


Test Report Number: 2018120437009
 Job Number: 136954
 Product Type: Harness
 Product Model: 37009 Series 1 Harness, M-L, PT legs, 3-D (dorsal, side)
 Dates of Manufacture: 08/01/18
 Date(s) of Testing: 09/06/18

<u>Tests Completed</u>	<u>Test Date</u>	<u>ANSI/ASSE Z359.11-2014</u>	<u>Pass/Fail</u>
Dynamic Performance FF	9/6		Pass
Dynamic Performance HF	9/6		Pass
Static Strength FF	9/6		Pass
Static Strength FF (Hip)	9/6		Pass
Load Bearing Straps	N/A		
General Requirements	12/4		Pass
Marking and Instructions	12/4		Pass
Fall Arrest Indicator	9/6		Pass


Please see attached test data for details

This test report covers these additional products:

37000; 37001; 37002; 37003; 37004; 37005; 37006; 37007; 37008; 37010; 37011; 37012; 37013;
 37014; 37015; 37016; 37017; 37018; 37019; 37020; 37021; 37022; 37023

John Halas,
Engineer 

Date: 12/20/18

Craig Allen,
Test Technician: 

Date: 12/21/2018

Andre Pelland
Compliance and
Quality Manager 

Date: 12/21/2018

Job Number: 136954

Product: Harness

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Engineer: John Halas

Tested By: Craig Allen

Reviewed By: Andre Pelland

Standard: ANSI Z359.11-2014

TEST EQUIPMENT

Equipment	Model	Serial	
Static load cell		347989A	
Dynamic load cell		470679A	



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3.1	Design Requirements	
3.1.1	All FBHs shall permanently incorporate a dorsal attachment element	Yes
3.1.2	All FBHs shall permanently include a load bearing sub-pelvic strap	Yes
3.1.3	All shoulder straps on FBHs shall come together at the dorsal location and either cross, be connected by webbing that meets the requirements of Section 3, or attach with a connector meeting the requirements of Z359.12.	Yes
3.1.4	All FBHs shall permanently incorporate a waist belt or back strap, or other means of controlling the separation of the shoulder straps on the back of the FBH.	Yes
3.1.5	Modular components or assemblies for FBHs designed for the removal of different attachment elements shall meet the requirements of Section 3.	Yes
3.1.5.1	Modular components shall be attached to the harness using connections that meet Section 3 and shall have a minimum breaking strength of 5,000 lbs.	Yes
3.1.5.2	Attachment element extenders shall not be longer than 24 inches from new bearing point to a point on the FBH that is adjacent to the user's body.	Yes
3.1.6	For FBHs integrated into a vest or other garments, the design shall allow visual inspection of the FBH.	Yes
3.1.7	All FBHs shall be equipped with a fall arrest indicator that will deploy during dynamic testing defined in Section 3.2	Yes
3.1.7.1	If fall arrest indicators are present on other attachments elements of the FBH, they must activate when tested in accordance with 4.3.6.	N/A
3.1.8	FBHs with attached connecting subsystem combinations shall meet ANSI Z359.11 for the FBH and the respective ANSI standard for the subsystem.	Yes
3.1.9	All FBHs shall include strap retainers or other components which serve to control the loose ends of straps.	Yes
3.1.10	All FBHs shall include at least one lanyard parking attachment element having a disengagement load of not more than 120 lbs when tested as in 4.3.7.	Yes
3.1.11	It shall not be possible to remove the elements of the FBH that support the shoulders/upper torso from those that support the legs/lower torso.	Yes
3.1.12	All single point attachment elements shall be located laterally within 2 inches of the vertical centerline of the FBH.	Yes
3.1.13	Sternal attachments that consist of two elements intended to be connected at a single point for use shall be fixed and not adjustable vertically. Elements shall be marked to only be used together.	Yes
3.1.14	FBHs that do not include a sub-pelvic strap shall incorporate both frontal and sternal attachment elements, an integral waist belt and leg loop suspension straps, two at the front and two at the rear, all integrally attached to the waist belt.	N/A

