Page 1 of 24

Work Order No.: 1407AD

	FSTL Final Test Report	<u>Test Facility:</u> FSTL
<u>Test Date:</u>	<u>Test Procedure:</u>	4545 W. Augusta Blvd.
9/10/2014	FSTL Tension	Chicago, IL 60651

Description of Item Tested

All test items are obtained according to FSTL procedure LAI-011 unless otherwise noted. All items are tested for compliance with applicable standards, previously reviewed and approved by the party requesting this test, unless otherwise specifically noted:

Fenton installed (3) 1PL Flip 3pt seats [45098] on custom legs in row 1 in a Fenton Ford Transit Test Buck.

Description of Results



Summary of FSTL_Tension

A force of 3,000 lb shall be applied to each lap and shoulder belt at $10^{\circ} \pm 5^{\circ}$ above the horizontal plane. In addition, a force equal to 20 times the system mass was applied simultaneously through the CG of the seating system. The required forces must be reached within 30 seconds from the onset of the test then, when reached must be held for 10 seconds.

Note: Full compliance with FMVSS and its Regulations, as set forth under 49 USC 301, et. seq., can only be achieved through proper in-vehicle testing. Freedman Seating Company, its agents, employees, affiliates and subsidiaries ("Freedman Seating") are not liable for damages resulting from the installation of any seat in a vehicle that has not been FMVSS tested or any installation of a seat that deviates from a FMVSS tested installation method. Freedman Seating has no responsibility for the design of any vehicle in which the subject seat may be placed, or any resulting damages. The results documented in this report relate only to the items tested, as described herein.

Test Opinions and Interpretations

Note: This Test Report is provided solely for the use of the party requesting the same identified below, and for no other person, entity or purpose. This test report shall not be reproduced except in full. Reproductions require written permission of FSTL in each instance.

see page 2 for results

Form Number: 010.06

Test Report Reviewed by:			Test Requested By:
	Miguele Ib	email=miguelf@freedmanseat.com, o=Freedman Seating Co., ou=FSTL,	Scott & Jerry / Fenton Mobility
		c=US Date: 2014.09.11 09:38:02 -05'00'	1209 East 2nd St. Jamestown, NY
Test Report Approved by:		Digitally signed by David I O'Malley	Request Received Date:
	David D. OMalley		7/15/2014
	Wave by alliand	m, o=FSTL, ou=FSTL, c=US Date: 2014.09.11 09:49:41 -05'00'	

Equipment Documentation

Test Fixtures:

Fixture #:	Description
PL-002	Pull Test Machine
PL-205	Body Block
PL-206	Shoulder Block
PULLEYS	

Measurement Equipment:

Equipment #:	Description	Last Calibration #		
LC-001	Load Cell -15K, S.N. 21358576	C1408		
LC-002	Load Cell -15K, S.N. Y51758 C1408			
LC-005	Load Cell -15K, S.N. 21062347	C1408		
LC-003	Load Cell -15K, S.N. 21401889	C1408		
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Work Order No.: 1407AD

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Data Sheet

FSTL

4545 w. Augusta Blvd. Chicago, IL.

Work Order No.: 1407AD

Requirements for compliant test.	Yes/ No / N/A
Test artifact reached loads within 30 seconds	yes
Test artifact sustained loads for 10 seconds or more.	yes
Seat frame released from it's adjusted position?	n/a
Seat frame or seat adjusters detach from the test platform/vehic	le? no
Seat frame detaches from seat adjuster mechanism?	n/a
Seat adjuster separates?	n/a

Pass/Fail PASS

Notes:

Test1: vehicle front bumper displaced above the test platform during test. One Cylider ran out of stroke. The test was stopped.

Test2: Vehicle was repositioned and tied down. Test was restarted.

	FSTL Final Test Report	<u>Test Facility:</u> FSTL
<u>Test Date:</u>	<u>Test Procedure:</u>	4545 W. Augusta Blvd.
9/10/2014	FSTL_Tension	Chicago, IL 60651

Description of Item Tested

All test items are obtained according to FSTL procedure LAI-011 unless otherwise noted. All items are tested for compliance with applicable standards, previously reviewed and approved by the party requesting this test, unless otherwise specifically noted:

Fenton installed (3) 1PL rigid 3pt seats [25822] on baseframe [15365] on custom legs in row in a Fenton Ford Transit Test Buck.



