

Declaration of Conformity

In Accordance with ANSI/ISEA 125-2014 and ANSI/ASSP Z359.7-2019



Alexander Andrew, Inc. 1306 S. Alameda St Compton, CA 90221 (800) 719-4619

Declaration #

B0818163a

Declaration Date

4/15/2022

Tested Item #

8141FDM

FT-Iron FBH 1D+FD Climbing Non-Belted, Medium, QC
Legs/QC Chest

Additional Items Conforming Under this Declaration:

81412X3X	8141BSM	8141FD3X	8141FDXL	8141SM
8141B2X3X	8141BXS	8141FDL	8141FDXS	8141XS
8141BLXL	8141FD2X	8141FDS	8141LXL	

Alexander Andrew, Inc. declares that the product(s) listed above is in conformity with the requirements of the following product standard(s):

ANSI Z359.11-2021

Conformity Assessment Method in accordance with ANSI/ISEA 125-2014

Level 1

Level 2

Level 3

Level 1: FallTech Lab
Outside the Scope of
ISO/IEC Standard 17025:2005

Level 2: FallTech Lab
Within the Scope of
ISO/IEC Standard 17025:2005

Level 3: Independent 3rd Party Lab
accredited to
ISO/IEC Standard 17025:2005

Supporting
Documentation

PC-2327

Authorized Signature

Name

Zachary Winters

Title

Engineering Manager

Date

4/15/2022



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FallTech Lab - TL-594
ISO/IEC 17025:2017

Alexander Andrew Inc dba FallTech

FallTech Test Report

Test Report No.	PC-2327	Rpt. Date	8/13/2021	Rpt. Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification(s)	ANSI Z359.11-2021: 4.3.5, 4.3.3, 4.3.4, 4.3.6				
Part No.	8141FDM	Part No. Revision	A				
Part Description	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest						
Test Request No.	PC-2327	Date Complete	8/13/2021				
Test Operator(s)	Yesbet Sierra / Jay Sponholz						

Material/Sample Identification

Sample ID	Description
SST1	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
SST2	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
SST3	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
SSTS1	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
SSTS2	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
SSTS3	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
DPT1	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
DPT2	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
DPT3	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
HF1	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
HF2	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
HF3	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
DPTS1	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
DPTS2	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
DPTS3	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
I1	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
I2	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest
I3	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest

Test Summary

Test Specification	Test Criteria		Test Result	Pass/Fail
ANSI Z359.11-2021 4.3.5	Static Strength (Dorsal D-ring)	3600 Lbf \geq 1 Minute	3640.4 Lbf	Pass
	Static Strength (Dorsal D-ring)	Harness Shall Not Release Test Torso	Did Not Release	Pass
	Adjuster Slippage	Slippage \leq 1"	0.20"	Pass
	Tear Distance (Buckle)	Shall Not Tear a Distance > 1" or Adjacent Eyelet	Did Not Tear Through	Pass
	Tearing	Straps Shall Not Show Any Signs of Tearing	Did Not Tear	Pass



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Part Description	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest						
Test Request No.	PC-2327	Date Complete	8/13/2021				

Test Summary (Continued)

Test Specification	Test Criteria		Test Result	Pass/Fail
ANSI Z359.11-2021 4.3.5	Static Strength (Dorsal D-ring)	3600 Lbf \geq 1 Minute	3655.8 Lbf	Pass
	Static Strength (Dorsal D-ring)	Harness Shall Not Release Test Torso	Did Not Release	Pass
	Adjuster Slippage	Slippage \leq 1"	0.0"	Pass
	Tear Distance (Buckle)	Shall Not Tear a Distance > 1" or Adjacent Eyelet	Did Not Tear Through	Pass
	Tearing	Straps Shall Not Show Any Signs of Tearing	Did Not Tear	Pass
ANSI Z359.11-2021 4.3.5	Static Strength (Dorsal D-ring)	3600 Lbf \geq 1 Minute	3640.9 Lbf	Pass
	Static Strength (Dorsal D-ring)	Harness Shall Not Release Test Torso	Did Not Release	Pass
	Adjuster Slippage	Slippage \leq 1"	0.0"	Pass
	Tear Distance (Buckle)	Shall Not Tear a Distance > 1" or Adjacent Eyelet	Did Not Tear Through	Pass
	Tearing	Straps Shall Not Show Any Signs of Tearing	Did Not Tear	Pass
ANSI Z359.11-2021 4.3.5	Static Strength (Sternal D-ring)	3600 Lbf \geq 1 Minute	3643.1 Lbf	Pass
	Static Strength (Sternal D-ring)	Harness Shall Not Release Test Torso	Did Not Release	Pass
	Adjuster Slippage	Slippage \leq 1"	0.0"	Pass
	Tear Distance	Shall Not Tear a Distance > 1" or Adjacent Eyelet	Did Not Tear Through	Pass
	Tearing	Straps Shall Not Show Any Signs of Tearing	Did Not Tear	Pass
ANSI Z359.11-2021 4.3.5	Static Strength (Sternal D-ring)	3600 Lbf \geq 1 Minute	3632.5 Lbf	Pass
	Static Strength (Sternal D-ring)	Harness Shall Not Release Test Torso	Did Not Release	Pass
	Adjuster Slippage	Slippage \leq 1"	0.23"	Pass
	Tear Distance	Shall Not Tear a Distance > 1" or Adjacent Eyelet	Did Not Tear Through	Pass
	Tearing	Straps Shall Not Show Any Signs of Tearing	Did Not Tear	Pass