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3.3	Component Requirements	
3.3.1	Load bearing straps requirements	
3.3.1.5	After abrasion testing in accordance with FED-STD-191A/5309, straps shall have a breaking strength of not less than 3,600 pounds (16.0 kN) when tested in accordance with FED-STD-191A/4108	Yes



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4.3.3 Dynamic Feet First Drop Test		
a) Position D-ring per product instructions b) Connect test shackle to D-ring c) Lower test torso to remove slack and measure vertical distance to floor (H_i). d) Raise torso to required height e) Release torso and evaluate in accordance with 3.2 f) Measure and record MAF g) Record final height (H_f) h) Calculate FBH stretch: $H_s = H_i - H_f$		

Feet First DORSAL Attachment Requirements per Section 3.2.1.3.1		
SAMPLE #1		
Drop Height	48	inches
Max Arrest Force	4645	lbs.
Hi - initial height	52	inches
Hf - final height	41	inches
FBH shall not release test torso		Pass
FBH shall support test torso for 5 min post fall		Pass
FBH shall support test torso at < 30°	2	degrees
Min. one fall arrest indicator deployed visibly and permanently		Pass
FBH stretch < 18" or that which is stated by mfg - whichever is less ($H_i - H_f$)	11	inches
COMPLIANT	Yes	

Feet First DORSAL Attachment Requirements per Section 3.2.1.3.1		
SAMPLE #2		
Drop Height	48	inches
Max Arrest Force	3977	lbs.
Hi - initial height	51.5	inches
Hf - final height	39.75	inches
FBH shall not release test torso		Pass
FBH shall support test torso for 5 min post fall		Pass
FBH shall support test torso at < 30°	1	degrees
Min. one fall arrest indicator deployed visibly and permanently		Pass
FBH stretch < 18" or that which is stated by mfg - whichever is less ($H_i - H_f$)	11.75	inches
COMPLIANT	Yes	

Feet First DORSAL Attachment Requirements per Section 3.2.1.3.1		
SAMPLE #3		
Drop Height	48	inches
Max Arrest Force	4961	lbs.
Hi - initial height	51	inches
Hf - final height	41.75	inches
FBH shall not release test torso		Pass
FBH shall support test torso for 5 min post fall		Pass
FBH shall support test torso at < 30°	1	degrees
Min. one fall arrest indicator deployed visibly and permanently		Pass
FBH stretch < 18" or that which is stated by mfg - whichever is less ($H_i - H_f$)	9.25	inches
COMPLIANT	Yes	

Notes:

Tested as PRO1

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4.3.4 Dynamic Head First Drop Test

a) Position D-ring 8" ± 1" below top of the shoulders
 b) Connect quick-release mechanism to crotch of torso
 c) Connect shackle to attachment element of FBH
 d) Raise torso to required height
 e) Release torso and evaluate in accordance with 3.2
 f) Measure and record MAF

Head First DORSAL Attachment Requirements per Section 3.2.1.3.2		
SAMPLE #1		
Drop Height	48	inches
Max Arrest Force	3656	lbs.
FBH shall not release test torso		Pass
FBH shall support test torso for 5 min post fall		Pass
FBH shall support test torso at < 30°	1	degrees
Min. one fall arrest indicator deployed visibly and permanently		Pass
COMPLIANT	Yes	

Head First DORSAL Attachment Requirements per Section 3.2.1.3.2		
SAMPLE #2		
Drop Height	48	inches
Max Arrest Force	3164	lbs.
FBH shall not release test torso		Pass
FBH shall support test torso for 5 min post fall		Pass
FBH shall support test torso at < 30°	1	degrees
Min. one fall arrest indicator deployed visibly and permanently		Pass
COMPLIANT	Yes	

Head First DORSAL Attachment Requirements per Section 3.2.1.3.2		
SAMPLE #3		
Drop Height	48	inches
Max Arrest Force	3523	lbs.
FBH shall not release test torso		Pass
FBH shall support test torso for 5 min post fall		Pass
FBH shall support test torso at < 30°	2	degrees
Min. one fall arrest indicator deployed visibly and permanently		Pass
COMPLIANT	Yes	

