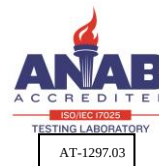




Test Report
4791546562
UL Solutions
72 West 64th Street
Suite 120
Holland, MI 49423
<https://www.ul.com/industries/products-and-components/furniture>



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Requester:	National Public Seating Corp. 149 Entin Road Clifton, NJ 07014
Contact Name:	Sherri Miller
Dates Tested:	11/06/24 – 11/19/24
Date Submitted:	11/21/24
Technician:	Ron Day
UL Order / Project Number:	15554144 / 4791546562

Scope: To evaluate the Model 6224-WU Stool, supplied by National Public Seating Corp., by subjecting it to the following tests:

Requested Tests:

<u>Test Name</u>	<u>Requirement</u>
Drop Test - Dynamic	ANSI/BIFMA X5.1-2017(R2022), Section 7
Seating Durability Tests – Cyclic	ANSI/BIFMA X5.1-2017(R2022), Section 10
Stability Tests	ANSI/BIFMA X5.1-2017(R2022), Section 11
Leg Strength Test – Front and Side Application	ANSI/BIFMA X5.1-2017(R2022), Section 17
Footrest Static Load Test - Vertical	ANSI/BIFMA X5.1-2017(R2022), Section 18
Footrest Durability Test – Vertical – Cyclic	ANSI/BIFMA X5.1-2017(R2022), Section 19

Product Description:

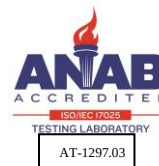
<u>Specimen (UL ID)</u>	<u>Description</u>	<u>Received</u>	<u>Condition</u>	<u>Supplier</u>
7776758	Model 6224-WU Stool	11/06/24	New	National Public Seating Corp.

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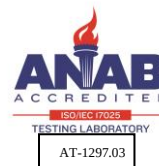
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Summary:

<u>Test Name</u>	<u>Specimen</u>	<u>Results</u>
Drop Test - Dynamic	7776758	Met Requirement
Seating Durability Tests – Cyclic	7776758	Met Requirement
Stability Tests	7776758	Met Requirement
Leg Strength Test – Front and Side Application	7776758	Met Requirement
Footrest Static Load Test - Vertical	7776758	Met Requirement
Footrest Durability Test – Vertical – Cyclic	7776758	Met Requirement



Test Results:

Drop Test – Dynamic:

Testing was performed per ANSI/BIFMA X5.1-2017(R2022), Section 7.

Notes:

- Functional load: 225 lbs.
- Proof load: 300 lbs.
- See photo for setup.



<u>Specimen</u>	<u>Chair Height</u>	<u>Load (lbs.)</u>	<u>Observations</u>
7776758	Fixed	225	No loss of serviceability.
	Fixed	300	No sudden and major change in structural integrity.

Requirement:

Functional Load: There shall be no loss of serviceability.

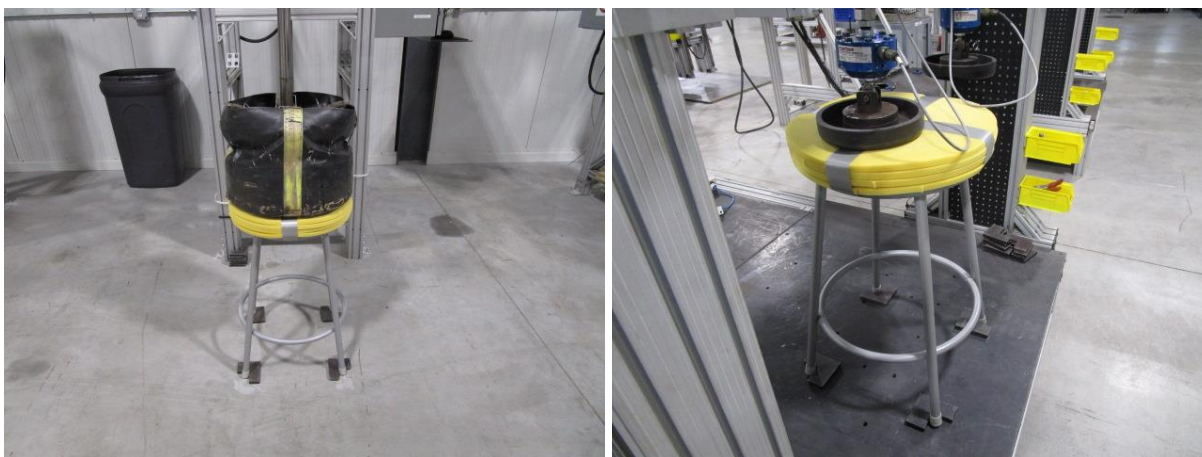
Proof Load: There shall be no sudden and major change in the structural integrity of the chair.
Loss of serviceability is acceptable.

