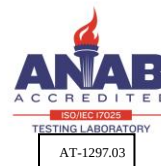




Test Report
4791664413.4v2.0
UL Solutions
3480 Windquest Dr.
Holland, MI 49424
<https://www.ul.com/industries/products-and-components/furniture>
847-664-6502



Page 1 of 9

Requester:	National Public Seating Corp. 149 Entin Road Clifton, NJ 07014
Contact Name:	Sherri Miller
Dates Tested:	02/05/25 – 02/13/25
Date Submitted:	02/18/25
Technician:	Jason Wisniewski
UL Order / Project Number:	15683519 / 4791664413

Scope: To evaluate an All Steel Folding Chair, supplied by National Public Seating Corp., by subjecting them to the following tests:

Requested Tests:

<u>Test Name</u>	<u>Requirement</u>
Backrest Strength Test – Horizontal – Static	ANSI/BIFMA X6.4-2021, Section 5
Backrest Durability Test – Horizontal – Cyclic	ANSI/BIFMA X6.4-2021, Section 7
Drop Test - Dynamic	ANSI/BIFMA X6.4-2021, Section 15
Leg Strength Test – Front and Side	ANSI/BIFMA X6.4-2021, Section 16
Unit Drop Test – Dynamic	ANSI/BIFMA X6.4-2021, Section 17
Stability	ANSI/BIFMA X6.4-2021, Section 21
Structural Durability Test – Side To Side – Cyclic	ANSI/BIFMA X6.4-2021, Section 24

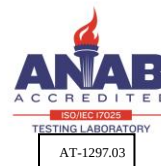
Product Description:

<u>Specimen</u>	<u>Description</u>	<u>Received</u>	<u>Condition</u>	<u>Supplier</u>
8100392 - 8100395	50 Series All Steel Folding Chair	02/04/25	New	National Public Seating Corp.

This report shall not be reproduced, except in full, without written permission from UL. Results contained within this report only apply to the actual product tested under the testing conditions documented in this report.



Test Report
4791664413.4v2.0
UL Solutions
3480 Windquest Dr.
Holland, MI 49424
<https://www.ul.com/industries/products-and-components/furniture>
847-664-6502



Page 2 of 9

Summary:

<u>Test Name</u>	<u>Specimen</u>	<u>Results</u>
Backrest Strength Test – Horizontal – Static	8100394	Met the requirements
Backrest Durability Test – Horizontal – Cyclic	8100393	Met the requirements
Drop Test – Dynamic	8100393	Met the requirements
Leg Strength Test – Front and Side	8100394	Met the requirements
Unit Drop Test – Dynamic	8100394	Met the requirements
Stability	8100395	Met the requirements
Structural Durability Test – Side To Side – Cyclic	8100395	Met the requirements

Test Results:

Backrest Strength Test – Horizontal – Static:

Testing was performed per ANSI/BIFMA X6.4-2021, Section 5.

Notes:

- Functional load: 150 lbs. for 1 minute.
- Proof load: 250 lbs. for 10 seconds
- See photo for setup.



<u>Specimen</u>	<u>Load (lbs.)</u>	<u>Time (sec.)</u>	<u>Observations</u>
8100394	150	60	No loss of serviceability.
	250	10	No sudden and major change in structural integrity.

Requirement:

Functional Load: There shall be no loss of serviceability to the chair.

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

Backrest Durability Test – Horizontal – Cyclic:

Testing was performed per ANSI/BIFMA X6.4-2021, Section 7.

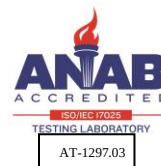
Notes:

- Test rate: 27 CPM.
- See photo for setup.



<u>Specimen</u>	<u>Cycles</u>	<u>Observations</u>
8100393	60,000	No loss of serviceability.

Requirement: *There shall be no loss of serviceability.*



Drop Test - Dynamic:

Testing was performed per ANSI/BIFMA X6.4-2021, Section 15.

Notes:

- See photo for setup.



<u>Specimen</u>	<u>Height</u>	<u>Load (lbf.)</u>	<u>Observations</u>
8100393	Fixed	225	No loss of serviceability.
		300	No sudden and major changes.

Requirement:

Functional Load: *There shall be no loss of serviceability.*

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

Leg Strength Test – Front and Side:

Testing was performed per ANSI/BIFMA X6.4-2021, Section 16.

- Front direction not applicable due to folding ability.
- See photo for setup.



Specimen	Leg	Load (lbf.)	Time (sec.)	Application	Observations
8100394	RH Front	75	60	Side	No loss of serviceability.
	RH Rear	75	60	Side	No loss of serviceability.
	RH Front	113	10	Side	No sudden and major changes.
	RH Rear	113	10	Side	No sudden and major changes.

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.

Unit Drop Test – Dynamic:

Testing was performed per ANSI/BIFMA X6.4-2021, Section 17.

Notes:

- Drop height based on weight. Unit is under 100 lbs.: 7.1" drop.
- See photo for setup.



<u>Specimen</u>	<u>Drop Height (")</u>	<u>Side</u>	<u>Observations</u>
8100394	7.1	LH	No loss of serviceability.
	7.1	RH	No loss of serviceability.

Requirement:

Functional Load: *There shall be no loss of serviceability.*

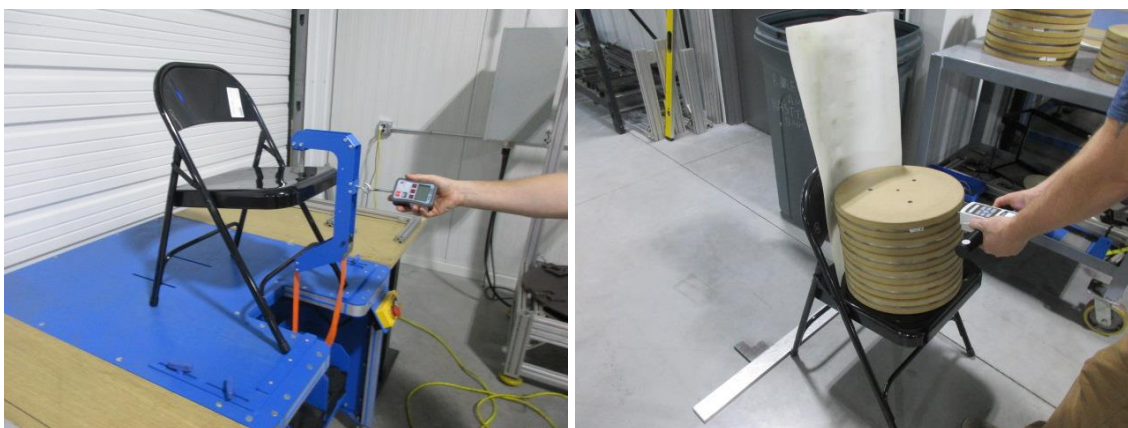
Proof Load: *There shall be no sudden and major change in the structural integrity of the chair.
Loss of serviceability is acceptable.*

Stability Tests:

Testing was performed per ANSI/BIFMA X6.4-2021, Section 21.

Notes:

- Rear calculations.
8100395, Seat height: 17.75" $(47-17.75)1.1 = 32.2$
- See photos for setups.

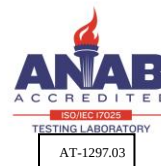


<u>Specimen</u>	<u>Test</u>	<u>Observations</u>
8100395	Rear	Type III – Unit tipped at 50.2 lbs. Unit passed 32.2 lb. minimum.
	Front	Unit tipped at 30.2 lbs. Unit passed 4.5 lb. minimum.

Requirement:

Rear Stability: The chair shall not tip over.

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



Structural Durability Test – Side to Side- Cyclic:

Testing was performed per ANSI/BIFMA X6.4-2021, Section 24.

Notes:

- Test rate: 16 CPM.
- See photo for setup.



<u>Specimen</u>	<u>Cycles</u>	<u>Observations</u>
8100395	12,500	No loss of serviceability.

Requirement: *There shall be no loss of serviceability.*

Revision History

<u>Version</u>	<u>Rev. Date</u>	<u>Change Control Comments</u>	<u>Approver</u>
1	02/14/25	Created document	Ron Day
2	02/18/25	Changed scope and corrected product description.	Jason Wisniewski

Written by Jason Wisniewski – Lab Supervisor – Holland, MI
Reviewed by Ron Day – Senior Laboratory Technician – Holland, MI
Approved by Ron Day – Senior Laboratory Technician – Holland, MI

Version 2.0