Notes:

Tested as PRO1

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4.3.5 Static Feet First Test - Dorsal

a) Secure test torso to simulate feet first fall
 b) Connect attachment elements to test equipment
 c) Mark buckle/adjuster locations to measure slippage
 d) Apply load of 3,600 lbs. and maintain for 1 minute.
 e) Release torso and evaluate in accordance with 3.2

Feet First DORSAL Attachment Requirements per Section 3.2.1.3.3		
SAMPLE #1		
FBH shall not release test torso		Pass
Slippage - Crotch strap adjuster - Right	0	inches
Slippage - Crotch strap adjuster - Left	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - Right	0	inches
Slippage - Torso strap adjuster - Left	0	inches
Slippage - Other	0	inches
Slippage - Other	0	inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
COMPLIANT	Yes	

Feet First DORSAL Attachment Requirements per Section 3.2.1.3.3		
SAMPLE #2		
FBH shall not release test torso		Pass
Slippage - Crotch strap adjuster - Right	0	inches
Slippage - Crotch strap adjuster - Left	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - Right	0	inches
Slippage - Torso strap adjuster - Left	0	inches
Slippage - Other	0	inches
Slippage - Other	0	inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
COMPLIANT	Yes	

Feet First DORSAL Attachment Requirements per Section 3.2.1.3.3		
SAMPLE #3		
FBH shall not release test torso		Pass
Slippage - Crotch strap adjuster - Right	0	inches
Slippage - Crotch strap adjuster - Left	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - Right	0	inches
Slippage - Torso strap adjuster - Left	0	inches
Slippage - Other	0	inches
Slippage - Other	0	inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
COMPLIANT	Yes	

Notes:

Tested as PRO1

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4.3.3 Dynamic Feet First Drop Test		
a) Position D-ring per product instructions b) Connect test shackle to D-ring c) Lower test torso to remove slack and measure vertical distance to floor (H_i). d) Raise torso to required height e) Release torso and evaluate in accordance with 3.2 f) Measure and record MAF g) Record final height (H_f) h) Calculate FBH stretch: $H_s = H_i - H_f$		

Feet First STERNAL Attachment Requirements per Section 3.2.2.3.1		
SAMPLE #1		
Drop Height		inches
Max Arrest Force		lbs.
Hi - initial height		inches
Hf - final height		inches
FBH shall not release test torso		
FBH shall support test torso for 5 min post fall		
FBH shall support test torso at $< 50^\circ$		degrees
Min. one fall arrest indicator deployed visibly and permanently		
FBH stretch $< 18"$ or that which is stated by mfg - whichever is less ($H_i - H_f$)		inches
COMPLIANT		

Feet First STERNAL Attachment Requirements per Section 3.2.2.3.1		
SAMPLE #2		
Drop Height		inches
Max Arrest Force		lbs.
Hi - initial height		inches
Hf - final height		inches
FBH shall not release test torso		
FBH shall support test torso for 5 min post fall		
FBH shall support test torso at $< 50^\circ$		degrees
Min. one fall arrest indicator deployed visibly and permanently		
FBH stretch $< 18"$ or that which is stated by mfg - whichever is less ($H_i - H_f$)		inches
COMPLIANT		

Feet First STERNAL Attachment Requirements per Section 3.2.2.3.1		
SAMPLE #3		
Drop Height		inches
Max Arrest Force		lbs.
Hi - initial height		inches
Hf - final height		inches
FBH shall not release test torso		
FBH shall support test torso for 5 min post fall		
FBH shall support test torso at $< 50^\circ$		degrees
Min. one fall arrest indicator deployed visibly and permanently		
FBH stretch $< 18"$ or that which is stated by mfg - whichever is less ($H_i - H_f$)		inches
COMPLIANT		

Notes:

No sternal attachment point on this harness.

