.
7274832	200	60	No loss of serviceability.
7274834	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 load calculations on page 4.
- See photos for setups.



<u>Specimen</u>	<u>Total Load (lbs.)</u>	<u>Time (min.)</u>	<u>Observations</u>
7274828	378	60	No loss of serviceability.
7274832	216	60	No loss of serviceability.
7274834	284	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 5.3.2.*



Concentrated Proof Load Test:

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

Notes:

- See photos for setups.



<u>Specimen</u>	<u>Load (lbs.)</u>	<u>Time (min.)</u>	<u>Observations</u>
7274828	300 x 2	15	No sudden and major change in structural integrity.
7274832	300	15	No sudden and major change in structural integrity.
7274834	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 same 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 load calculations on page 4.
- See photo for setup.



<u>Specimen</u>	<u>Load (lbs.)</u>	<u>Time (min.)</u>	<u>Observations</u>
7274828	580	15	No sudden and major change in structural integrity.
7274832	331	15	No sudden and major change in structural integrity.
7274834	435	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 same 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: 15 - 19 CPM.
- See photos for setups.



<u>Specimen</u>	<u>Cycles</u>	<u>Observations</u>
7274828	10,000	No loss of serviceability.
7274832	10,000	No loss of serviceability.
7274834	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.*



Desk/Table Unit Drop Test:

Testing was performed per ANSI/BIFMA X5.5-2021, Section 7.

Notes:

- Drop height was determined by weight of each unit.
- See photos for setups.



<u>Specimen</u>	<u>Unit weight</u>	<u>Drop Height</u>	<u>End Raised</u>	<u>Observations</u>
7274826	29 lbs.	7.1"	Left and Right	No loss of serviceability.
7274828	39 lbs.	7.1"	Left and Right	No loss of serviceability.
7274832	25 lbs.	7.1"	Left and Right	No loss of serviceability.
7274834	49 lbs.	7.1"	Left and Right	No loss of serviceability.

Requirement: *There shall be no loss of serviceability. The extendible elements shall meet the pull force test requirements in Section 19.*



Leg Strength Test:

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

Notes:

- Loads were based on weight of each table.

Sample 7274826 weight: 29 lbs.

Fun A: $(0.5 \times 29) + 50 = 65$ lbs.

Fun B: $0.5 \times 65 = 32$ lbs.

Proof A: $1.5 \times \text{Fun A (65)} = 97$ lbs.

Proof B: $1.5 \times \text{Fun B (32)} = 48$ lbs.

Sample 7274827 weight: 32 lbs.

Fun A: $(0.5 \times 32) + 50 = 66$ lbs.

Fun B: $0.5 \times 66 = 33$ lbs.

Proof A: $1.5 \times \text{Fun A (66)} = 99$ lbs.

Proof B: $1.5 \times \text{Fun B (33)} = 50$ lbs.

Sample 7274828 weight: 38.5 lbs.

Fun A: $(0.5 \times 38.5) + 50 = 69$ lbs.

Fun B: $0.5 \times 69 = 35$ lbs.

Proof A: $1.5 \times \text{Fun A (69)} = 104$ lbs.

Proof B: $1.5 \times \text{Fun B (35)} = 52$ lbs.

Sample 7274832 weight: 25 lbs.

Fun A: $(0.5 \times 25) + 50 = 63$ lbs.

Fun B: $0.5 \times 63 = 31$ lbs.

Proof A: $1.5 \times \text{Fun A (63)} = 94$ lbs.

Proof B: $1.5 \times \text{Fun B (31)} = 47$ lbs.

Sample 7274834 weight: 49 lbs.

Fun A: $(0.5 \times 49) + 50 = 75$ lbs.

