



Requester:	National Public Seating Corp 149 Entin Rd Clifton, NJ, 07014-1424 US
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Dates Tested:	02/06/24 – 02/15/24
Date Issued:	02/20/24
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UL Order / Project Number:	15147477 / 4791171259

Scope: To evaluate the Heavy-Duty Designer Table Series, 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

Product Description:

<u>Specimen</u>	<u>Description</u>	<u>Received</u>	<u>Condition</u>	<u>Supplier</u>
6846627	Heavy-Duty Designer Table	01/31/24	New	National Public Seating Corp
6929308	Heavy-Duty Activity Table with upgraded 25mm screws	02/15/24	New	National Public Seating Corp

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Summary:

<u>Test Name</u>	<u>Specimen(s)</u>	<u>Results</u>
Stability Under Vertical Load Test	6846627	Met Requirements
Concentrated Functional Load Test	6846627	Met Requirements
Distributed Functional Load Test	6846627	Met Requirements
Concentrated Proof Load Test	6846627	Met Requirements
Distributed Proof Load Test	6846627	Met Requirements
Top Load Ease Cycle Test	6846627	Met Requirements
Desk Table Unit Drop Test	6846627	Met Requirements
Leg Strength Test	6929308	Met Requirements

Load Calculations:

<u>Specimen</u>	<u>Component</u>	<u>Calculation</u>	<u>Load (lbs.)</u>
6846627		Functional Load	
	Unit Top	$(288) \times 1.5$	432
		Proof Load	
	Unit Top	$(288) \times 2.3$	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. load was applied through an 8" disc.
- See photos for setups.



<u>Specimen</u>	<u>Load (lbs.)</u>	<u>Load Location</u>	<u>Observations</u>
6846627	125 (x2)	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 photo for setup.



<u>Specimen</u>	<u>Load (lbs.)</u>	<u>Time (min.)</u>	<u>Observations</u>
6846627	200 (x2)	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:

- The unit top was loaded with the functional load as calculated on page 2.
- See photo for setup.



<u>Specimen</u>	<u>Total Load</u>	<u>Time</u>	<u>Observations</u>
6846627	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>
6846627	300 (x2)	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:

- The unit top was loaded with the functional load as calculated on page 2.
- See photo for setup.



<u>Specimen</u>	<u>Total Load (lbs.)</u>	<u>Time (min.)</u>	<u>Observations</u>
6846627	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.*

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>
6846627	0	Started test.
	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 the unit.
- See photo for setup.



<u>Specimen</u>	<u>Unit weight</u>	<u>Drop Height</u>	<u>End Raised</u>	<u>Observations</u>
6846627	174 lbs.	4.7"	Left	No loss of serviceability.
			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.

- Unit weight: 174 lbs.

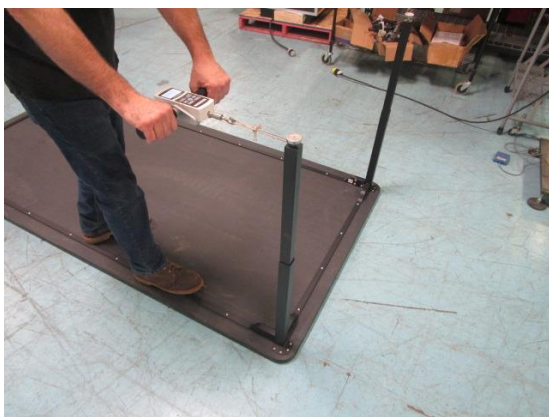
Functional A = 100 lbs.

Functional B = 50 lbs.

Proof A = 150 lbs.

Proof B = 75 lbs.

- See photo for setup.



<u>Sample</u>	<u>Load (lbs.)</u>	<u>Directions</u>	<u>Observations</u>
6929308	100	A1 – A2	No loss of serviceability.
	50	B1 – B2	No loss of serviceability.
	150	A1 – A2	No sudden and major change in structural integrity.
	75	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.*