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4.3.5 Static Feet First Test - Sternal		
a) Secure test torso to simulate feet first fall b) Connect attachment elements to test equipment c) Mark buckle/adjuster locations to measure slippage d) Apply load of 3,600 lbs. and maintain for 1 minute. e) Release torso and evaluate in accordance with 3.2		

Feet First STERNAL Attachment Requirements per Section 3.2.2.3.2		
SAMPLE #1		
FBH shall not release test torso		
Slippage - Crotch strap adjuster - Right		inches
Slippage - Crotch strap adjuster - Left		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - Right		inches
Slippage - Torso strap adjuster - Left		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
COMPLIANT		

Feet First STERNAL Attachment Requirements per Section 3.2.2.3.2		
SAMPLE #2		
FBH shall not release test torso		
Slippage - Crotch strap adjuster - Right		inches
Slippage - Crotch strap adjuster - Left		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - Right		inches
Slippage - Torso strap adjuster - Left		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
COMPLIANT		

Feet First STERNAL Attachment Requirements per Section 3.2.2.3.2		
SAMPLE #3		
FBH shall not release test torso		
Slippage - Crotch strap adjuster - Right		inches
Slippage - Crotch strap adjuster - Left		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - Right		inches
Slippage - Torso strap adjuster - Left		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
COMPLIANT		

Notes:

No sternal attachment point on this harness.

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4.3.3 Dynamic Feet First Drop Test		
a) Position D-ring per manufacturer's recommendation		
b) Connect test shackle to D-ring		
c) Lower test torso to remove slack and measure vertical distance to floor (H_i).		
d) Raise torso to required height		
e) Release torso and evaluate in accordance with 3.2		
f) Measure and record MAF		
g) Record final height (H_f)		
h) Calculate FBH stretch: $H_s = H_i - H_f$		

Feet First FRONTAL Attachment Requirements per Section 3.2.3.1.1		
SAMPLE #1		
Drop Height		inches
Max Arrest Force		lbs.
Hi - initial height		inches
Hf - final height		inches
FBH shall not release test torso		
FBH shall support test torso for 5 min post fall		
FBH shall support test torso at < 30°		degrees
Min. one fall arrest indicator deployed visibly and permanently		
FBH stretch < 18" or that which is stated by mfg - whichever is less (Hi - Hf)		inches
COMPLIANT		

Feet First FRONTAL Attachment Requirements per Section 3.2.3.1.1		
SAMPLE #2		
Drop Height		inches
Max Arrest Force		lbs.
Hi - initial height		inches
Hf - final height		inches
FBH shall not release test torso		
FBH shall support test torso for 5 min post fall		
FBH shall support test torso at < 30°		degrees
Min. one fall arrest indicator deployed visibly and permanently		
FBH stretch < 18" or that which is stated by mfg - whichever is less (Hi - Hf)		inches
COMPLIANT		

Feet First FRONTAL Attachment Requirements per Section 3.2.3.1.1		
SAMPLE #3		
Drop Height		inches
Max Arrest Force		lbs.
Hi - initial height		inches
Hf - final height		inches
FBH shall not release test torso		
FBH shall support test torso for 5 min post fall		
FBH shall support test torso at < 30°		degrees
Min. one fall arrest indicator deployed visibly and permanently		
FBH stretch < 18" or that which is stated by mfg - whichever is less (Hi - Hf)		inches
COMPLIANT		

Notes:

No frontal attachment point on this harness.

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4.3.5 Static Feet First Test - Frontal		
a) Secure test torso to simulate feet first fall b) Connect attachment elements to test equipment c) Mark buckle/adjuster locations to measure slippage d) Apply load of 3,600 lbs. and maintain for 1 minute. e) Release torso and evaluate in accordance with 3.2		

Feet First FRONTAL Attachment Requirements per Section 3.2.3.1.2		
SAMPLE #1		
FBH shall not release test torso		
Slippage - Crotch strap adjuster - Right		inches
Slippage - Crotch strap adjuster - Left		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - Right		inches
Slippage - Torso strap adjuster - Left		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
COMPLIANT		

Feet First FRONTAL Attachment Requirements per Section 3.2.3.1.2		
SAMPLE #2		
FBH shall not release test torso		
Slippage - Crotch strap adjuster - Right		inches
Slippage - Crotch strap adjuster - Left		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - Right		inches
Slippage - Torso strap adjuster - Left		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
COMPLIANT		

Feet First FRONTAL Attachment Requirements per Section 3.2.3.1.2		
SAMPLE #3		
FBH shall not release test torso		
Slippage - Crotch strap adjuster - Right		inches
Slippage - Crotch strap adjuster - Left		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - Right		inches
Slippage - Torso strap adjuster - Left		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
COMPLIANT		

Notes:

No frontal attachment point on this harness.

