

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 #

B0519190

Declaration Date

5/19/2023

Tested Item #

8142SM

FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M,
TB Legs/QC Chest

Additional Items Conforming Under this Declaration:

8142XS

8142LXL

81422X3X

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-2825

Authorized Signature

Name

Zachary Winters

Title

Engineering Manager

Date

5/19/2023



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

Alexander Andrew Inc dba FallTech

FallTech Test Report

Test Report No.	PC-2825	Rpt. Date	5/11/2023	Rpt. Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Zachary Winters	Test Specification(s)		ANSI Z359.11-2021: 4.3.3, 4.3.4, 4.3.5, 4.3.6			
Part No.	8142SM	Part No. Revision			E		
Part Description	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest						
Test Request No.	PC-2825	Date Complete			5/11/2023		
Test Operator(s)	Yesbet Sierra / Jay Sponholz						

Material/Sample Identification

Sample ID	Description
6999774	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest
6999753	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest
6999764	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest
6999754	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest
6999752	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest
6999784	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest
6999791	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest
6999785	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest
6999779	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest
6999790	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest
6999778	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest
6999772	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest
6999752	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest
6999784	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest
6999754	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and 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	3629.4 Lbf	Pass
	Hold Test Torso	Shall Not Release Torso	Did Not Release	Pass
	Adjuster Slippage	Slippage \leq 1"	0.36"	Pass
	Tear Distance (Buckle)	Shall Not Tear > 1"	Did Not Tear Through	Pass
	Tearing (Straps)	Shall Not Show Any Tearing	Did Not Tear	Pass
ANSI Z359.11-2021 4.3.5	Static Strength (Dorsal D-ring)	3600 Lbf \geq 1 Minute	3635.3 Lbf	Pass
	Hold Test Torso	Shall Not Release Torso	Did Not Release	Pass
	Adjuster Slippage	Slippage \leq 1"	0.26"	Pass
	Tear Distance (Buckle)	Shall Not Tear > 1"	Did Not Tear Through	Pass
	Tearing (Straps)	Shall Not Show Any Tearing	Did Not Tear	Pass
ANSI Z359.11-2021 4.3.5	Static Strength (Dorsal D-ring)	3600 Lbf \geq 1 Minute	3632.4 Lbf	Pass
	Hold Test Torso	Shall Not Release Torso	Did Not Release	Pass
	Adjuster Slippage	Slippage \leq 1"	0.29"	Pass
	Tear Distance (Buckle)	Shall Not Tear > 1"	Did Not Tear Through	Pass
	Tearing (Straps)	Shall Not Show Any Tearing	Did Not Tear	Pass

FallTech Test Report

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Initiated By	Zachary Winters	Test Specification(s)	ANSI Z359.11-2021: 4.3.3, 4.3.4, 4.3.5, 4.3.6				
Part No.	8142SM	Part No. Revision	E				
Part Description	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest						
Test Request No.	PC-2825	Date Complete	5/11/2023				