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Part No.	8141FDM	Part No. Revision	A				
Part Description	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest						
Test Request No.	PC-2327	Date Complete	8/13/2021				

Test Summary (Continued)

Test Specification	Test Criteria	Test Result	Pass/Fail
ANSI Z359.11-2021 4.3.5	Static Strength (Sternal D-ring)	3600 Lbf \geq 1 Minute	3634.0 Lbf Pass
	Static Strength (Sternal D-ring)	Harness Shall Not Release Test Torso	Did Not Release Pass
	Adjuster Slippage	Slippage \leq 1"	0.30" Pass
	Tear Distance	Shall Not Tear a Distance > 1" or Adjacent Eyelet	Did Not Tear Through Pass
	Tearing	Straps Shall Not Show Any Signs of Tearing	Did Not Tear Pass
ANSI Z359.11-2021 4.3.3	Dynamic Performance Dorsal D-ring (Feet First)	Peak Impact Load \geq 3600 Lbf	4760.1 Lbf Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Harness Shall Not Release Test Torso	Did Not Release Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Remain Suspended for \geq 5 Minutes	5 Minutes Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Angle at Rest \leq 30°	2.4° Pass
	Dynamic Performance Dorsal D-ring (Feet First)	At Least One Fall Arrest Indicator Shall Deploy	Visibly and Permanently Deployed Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Harness Stretch Shall Not Exceed 18"	11.5" Pass
ANSI Z359.11-2021 4.3.3	Dynamic Performance Dorsal D-ring (Feet First)	Peak Impact Load \geq 3600 Lbf	5018.6 Lbf Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Harness Shall Not Release Test Torso	Did Not Release Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Remain Suspended for \geq 5 Minutes	5 Minutes Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Angle at Rest \leq 30°	4.1° Pass
	Dynamic Performance Dorsal D-ring (Feet First)	At Least One Fall Arrest Indicator Shall Deploy	Visibly and Permanently Deployed Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Harness Stretch Shall Not Exceed 18"	10.5" Pass

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Test Request No.	PC-2327	Date Complete	8/13/2021				

Test Summary (Continued)

Test Specification	Test Criteria	Test Result	Pass/Fail	
ANSI Z359.11-2021 4.3.3	Dynamic Performance Dorsal D-ring (Feet First)	Peak Impact Load ≥ 3600 Lbf	5059.2 Lbf	Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Harness Shall Not Release Test Torso	Did Not Release	Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Remain Suspended for ≥ 5 Minutes	5 Minutes	Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Angle at Rest ≤ 30°	5.4°	Pass
	Dynamic Performance Dorsal D-ring (Feet First)	At Least One Fall Arrest Indicator Shall Deploy	Visibly and Permanently Deployed	Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Harness Stretch Shall Not Exceed 18"	10.3"	Pass
ANSI Z359.11-2021 4.3.4	Dynamic Performance Dorsal D-ring (Head First)	Peak Impact ≥ 3,600 Lbf or 72" Free Fall	72" Free fall 2355.6 Lbf	Pass
	Dynamic Performance Dorsal D-ring (Head First)	Harness Shall Not Release Test Torso	Did Not Release	Pass
	Dynamic Performance Dorsal D-ring (Head First)	Remain Suspended for ≥ 5 Minutes	5 Minutes	Pass
	Dynamic Performance Dorsal D-ring (Head First)	Angle at Rest ≤ 30°	7.7°	Pass
	Dynamic Performance Dorsal D-ring (Head First)	At Least One Fall Arrest Indicator Shall Deploy	Visibly and Permanently Deployed	Pass
ANSI Z359.11-2021 4.3.4	Dynamic Performance Dorsal D-ring (Head First)	Peak Impact ≥ 3,600 Lbf or 72" Free Fall	72" Free fall 2183.5 Lbf	Pass
	Dynamic Performance Dorsal D-ring (Head First)	Harness Shall Not Release Test Torso	Did Not Release	Pass
	Dynamic Performance Dorsal D-ring (Head First)	Remain Suspended for ≥ 5 Minutes	5 Minutes	Pass
	Dynamic Performance Dorsal D-ring (Head First)	Angle at Rest ≤ 30°	24.8°	Pass
	Dynamic Performance Dorsal D-ring (Head First)	At Least One Fall Arrest Indicator Shall Deploy	Visibly and Permanently Deployed	Pass