Summary of FSTL Tension

A force of 3,000 lb shall be applied to each lap and shoulder belt at $10^{\circ} \pm 5^{\circ}$ above the horizontal plane. In addition, a force equal to 20 times the system mass was applied simultaneously through the CG of the seating system. The required forces must be reached within 30 seconds from the onset of the test then, when reached must be held for 10 seconds.

Note: Full compliance with FMVSS and its Regulations, as set forth under 49 USC 301, et. seq., can only be achieved through proper in-vehicle testing. Freedman Seating Company, its agents, employees, affiliates and subsidiaries ("Freedman Seating") are not liable for damages resulting from the installation of any seat in a vehicle that has not been FMVSS tested or any installation of a seat that deviates from a FMVSS tested installation method. Freedman Seating has no responsibility for the design of any vehicle in which the subject seat may be placed, or any resulting damages. The results documented in this report relate only to the items tested, as described herein.

Test Opinions and Interpretations

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see page 3 for results

Test Report Reviewed by:

Miguel J

Digitally signed by Miguel Flores, DN: cn=Miguel Flo

Equipment Documentation

Test Fixtures:

Fixture #:	Description
PL-002	Pull Test Machine
PL-205	Body Block
PL-206	Shoulder Block
PULLEYS	
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Measurement Equipment:

Equipment #:	Description	Last Calibration #	
LC-001	Load Cell -15K, S.N. 21358576	C1408	
LC-002	Load Cell -15K, S.N. Y51758	C1408	
LC-005	C1408		
LC-003	Load Cell -15K, S.N. 21401889	C1408	

Data Sheet

FSTL

4545 w. Augusta Blvd. Chicago, IL.

Work Order No.: 1407AC

Requirements for compliant test.	Yes/ No / N/A
Test artifact reached loads within 30 seconds	yes
Test artifact sustained loads for 10 seconds or more.	yes
Seat frame released from it's adjusted position?	n/a
Seat frame or seat adjusters detach from the test platform/vehicle?	no
Seat frame detaches from seat adjuster mechanism?	n/a
Seat adjuster separates?	n/a

Pass/Fail PASS

Notes:	
	n/a

	FSTL Final Test Report	<u>Test Facility:</u> FSTL
<u>Test Date:</u>	<u>Test Procedure:</u>	4545 W. Augusta Blvd.
9/10/2014	FMVSS 207/210	Chicago, IL 60651

Description of Item Tested

All test items are obtained according to FSTL procedure LAI-011 unless otherwise noted. All items are tested for compliance with applicable standards, previously reviewed and approved by the party requesting this test, unless otherwise specifically noted:

Fenton installed a 2PL rigid 3pt seat [25822] on baseframe [39448] on custom legs in row 3 in a Fenton Ford Transit Test Buck.



Summary of FMVSS 571.207.S4.2a & Section 571.210.S5.1

A force of 3,000 lb shall be applied to each lap and shoulder belt at $10^{\circ} \pm 5^{\circ}$ above the horizontal plane. In addition, a force equal to 20 times the system mass was applied simultaneously through the CG of the seating system. The required forces must be reached within 30 seconds from the onset of the test then, when reached must be held for 10 seconds.

Note: Full compliance with FMVSS and its Regulations, as set forth under 49 USC 301, et. seq., can only be achieved through proper in-vehicle testing. Freedman Seating Company, its agents, employees, affiliates and subsidiaries ("Freedman Seating") are not liable for damages resulting from the installation of any seat in a vehicle that has not been FMVSS tested or any installation of a seat that deviates from a FMVSS tested installation method. Freedman Seating has no responsibility for the design of any vehicle in which the subject seat may be placed, or any resulting damages. The results documented in this report relate only to the items tested, as described herein.