Test Summary Continued

Test Specification	Test Criteria	Test Result	Pass/Fail	
ANSI Z359.11-2021 4.3.5	Static Strength (Side D-rings)	3600 Lbf \geq 1 Minute	3661.8 Lbf	Pass
	Hold Test Torso	Shall Not Release Torso	Did Not Release	Pass
	Adjuster Slippage	Slippage \leq 1"	0.0"	Pass
	Tear Distance (Buckle)	Shall Not Tear > 1"	Did Not Tear Through	Pass
	Tearing (Straps)	Shall Not Show Any Tearing	Did Not Tear	Pass
ANSI Z359.11-2021 4.3.5	Static Strength (Side D-rings)	3600 Lbf \geq 1 Minute	3627.6 Lbf	Pass
	Hold Test Torso	Shall Not Release Torso	Did Not Release	Pass
	Adjuster Slippage	Slippage \leq 1"	0.0"	Pass
	Tear Distance (Buckle)	Shall Not Tear > 1"	Did Not Tear Through	Pass
	Tearing (Straps)	Shall Not Show Any Tearing	Did Not Tear	Pass
ANSI Z359.11-2021 4.3.5	Static Strength (Side D-rings)	3600 Lbf \geq 1 Minute	3647.3 Lbf	Pass
	Hold Test Torso	Shall Not Release Torso	Did Not Release	Pass
	Adjuster Slippage	Slippage \leq 1"	0.0"	Pass
	Tear Distance (Buckle)	Shall Not Tear > 1"	Did Not Tear Through	Pass
	Tearing (Straps)	Shall Not Show Any 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	4563.4 Lbf	Pass
	Fall Arrest	Shall Not Release Torso	Did Not Release	Pass
	Post Drop Angle	Angle at Rest \leq 30°	3.6°	Pass
	Impact Indicator	One Indicator Shall Deploy	Permanently Deployed	Pass
	Harness Stretch	Shall Not Exceed 18"	10.7"	Pass
ANSI Z359.11-2021 4.3.3	Dynamic Performance Dorsal D-ring (Feet First)	Peak Impact Load \geq 3600 Lbf	4655.8 Lbf	Pass
	Fall Arrest	Shall Not Release Torso	Did Not Release	Pass
	Post Drop Angle	Angle at Rest \leq 30°	4.3°	Pass
	Impact Indicator	One Indicator Shall Deploy	Permanently Deployed	Pass
	Harness Stretch	Shall Not Exceed 18"	11.8"	Pass
ANSI Z359.11-2021 4.3.3	Dynamic Performance Dorsal D-ring (Feet First)	Peak Impact Load \geq 3600 Lbf	4678.4 Lbf	Pass
	Fall Arrest	Shall Not Release Torso	Did Not Release	Pass
	Post Drop Angle	Angle at Rest \leq 30°	2.8°	Pass
	Impact Indicator	One Indicator Shall Deploy	Permanently Deployed	Pass
	Harness Stretch	Shall Not Exceed 18"	11.6"	Pass

FallTech Test Report

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Report Prepared For	FallTech						
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Part No.	8142SM	Part No. Revision	E				
Part Description	FT-Iron FBH 3D Standard Non-Belted, Dual Size S/M, TB Legs and QC Chest						
Test Request No.	PC-2825	Date Complete	5/11/2023				

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 2356.8 Lbf	72" Free fall 2356.8 Lbf Pass
	Fall Arrest	Shall Not Release Torso	Did Not Release Pass
	Post Drop Angle	Angle at Rest \leq 30°	4.6° Pass
	Impact Indicator	One Indicator Shall Deploy	Permanently Deployed Pass
ANSI Z359.11-2021 4.3.4	Dynamic Performance Dorsal D-ring (Head First)	Peak Impact \geq 3,600 Lbf or 72" Free Fall 2276.4 Lbf	72" Free fall 2276.4 Lbf Pass
	Fall Arrest	Shall Not Release Torso	Did Not Release Pass
	Post Drop Angle	Angle at Rest \leq 30°	3.3° Pass
	Impact Indicator	One Indicator Shall Deploy	Permanently Deployed Pass
ANSI Z359.11-2021 4.3.4	Dynamic Performance Dorsal D-ring (Head First)	Peak Impact \geq 3,600 Lbf or 72" Free Fall 2267.9 Lbf	72" Free fall 2267.9 Lbf Pass
	Fall Arrest	Shall Not Release Torso	Did Not Release Pass
	Post Drop Angle	Angle at Rest \leq 30°	1.8° Pass
	Impact Indicator	One Indicator Shall Deploy	Permanently Deployed Pass
ANSI Z359.11-2021 4.3.6	Fall Arrest Indicator Test (Doral 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 (Doral 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 (Doral 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 8142SM Rev. E meets the requirements of ANSI Z359.11-2021

Report Signatories and Approval

Lab Quality Manager		Date	5/11/2023
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