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Test Summary (Continued)

Test Specification	Test Criteria	Test Result	Pass/Fail	
ANSI Z359.11-2021 4.3.4	Dynamic Performance Dorsal D-ring (Head First)	Peak Impact \geq 3,600 Lbf or 72" Free Fall	72" Free fall 2647.1 Lbf	Pass
	Dynamic Performance Dorsal D-ring (Head First)	Harness Shall Not Release Test Torso	Did Not Release	Pass
	Dynamic Performance Dorsal D-ring (Head First)	Remain Suspended for \geq 5 Minutes	5 Minutes	Pass
	Dynamic Performance Dorsal D-ring (Head First)	Angle at Rest \leq 30°	7.3°	Pass
	Dynamic Performance Dorsal D-ring (Head First)	At Least One Fall Arrest Indicator Shall Deploy	Visibly and Permanently Deployed	Pass
ANSI Z359.11-2021 4.3.3	Dynamic Performance Sternal D-ring (Feet First)	Peak Impact Load \geq 3600 Lbf	3867.8 Lbf	Pass
	Dynamic Performance Sternal D-ring (Feet First)	Harness Shall Not Release Test Torso	Did Not Release	Pass
	Dynamic Performance Sternal D-ring (Feet First)	Remain Suspended for \geq 5 Minutes	5 Minutes	Pass
	Dynamic Performance Sternal D-ring (Feet First)	Angle at Rest \leq 50°	28.0°	Pass
	Dynamic Performance Sternal D-ring (Feet First)	At Least One Fall Arrest Indicator Shall be Deployed Visibly and Permanently	Visibly and Permanently Deployed	Pass
	Dynamic Performance Sternal D-ring (Feet First)	Harness Stretch Shall Not Exceed 18"	9.9"	Pass
ANSI Z359.11-2021 4.3.3	Dynamic Performance Sternal D-ring (Feet First)	Peak Impact Load \geq 3600 Lbf	3939.7 Lbf	Pass
	Dynamic Performance Sternal D-ring (Feet First)	Harness Shall Not Release Test Torso	Did Not Release	Pass
	Dynamic Performance Sternal D-ring (Feet First)	Remain Suspended for \geq 5 Minutes	5 Minutes	Pass
	Dynamic Performance Sternal D-ring (Feet First)	Angle at Rest \leq 50°	32.7°	Pass
	Dynamic Performance Sternal D-ring (Feet First)	At Least One Fall Arrest Indicator Shall be Deployed Visibly and Permanently	Visibly and Permanently Deployed	Pass
	Dynamic Performance Sternal D-ring (Feet First)	Harness Stretch Shall Not Exceed 18"	11.2"	Pass

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Part Description	FT-Iron FBH 1D + FD Climbing Non-belted, Medium, QC Legs/QC Chest						
Test Request No.	PC-2327	Date Complete	8/13/2021				


Test Summary (Continued)

Test Specification	Test Criteria	Test Result	Pass/Fail	
ANSI Z359.11-2021 4.3.3	Dynamic Performance Sternal D-ring (Feet First)	Peak Impact Load ≥ 3600 Lbf	3838.9 Lbf	Pass
	Dynamic Performance Sternal D-ring (Feet First)	Harness Shall Not Release Test Torso	Did Not Release	Pass
	Dynamic Performance Sternal D-ring (Feet First)	Remain Suspended for ≥ 5 Minutes	5 Minutes	Pass
	Dynamic Performance Sternal D-ring (Feet First)	Angle at Rest ≤ 50°	29.8°	Pass
	Dynamic Performance Sternal D-ring (Feet First)	At Least One Fall Arrest Indicator Shall be Deployed Visibly and Permanently	Visibly and Permanently Deployed	Pass
	Dynamic Performance Sternal D-ring (Feet First)	Harness Stretch Shall Not Exceed 18"	11.3"	Pass
ANSI Z359.11-2021 4.3.6	Fall Arrest Indicator Test (Dorsal D-ring)	At Least One Fall Arrest Indicator Shall Deploy	Visibly and Permanently Deployed	Pass
ANSI Z359.11-2021 4.3.6	Fall Arrest Indicator Test (Dorsal D-ring)	At Least One Fall Arrest Indicator Shall Deploy	Visibly and Permanently Deployed	Pass
ANSI Z359.11-2021 4.3.6	Fall Arrest Indicator Test (Dorsal D-ring)	At Least One Fall Arrest Indicator Shall Deploy	Visibly and Permanently Deployed	Pass

Conclusion

Based upon the samples provided to the Lab:
 FallTech P/N 8141FDM Rev. A meets the requirements of ANSI Z359.11-2021

Report Signatories and Approval

Lab Quality Manager		Date	8/13/2021
Witnessed by	Not Required	Date	N/A