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4.3.5 Static Feet First Test - Shoulder

a) Secure test torso to simulate feet first fall
 b) Connect attachment elements to test equipment
 c) Mark buckle/adjuster locations to measure slippage
 d) Apply load of 3,600 lbs. and maintain for 1 minute.
 e) Release torso and evaluate in accordance with 3.2

Feet First SHOULDER Attachment Requirements per Section 3.2.4.1.1		
SAMPLE #1		
FBH shall not release test torso		
Slippage - Crotch strap adjuster - Right		inches
Slippage - Crotch strap adjuster - Left		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - Right		inches
Slippage - Torso strap adjuster - Left		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
COMPLIANT		

Feet First SHOULDER Attachment Requirements per Section 3.2.4.1.1		
SAMPLE #2		
FBH shall not release test torso		
Slippage - Crotch strap adjuster - Right		inches
Slippage - Crotch strap adjuster - Left		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - Right		inches
Slippage - Torso strap adjuster - Left		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
COMPLIANT		

Feet First SHOULDER Attachment Requirements per Section 3.2.4.1.1		
SAMPLE #3		
FBH shall not release test torso		
Slippage - Crotch strap adjuster - Right		inches
Slippage - Crotch strap adjuster - Left		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - Right		inches
Slippage - Torso strap adjuster - Left		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
COMPLIANT		

Notes:

No shoulder attachment point on this harness.

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4.3.5 Static Feet First Test - Rear
a) Secure test torso to simulate feet first fall b) Connect attachment elements to test equipment c) Mark buckle/adjuster locations to measure slippage d) Apply load of 3,600 lbs. and maintain for 1 minute. e) Release torso and evaluate in accordance with 3.2

Feet First REAR Attachment Requirements per Section 3.2.5.2.1		
SAMPLE #1		
FBH shall not release test torso		
Slippage - Crotch strap adjuster - Right		inches
Slippage - Crotch strap adjuster - Left		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - Right		inches
Slippage - Torso strap adjuster - Left		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
COMPLIANT		

Feet First REAR Attachment Requirements per Section 3.2.5.2.1		
SAMPLE #2		
FBH shall not release test torso		
Slippage - Crotch strap adjuster - Right		inches
Slippage - Crotch strap adjuster - Left		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - Right		inches
Slippage - Torso strap adjuster - Left		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
COMPLIANT		

Feet First REAR Attachment Requirements per Section 3.2.5.2.1		
SAMPLE #3		
FBH shall not release test torso		
Slippage - Crotch strap adjuster - Right		inches
Slippage - Crotch strap adjuster - Left		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - Right		inches
Slippage - Torso strap adjuster - Left		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
COMPLIANT		

Notes:

No rear attachment point on this harness.

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4.3.5 Static Feet First Test - Hip		
a) Secure test torso to simulate feet first fall b) Connect attachment elements to test equipment c) Mark buckle/adjuster locations to measure slippage d) Apply load of 3,600 lbs. and maintain for 1 minute. e) Release torso and evaluate in accordance with 3.2		

Feet First DORSAL Attachment Requirements per Section 3.2.6.1.1		
SAMPLE #1		
FBH shall not release test torso		Pass
Slippage - Crotch strap adjuster - Right	0	inches
Slippage - Crotch strap adjuster - Left	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - Right	0	inches
Slippage - Torso strap adjuster - Left	0	inches
Slippage - Other	0	inches
Slippage - Other	0	inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
COMPLIANT	Yes	