Seating Durability Tests – Cyclic:

Testing was performed per ANSI/BIFMA X5.1-2017(R2022), Section 10.

Notes:

- Impact test rate: 17 CPM.
- Load Ease test rate: 19 CPM.
- See photos for Drop Impact setup and Load Ease setups.



<u>Specimen</u>	<u>Segment</u>	<u>Cycles</u>	<u>Observations</u>
7776758	Impact	0	Test begun.
		100,000	No loss of serviceability.
	Load Ease	0	Test begun – Side 1.
		20,000	No changes.
		20,000	Test resumed – Side 2.
		40,000	No loss of serviceability.

Requirement: *There shall be no loss of serviceability to the chair after completion of both the impact and load-ease tests. If applicable, the chair base (center structure) shall not touch the test platform as a result of the impact loads.*

Stability Tests:

Testing was performed per ANSI/BIFMA X5.1-2017(R2022), Section 11.

Notes:

- See photo for setup.



Rear Stability:

<u>Specimen</u>	<u>Observations</u>
7776758	Type II – N/A
	Type I & II – N/A

Front Stability:

<u>Specimen</u>	<u>Force to Tip</u>
7776758	Unit tipped at 14.4 lbs. Unit passed 4.5 lb. minimum.

Requirement:

Rear Stability: The chair shall not tip over.

Front Stability: The chair shall not tip over as the result of the force application.

Leg Strength Test – Front and Side Application:

Testing was performed per ANSI/BIFMA X5.1-2017(R2022), Section 17.

- See photo for setup.



<u>Specimen</u>	<u>Load (lbf)</u>	<u>Time (sec.)</u>	<u>Application</u>	<u>Observations</u>
7776758 / RF	75	60	Front	No loss of serviceability.
7776758 / LF	75	60	Front	No loss of serviceability.
7776758 / LF	75	60	Side	No loss of serviceability.
7776758 / LR	75	60	Side	No loss of serviceability.
7776758 / LR	113	60	Front	No sudden and major change in structural integrity.
7776758 / LF	113	60	Front	No sudden and major change in structural integrity.
7776758 / LF	113	60	Side	No sudden and major change in structural integrity.
7776758 / RF	113	60	Side	No sudden and major change in structural integrity.

Requirement:

Functional Load: Functional load(s) shall cause no loss of serviceability.

Proof Load: Proof load(s) shall cause no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable.

Footrest Static Load Test – Vertical:

Testing was performed per ANSI/BIFMA X5.1-2017 (R2022), Section 18.

Notes:

- A F1 100 lb. force is uniformly applied along a 4 inch distance of the footrest at the apparent weakest point and held for one (1) minute in the vertical downward direction.
- Increase the F1 force to 200 lbs. for one (1) minute.
- Increase the F1 force to 300 lbs. for one (1) minute.
- See photo for setup.



<u>Specimen</u>	<u>Force (lbs.)</u>	<u>Time (sec.)</u>	<u>Observations</u>
7776758	100	60	No loss of serviceability or sudden loss of footrest height.
	200	60	No loss of serviceability or sudden loss of footrest height.
	300	60	No sudden and major change in structural integrity.

Requirement:

Functional Load: *There shall be no loss of serviceability or sudden loss of footrest height.*

Proof Load: *The load applied once shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.*

Footrest Durability Test – Vertical – Cyclic:

Testing was performed per ANSI/BIFMA X5.1-2017 (R2022), Section 19.

Notes:

- Test rate: 18 CPM.
- See photo for setup.



<u>Specimen</u>	<u>Cycles</u>	<u>Observations</u>
7776758	0	Begin test.
	50,000	No loss of serviceability.

Requirement: *There shall be no loss of serviceability. Adjustable footrests that move more than 25 mm (1 in.) in the first 500 cycles shall be considered to have lost their serviceability.*