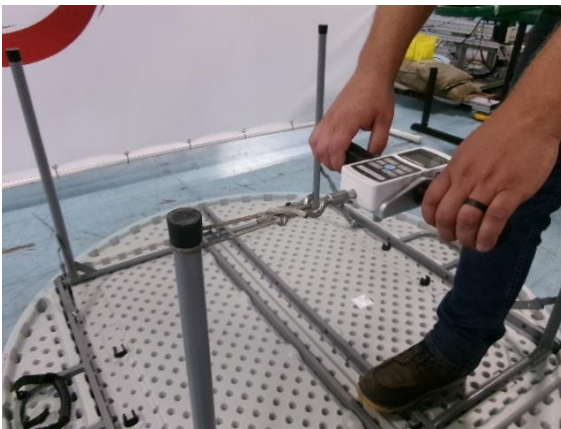
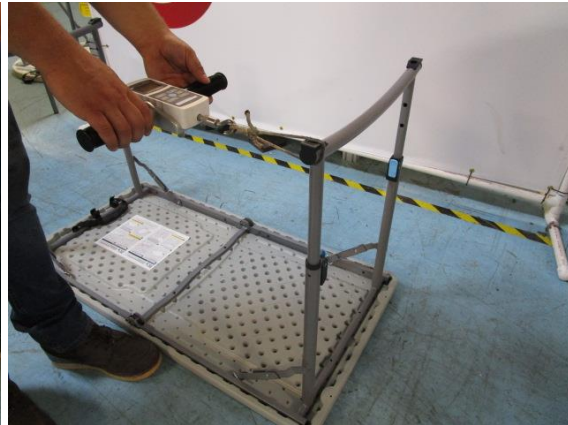
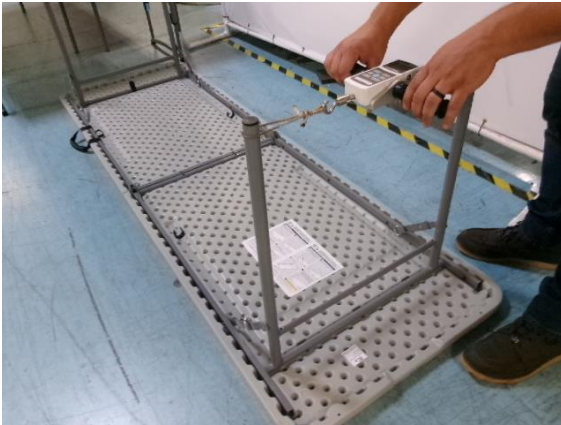
Fun B: $0.5 \times 75 = 38$ lbs.

Proof A: $1.5 \times \text{Fun A (75)} = 112$ lbs.

Proof B: $1.5 \times \text{Fun B (38)} = 57$ lbs.

Leg Strength Test (continued):

- See photos for setups.





Leg Strength Test (continued):

<u>Sample</u>	<u>Load (lbs.)</u>	<u>Directions</u>	<u>Observations</u>
7274826	65	A1 – A2	No loss of serviceability.
	32	B1 – B2	No loss of serviceability.
	97	A1 – A2	No sudden and major change in structural integrity.
	48	B1 – B2	No sudden and major change in structural integrity.
7274827	66	A1 – A2	No loss of serviceability.
	33	B1 – B2	No loss of serviceability.
	99	A1 – A2	No sudden and major change in structural integrity.
	50	B1 – B2	No sudden and major change in structural integrity.
7274828	69	A1 – A2	No loss of serviceability.
	335	B1 – B2	No loss of serviceability.
	194	A1 – A2	No sudden and major change in structural integrity.
	52	B1 – B2	No sudden and major change in structural integrity.
7274832	63	A1 – A2	No loss of serviceability.
	31	B1 – B2	No loss of serviceability.
	94	A1 – A2	No sudden and major change in structural integrity.
	47	B1 – B2	No sudden and major change in structural integrity.
7274834	75	A1 – A2	No loss of serviceability.
	38	B1 – B2	No loss of serviceability.
	112	A1 – A2	No sudden and major change in structural integrity.
	57	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.*

Static Weight Test:

Testing was performed per the requester's instructions.

Notes:

- Units were loaded with 500 lbs. for an hour, 600 lbs. for an hour, and then 700 lbs. for 24 hours.
- Load was evenly distributed over the work surface.
- See photos for setups.





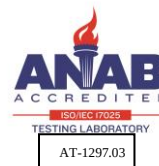
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Static Weight Test (continued):





Static Weight Test (continued):

<u>Specimen</u>	<u>Load (lbs.)</u>	<u>Time (Hr.)</u>	<u>Observations</u>
7274826	500	1	No changes observed.
	600	1	No changes observed.
	700	24	No changes observed.
7274827	500	1	No changes observed.
	600	1	No changes observed.
	700	24	No changes observed.
7274828	500	1	No changes observed.
	600	1	No changes observed.
	700	24	No changes observed.
7274834	500	1	No changes observed.
	600	1	No changes observed.
	700	24	No changes observed.

Requirement: Testing was performed for informational purposes only.

Revision History

<u>Version</u>	<u>Rev. Date</u>	<u>Change Control Comments</u>	<u>Approver</u>
1	06/20/24	Created document	Ron Day
2	06/20/24	Corrected model numbers in the product description and removed the picnic table from all associated areas to a separate report.	Jason Wisniewski
3	06/21/24	Corrected model numbers in the product description.	Jason Wisniewski