Feet First DORSAL Attachment Requirements per Section 3.2.6.1.1		
SAMPLE #2		
FBH shall not release test torso		Pass
Slippage - Crotch strap adjuster - Right	0	inches
Slippage - Crotch strap adjuster - Left	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - Right	0	inches
Slippage - Torso strap adjuster - Left	0	inches
Slippage - Other	0	inches
Slippage - Other	0	inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
COMPLIANT	Yes	

Feet First DORSAL Attachment Requirements per Section 3.2.6.1.1		
SAMPLE #3		
FBH shall not release test torso		Pass
Slippage - Crotch strap adjuster - Right	0	inches
Slippage - Crotch strap adjuster - Left	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - Right	0	inches
Slippage - Torso strap adjuster - Left	0	inches
Slippage - Other	0	inches
Slippage - Other	0	inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
COMPLIANT	Yes	

Notes:

Tested as PRO1

Job Number: 136954
 Product: Harness
 Model Number: 37009 Series 1 Harness, M-L, PT legs, 3-D (dorsal, side)

Engineer: John Halas
 Tested By: Craig Allen
 Reviewed By: Andre Pelland
 Standard: ANSI Z359.11-2014

4.3.6 Fall Indicator Test

- a) Secure harness to test torso
- b) Attach Z359.13 compliant 6 ft. energy absorbing lanyard to D-ring
- c) Raise torso to allow 24 in. fall before energy absorbing component is deployed
- d) Release torso and evaluate in accordance with 3.2

Fall Arrest Indicator Test (Dorsal) Requirements per Section 3.2.1.3.4		
Sample ID:		
1	Did at least one fall arrest indicator deploy?	Yes
2	Did at least one fall arrest indicator deploy?	Yes
3	Did at least one fall arrest indicator deploy?	Yes

4.3.6 Fall Static Feet First Test for Lanyard Parking Attachment Element

- a) Secure harness to test torso to simulate feet-first fall
- b) Connect the attachment element to the static test equipment using test lanyard
- c) Apply and steadily increase the load until the connection between the lanyard parking attachment and the test lanyard separates completely
- d) Record the maximum force applied to the attachment element, and compare this with the requirement given in 3.1.10

Fall Arrest Indicator Test (Dorsal) Requirements per Section 3.2.1.3.4		
Sample ID:		
1	Did parking element break under 120 lbs?	Yes
2	Did parking element break under 120 lbs?	Yes
3	Did parking element break under 120 lbs?	Yes

Notes:

Tested as PRO1

Job Number: 136954

Product: Harness

Model Number: 37009 Series 1 Harness, M-L, PT legs, 3-D (dorsal, side)

Engineer: John Halas

Tested By: Craig Allen

Reviewed By: Andre Pelland

Standard: ANSI Z359.11-2014

5	Markings and Instructions	
5.1	Marking Requirements	
5.1.1	Markings shall be in English	Pass
5.1.2	Markings shall remain legible and endure for the life of the component, subsystem, or system being marked. Pressure-sensitive labels must conform to UL 969-2001, <i>Marking and Labeling Systems</i>	Yes
5.1.3	Full body harnesses shall be marked with:	Yes
	a) The material of construction	Yes
	b) The size or range of sizes	Yes
	c) Part number and/or model designation	Yes
	d) The month and year of manufacture	Yes
	e) The manufacturer name or logo	Yes
	f) An identifying number, unique to each individual FBH produced by the manufacturer	Yes
	g) A warning to follow manufacturer's instructions included with the equipment at the time of shipment.	Yes
	h) A label permanently attached to the lanyard parking attachment which either states, "Park Lanyard Here. See Instructions," verbally, or conveys this by means of a pictogram.	Yes
	i) A label defined as defined in 10a and 10b.	Yes

Figure 10a.