Test Opinions and Interpretations

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see page 2 for results

Test Report Reviewed by:		Digitally signed by Miguel Flores DN: cn=Miguel Flores.	Test Requested By:
	Migueleth	email=miguelf@freedmanseat.com, o=Freedman Seating Co., ou=FSTL,	Scott & Jerry / Fenton Mobility
		C=US Date: 2014.09.11 09:49:24 -05'00'	1209 East 2nd St. Jamestown, NY
Test Report Approved by:			Request Received Date:
	David D. OMalley	DN: cn=David I O'Malley, email=davido@freedmanseat.com, o=FSTL, ou=FSTL, c=US	7/15/2014
	ward hi oil	Date: 2014.09.11 09:48:54 -05'00'	

Equipment Documentation

Test Fixtures:

Fixture #:	Description
PL-002	Pull Test Machine
PL-205	(2) Body Block
PL-206	(2) Shoulder block
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Measurement Equipment:

Equipment #:	Description	Last Calibration #	
LC-001	Load Cell -15K, S.N. 21358576	C1408	
LC-002	Load Cell -15K, S.N. Y51758	C1408	
LC-003	Load Cell -15K, S.N. Y68886	C1408	
LC-004	Load Cell -15K, S.N. 21351653	C1408	
LC-005	Load Cell -15K, S.N. 21062347	C1408	
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Work Order No.: 1407AE

FMVSS 207/210 Data Sheet

Page 3 of 23 **FSTL** 4545 w. Augusta Blvd.

Chicago, IL.

Work Order No.: 1407AE

Notes:

Requirements for compliant test.	Yes/ No / N/A	
Test artifact reached FMVSS loads within 30 seconds	yes	
Test artifact sustained FMVSS loads for 10 seconds or more.	yes	
Seat frame released from it's adjusted position?	n/a	
Seat frame or seat adjusters detach from the test platform/vehicle?	no	
Seat frame detaches from seat adjuster mechanism?	n/a	
Seat adjuster separates?	n/a	
		Pass/Fail
		PASS

Form Number: 048.IR

	FSTL Final Test Report	<u>Test Facility:</u> FSTL	
Test Date:	Test Procedure:	4545 W. Augusta Blvd.	
4/16/2015	FMVSS 207/210	Chicago, IL 60651	

Description of Item Tested

All test items are obtained according to FSTL procedure LAI-011 unless otherwise noted. All items are tested for compliance with applicable standards, previously reviewed and approved by the party requesting this test, unless otherwise specifically noted:

Fenton installed a 2PL 3pt foldaway seat [26401] in row 4 in a Fenton Ford Transit Test Buck.

Description of Results



Summary of FMVSS 571.207.S4.2a & Section 571.210.S5.1

A force of 3,000 lb shall be applied to each lap and shoulder belt at $10^{\circ} \pm 5^{\circ}$ above the horizontal plane. In addition, a force equal to 20 times the system mass was applied simultaneously through the CG of the seating system. The required forces must be reached within 30 seconds from the onset of the test then, when reached must be held for 10 seconds.

Note: Full compliance with FMVSS and its Regulations, as set forth under 49 USC 301, et. seq., can only be achieved through proper in-vehicle testing. Freedman Seating Company, its agents, employees, affiliates and subsidiaries ("Freedman Seating") are not liable for damages resulting from the installation of any seat in a vehicle that has not been FMVSS tested or any installation of a seat that deviates from a FMVSS tested installation method. Freedman Seating has no responsibility for the design of any vehicle in which the subject seat may be placed, or any resulting damages. The results documented in this report relate only to the items tested, as described herein.

Test Opinions and Interpretations

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Test Report Reviewed by:

Miguel J Seating Co email=mig om, c=US

Digitally signed by Miguel Flores DN: Cn=Miguel Flores, o=FSTL/Freedman Seating Co., ou=Deputy Tech. Manager, email=miguel.flores@freedmanseating.c om, c=US Date: 2015.04.16 16:09:04 -05'00' Test Requested By: Scott & Jerry / Fenton Mobility 1209 East 2nd St. Jamestown, NY Request Received Date:

Test Report Approved by:

David D. OMalley

Digitally signed by David I O'Malley DN: cn=David I O'Malley, o=FSTL -Technical Manager, ou=FSTL -Technical Manager, email=david.omalley @ freedmanseating com, c=US Date: 2015 04 16 16:13:26-06:00

3/4/2015

FMVSS 207/210 Data Sheet

FSTL

4545 w. Augusta Blvd. Chicago, IL.

Work Order No.: 1503P

Requirements for compliant test.	Yes/ No / N/A
Test artifact reached FMVSS loads within 30 seconds Test artifact sustained FMVSS loads for 10 seconds or more.	yes yes
Seat frame released from it's adjusted position? Seat frame or seat adjusters detach from the test platform/vehicle? Seat frame detaches from seat adjuster mechanism? Seat adjuster separates?	n/a no n/a n/a Pas

Pass/Fail PASS

Notes:				
	n/a			