

TEST REPORT

Performance Testing Services

PTS Test Report: 7547

Page 1 of 4

Revision: Release

Test Report Date: 01/17/25

Sample Receipt Date: 12/12/24

Sample Receipt Cond.: Normal

Test Start Date: 12/12/24

Test Completion Date: 01/17/25

Customer: MedViron
9380 Pentatech Drive
Zeeland, MI 49464

1.0 Scope

To test the MedViron Folding Chair to the applicable ANSI/BIFMA X5.4-2020 Test Sections and to ANSI/BIFMA X5.41-2021-400/600 Test Section 15.

2.0 Product Description

Sample ID	Description	Qty
7547-1 7547-2 7547-3	MedViron Folding Chair.	3
7547-4	MedViron Folding Chair with heavy duty pivot guides.	1



3.0 Summary

-Sample 7547-1, 7547-2 and 7547-3 combined met the requirements for ANSI/BIFMA X5.4-2020 Test Sections 5, 7, 14, 16, 17, 21.3, 21.5 and 24.

-Sample 7547-4 met the requirements for ANSI/BIFMA X5.4-2020 Test Section 15.

-Sample 7547-4 met the requirements for ANSI/BIFMA X5.41-2021-400/600 Test Section 15.

4. Test Results

Sample ID	ANSI/BIFMA X5.4-2020 Test Description & Acceptance Criteria	Met Criteria ?	Comments/Notes
7547-3	<p>Section 5 Backrest Strength Test – Horizontal - Static</p> <p><u>Functional Load</u> A functional load applied once shall cause no loss of serviceability to the unit.</p> <p><u>Proof Load</u> A proof load applied once shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.</p>	Yes	<p>The sample met the requirements without any issues observed.</p> <p><u>Requirement</u> -Functional Load = 150 lbf for 1 minute. -Proof Load = 250 lbf for 10 seconds.</p> <p>-One (1) backrest position loaded/tested. -Backrest width = 17.75”.</p>

TEST REPORT

Performance Testing Services

PTS Test Report: 7547

Page 2 of 4

4. Test Results continued

Sample ID	ANSI/BIFMA X5.4-2020 Test Description & Acceptance Criteria	Met Criteria ?	Comments/Notes
7547-1	<p>Section 7 Backrest Durability Test – Horizontal – Cyclic</p> <p><i>There shall be no loss of serviceability.</i></p>	Yes	<p>75 lbf horizontal backrest loads applied for 120,000 cycles without any issues observed.</p> <p><u>Requirements</u> 240 lb. seat load, 75 lbf backrest load for 120,000 cycles.</p> <p>-One (1) backrest position loaded/tested. -Backrest width = 17.75”.</p>
7547-2	<p>Section 14 Seating Durability Tests – Cyclic</p> <p><i>There shall be no loss of serviceability to the unit.</i></p>	Yes	<p>The sample met the requirements after 100,000 cycles without any issues observed.</p> <p><u>Requirements</u> -100,000 cycles @ 1.4” drop heights using 125 lbs.</p> <p>-Single seating position tested. -Seat Width = 15.5”.</p>
7547-4	<p>Section 15 Drop Test – Dynamic</p> <p><u>Functional Load</u> <i>A functional load shall cause no loss of serviceability.</i></p> <p><u>Proof Load</u> <i>A proof load shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.</i></p>	Yes	<p>Functional & Proof Loads applied without any issues observed.</p> <p><u>Requirements</u> -Functional Load = 225 lbs. – 6” drop height. -Proof Load = 300 lbs. – 6” drop height.</p> <p>-Single seating position tested. -Seat Width = 15.5”.</p>
7547-3	<p>Section 16.3 and 16.4 Leg Strength Test – Front & Side</p> <p><u>Functional Load</u> <i>Functional load(s) applied once in each direction shall cause no loss of serviceability to the unit.</i></p> <p><u>Proof Load</u> <i>Proof load(s) applied once in each direction shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.</i></p>	Yes	<p>The sample met the requirements for the Functional and Proof loads.</p> <p><u>Requirements</u> - Functional Load = 75 lbf applied for 1 minute each - front & side legs. - Proof Load = 113 lbf applied for 10 seconds each - front & side legs.</p> <p>-Unit Weight = 15.4 lbs.</p>
7547-3	<p>Section 17 Unit Drop Test – Dynamic</p> <p><i>There shall be no loss of serviceability.</i></p>	Yes	<p>Met the requirements for the required drop heights on each end without any issues observed.</p> <p>-Unit weight = 15.4 lbs. = 7.1” drop heights.</p>
7547-3	<p>Section 21.3 Stability Test – Rear Stability for Non-Tilting Units</p> <p><i>The application of the force shall not cause the unit to tip over.</i></p>	Yes	<p>Met the requirements.</p> <p><u>Unit tips rearward at 34.0 lbf.</u> [1.1 (47-17.875” seat height)] = 32.04 lbf minimum required.</p> <p>-Seat loaded with 6 stability disks for rear stability.</p>
7547-3	<p>Section 21.5 Stability Test – Front Stability for Units Less Than 80 lbs.</p> <p><i>The chair shall not tip over as the result of the force application (4.5 lbf).</i></p>	Yes	<p>Met the requirements.</p> <p><u>Unit tips forward at 28.71 lbf.</u> -4.5 lbf minimum required.</p> <p>-Unit weight = 15.4 lbs. -135 lb. vertical load used 2.4” back from the structural front edge of the seat.</p>

TEST REPORT

Performance Testing Services

PTS Test Report: 7547

Page 3 of 4

4. Test Results continued

Sample ID	ANSI/BIFMA X5.4-2020 Test Description & Acceptance Criteria	Met Criteria ?	Comments/Notes
7547-3	Section 24 Structural Durability Test – Side to Side – Cyclic <i>There shall be no loss of serviceability.</i>	Yes	The sample met the requirements without any issues observed after 25,000 cycles. <u>Requirements</u> +/- 75 lbf loads applied for 25,000 cycles. -240 lbs. applied to the single seating position. Seat Width = 15.5".
Sample ID	ANSI/BIFMA X5.41-2021-400/600 Test Description & Acceptance Criteria	Met Criteria ?	Comments/Notes
7547-4	Section 15 Drop Test – Dynamic – 400 Level <u>Functional Load</u> <i>A functional load shall cause no loss of serviceability.</i> <u>Proof Load</u> <i>A proof load shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.</i>	Yes	Functional & Proof Loads applied without any issues observed. <u>Requirements</u> -Functional Load = 250 lbs. – 6" drop height. -Proof Load = 350 lbs. – 6" drop height. -One (1) seating position tested. -Seat Width = 15.5".
7547-4	Section 15 Drop Test – Dynamic – 600 Level <u>Functional Load</u> <i>A functional load shall cause no loss of serviceability.</i> <u>Proof Load</u> <i>A proof load shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.</i>	Yes	Functional & Proof Loads applied without any issues observed. <u>Requirements</u> -Functional Load = 275 lbs. – 6" drop height. -Proof Load = 400 lbs. – 6" drop height. -One (1) seating position tested. -Seat Width = 15.5".

All testing performed from 12/12/24 to 01/17/25 with temperature and humidity ranges at 21.5-25.4°C/22-28%RH.

4.1 Test Photos



Section 5



Section 7



Section 14



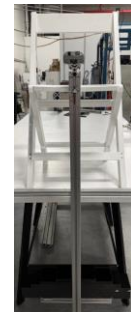
Section 15



Section 17



Section 21.3



Section 21.5



Section 24

TEST REPORT

Performance Testing Services

PTS Test Report: 7547

Page 4 of 4

5.0 Test Equipment

Equipment#	Serial Number	Description	Calibration Due
426	PTS	Measuring Rule – 36”	03/06/25
434	PTS	Digital Scale	05/06/25
402	Y9803D032	Shimpo Digital Force Gauge – 500 lbf	01/23/25
448	753671	Load Cell w/cond. – 1000 lbf	01/24/25
437	PTS	Rear Stability Loading Disks w/support fixture	08/03/25
431	PTS	Front Stability Fixture	07/13/25
PTS	PTS	15 lb., 25 lb. & 50 lb. weights/bags	05/09/25
453	780611	Load Cell w/cond. – 1000 lbf	01/24/25
454	780618	Load Cell w/cond. – 1000 lbf	01/24/25
471	1170795A	Pancake Load Cell – 1000 lbf w/EA Test System	02/21/25
463	1007072	Load Cell w/cond. – 1000 lbf	01/31/25
479	1551010	Load Cell w/cond. – 1000 lbf	04/18/25

Approved By:



Kirk Craymer
Test Engineer