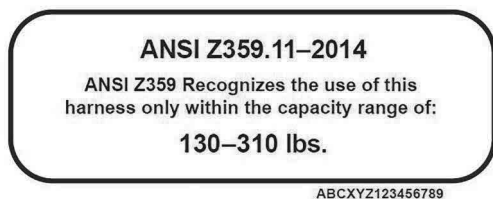
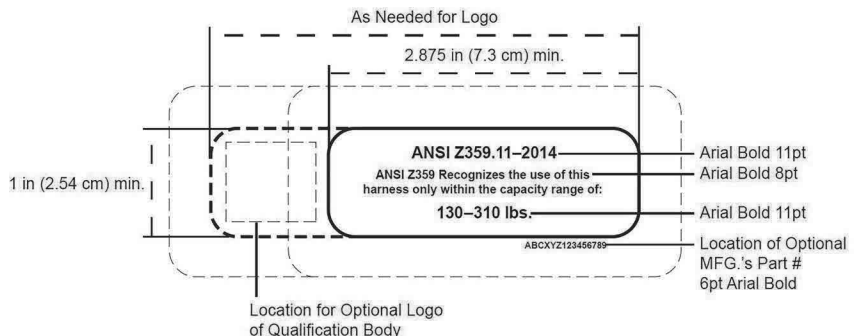


Figure 10b.



Job Number: 136954

Product: Harness

Model Number: 37009 Series 1 Harness, M-L, PT legs, 3-D (dorsal, side)

Engineer: John Halas

Tested By: Craig Allen

Reviewed By: Andre Pelland

Standard: ANSI Z359.11-2014

5.2	Instructions Requirements	
5.2.1	Instructions shall be provided to the user in English, and affixed to the equipment at the time of shipment from the manufacturer.	Yes
5.2.2	Instructions shall contain the following information:	Yes
	a) Annex A in its entirety, either incorporated in the manufacturer's instructions, as an appendix to the manufacturer's instructions, or separately provided with the product along with the manufacturer's instructions	Yes
	b) A statement that the manufacturer's instructions shall be provided to the users.	Yes
	c) Manufacturer's name, address, and telephone number.	Yes
	d) Manufacturer's part number and/or model designation for the equipment.	Yes
	e) Intended use and purpose of the equipment.	Yes
	f) Length of FBH Stretch H_s , and a warning to include other factors such as D-ring/connector length, settling of the user's body, and all other contributing elements when calculating fall clearance.	Yes
	g) Proper method of use and limitations of the equipment	Yes
	h) Illustrations showing locations and markings on the equipment	Yes
	i) Reproduction of printed information on all markings	Yes
	j) Inspection procedures (including frequency) required to assure the equipment is in serviceable condition and operating correctly.	Yes
	k) Criteria for discarding equipment that fails inspection.	Yes
	l) Procedures for cleaning maintenance and storage.	Yes
	m) Reference to ANSI/ASSE Z359.11 (Full Body Harnesses) and applicable regulations governing occupational safety.	Yes
	n) Acceptable use for all attachment elements (see Annex A).	Yes
5.2.3	Instructions shall require that only the equipment manufacturer, or persons or entities authorized in writing by the manufacturer, make repairs to the equipment.	Yes
5.2.4	Instructions shall require the user to remove equipment from service if it has been subjected to the forces of arresting a fall and will include information on inspection of load indicators.	Yes
5.2.5	Instructions shall require the user to have a rescue plan and the means at hand to implement it when using the FBH for fall arrest.	Yes

Job Number: 136954

Product: Harness

Model Number: 37009 Series 1 Harness, M-L, PT legs, 3-D (dorsal, side)

Engineer: John Halas

Tested By: Craig Allen

Reviewed By: Andre Pelland

Standard: ANSI Z359.11-2014

5.2.6	Instructions shall provide warnings against:	
	a) Altering equipment.	Yes
	b) Misusing equipment.	Yes
	c) Using combinations of components or sub-systems, or both, which may affect or interfere with the safe function of each other.	Yes
	d) Exposing the equipment to chemicals, heat, flames, or other environmental conditions, which may produce a harmful effect and to consult the manufacturer in case of doubt.	Yes
	e) Using the equipment around moving machinery and electrical hazards	Yes
	f) Using the equipment near sharp edges or abrasive surfaces	Yes
	g) Exposure to light (UV degradation).	Yes



Notes: