

Test Report Number: 2019012337145  
 Job Number: Qualification 354  
 Product Type: Harness  
 Product Model: 37257 Series 3 Harness, M-L, QC chest, QC legs, Sternal D-ring, Side D-rings  
 Dates of Manufacture: 01/01/19  
 Date(s) of Testing: 01/15/19, 01/16/19

This test report covers these additional products:

37100; 37101; 37102; 37103; 37104; 37105; 37106; 37107; 37108; 37109; 37110; 37111; 37112; 37113; 37114; 37114; 37115; 37116; 37117; 37118;  
 37119; 37120; 37121; 37122; 37123; 37124; 37125; 37126; 37127; 37128; 37129; 37130; 37131; 37132; 37133; 37134; 37135; 37136; 37137; 37138;  
 37139; 37140; 37141; 37142; 37143; 37144; 37145; 37146; 37147; 37148; 37149; 37150; 37151; 37152; 37153; 37154; 37155; 37156; 37157; 37158;  
 37159; 37160; 37161; 37162; 37163; 37164; 37165; 37166; 37167; 37168; 37169; 37170; 37171; 37172; 37173; 37174; 37175; 37176; 37177; 37178;  
 37179; 37180; 37181; 37182; 37183; 37184; 37185; 37186; 37187; 37188; 37189; 37190; 37191; 37192; 37193; 37194; 37195; 37196; 37197; 37198;  
 37199; 37200; 37201; 37202; 37203; 37204; 37205; 37206; 37207; 37208; 37209; 37210; 37211; 37212; 37213; 37214; 37215; 37216; 37217; 37218;  
 37219; 37220; 37221; 37222; 37223; 37224; 37225; 37226; 37227; 37228; 37229; 37230; 37231; 37232; 37233; 37234; 37235; 37236; 37237; 37238;  
 37239; 37240; 37241; 37242; 37243; 37244; 37245; 37246; 37247; 37248; 37249; 37250; 37251; 37252; 37253; 37254; 37255; 37256; 37258; 37259

<u>Tests Completed</u>	<u>Test Date</u>	<u>ANSI/ASSE Z359.11-2014</u>	<u>Pass/Fail</u>
Dynamic Performance FF	1/15		Pass
Dynamic Performance HF	1/15		Pass
Static Strength FF	1/15		Pass
Static Strength FF (Hip)	1/16		Pass
Load Bearing Straps	N/A		
General Requirements	1/28		Pass
Marking and Instructions	1/25		Pass
Fall Arrest Indicator	1/15		Pass

Please see attached test data for details

John Halas, Engineer:  Date: 2/12/19

Craig Allen, Test Technician:  Date: 02/18/19

Andre Pelland Compliance and Quality Manager:  Date: 02/18/19

**TEST EQUIPMENT**

Equipment	Model	Serial	
Dynamic load cell		916507A	
Static load cell		347989A	



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.	N/A
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.	N/A
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.	N/A
3.1.6	For FBHs integrated into a vest or other garments, the design shall allow visual inspection of the FBH.	N/A
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.	N/A
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.	N/A
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

### 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	5261	lbs.
Hi - initial height	50.5	inches
Hf - final height	39.5	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 (Hi - Hf)	11	inches
<b>COMPLIANT</b>	Yes	

Feet First DORSAL Attachment Requirements per Section 3.2.1.3.1		
SAMPLE #2		
Drop Height	48	inches
Max Arrest Force	5141	lbs.
Hi - initial height	49.5	inches
Hf - final height	39	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 (Hi - Hf)	10.5	inches
<b>COMPLIANT</b>	Yes	

Feet First DORSAL Attachment Requirements per Section 3.2.1.3.1		
SAMPLE #3		
Drop Height	48	inches
Max Arrest Force	5129	lbs.
Hi - initial height	49.75	inches
Hf - final height	40.5	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 (Hi - Hf)	9.25	inches
<b>COMPLIANT</b>	Yes	

Notes:

### 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	1329	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
<b>COMPLIANT</b>	Yes	

Head First DORSAL Attachment Requirements per Section 3.2.1.3.2		
SAMPLE #2		
Drop Height	48	inches
Max Arrest Force	1650	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
<b>COMPLIANT</b>	Yes	

Head First DORSAL Attachment Requirements per Section 3.2.1.3.2		
SAMPLE #3		
Drop Height	48	inches
Max Arrest Force	1679	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
<b>COMPLIANT</b>	Yes	

Notes:

### 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 - <b>Right</b>	0	inches
Slippage - Crotch strap adjuster - <b>Left</b>	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - <b>Right</b>	0	inches
Slippage - Torso strap adjuster - <b>Left</b>	0	inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
<b>COMPLIANT</b>	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 - <b>Right</b>	0	inches
Slippage - Crotch strap adjuster - <b>Left</b>	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - <b>Right</b>	0	inches
Slippage - Torso strap adjuster - <b>Left</b>	0	inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
<b>COMPLIANT</b>	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 - <b>Right</b>	0	inches
Slippage - Crotch strap adjuster - <b>Left</b>	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - <b>Right</b>	0	inches
Slippage - Torso strap adjuster - <b>Left</b>	0	inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
<b>COMPLIANT</b>	Yes	

#### Notes:

### 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	48	inches
Max Arrest Force	3898	lbs.
Hi - initial height	52.5	inches
Hf - final height	44.75	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 < 50°	14	degrees
Min. one fall arrest indicator deployed visibly and permanently		Pass
FBH stretch < 18" or that which is stated by mfg - whichever is less ( $H_i - H_f$ )	7.75	inches
<b>COMPLIANT</b>	Yes	

Feet First STERNAL Attachment Requirements per Section 3.2.2.3.1		
SAMPLE #2		
Drop Height	48	inches
Max Arrest Force	3682	lbs.
Hi - initial height	54.25	inches
Hf - final height	44	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 < 50°	18	degrees
Min. one fall arrest indicator deployed visibly and permanently		Pass
FBH stretch < 18" or that which is stated by mfg - whichever is less ( $H_i - H_f$ )	10.25	inches
<b>COMPLIANT</b>	Yes	

Feet First STERNAL Attachment Requirements per Section 3.2.2.3.1		
SAMPLE #3		
Drop Height	48	inches
Max Arrest Force	3545	lbs.
Hi - initial height	54	inches
Hf - final height	47.25	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 < 50°	15	degrees
Min. one fall arrest indicator deployed visibly and permanently		Pass
FBH stretch < 18" or that which is stated by mfg - whichever is less ( $H_i - H_f$ )	6.75	inches
<b>COMPLIANT</b>	Yes	

**Notes:**

### 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		Pass
Slippage - Crotch strap adjuster - <b>Right</b>	0	inches
Slippage - Crotch strap adjuster - <b>Left</b>	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - <b>Right</b>	0	inches
Slippage - Torso strap adjuster - <b>Left</b>	0	inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
<b>COMPLIANT</b>	Yes	

Feet First STERNAL Attachment Requirements per Section 3.2.2.3.2		
SAMPLE #2		
FBH shall not release test torso		Pass
Slippage - Crotch strap adjuster - <b>Right</b>	0	inches
Slippage - Crotch strap adjuster - <b>Left</b>	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - <b>Right</b>	0	inches
Slippage - Torso strap adjuster - <b>Left</b>	0	inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
<b>COMPLIANT</b>	Yes	

Feet First STERNAL Attachment Requirements per Section 3.2.2.3.2		
SAMPLE #3		
FBH shall not release test torso		Pass
Slippage - Crotch strap adjuster - <b>Right</b>	0	inches
Slippage - Crotch strap adjuster - <b>Left</b>	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - <b>Right</b>	0	inches
Slippage - Torso strap adjuster - <b>Left</b>	0	inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
<b>COMPLIANT</b>	Yes	

**Notes:**



### 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
<b>COMPLIANT</b>		

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
<b>COMPLIANT</b>		

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
<b>COMPLIANT</b>		

**Notes:**

No frontal attachment point on this harness

### 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 - <b>Right</b>		inches
Slippage - Crotch strap adjuster - <b>Left</b>		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - <b>Right</b>		inches
Slippage - Torso strap adjuster - <b>Left</b>		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
<b>COMPLIANT</b>		

### Feet First FRONTAL Attachment Requirements per Section 3.2.3.1.2

#### SAMPLE #2

FBH shall not release test torso		
Slippage - Crotch strap adjuster - <b>Right</b>		inches
Slippage - Crotch strap adjuster - <b>Left</b>		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - <b>Right</b>		inches
Slippage - Torso strap adjuster - <b>Left</b>		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
<b>COMPLIANT</b>		

### Feet First FRONTAL Attachment Requirements per Section 3.2.3.1.2

#### SAMPLE #3

FBH shall not release test torso		
Slippage - Crotch strap adjuster - <b>Right</b>		inches
Slippage - Crotch strap adjuster - <b>Left</b>		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - <b>Right</b>		inches
Slippage - Torso strap adjuster - <b>Left</b>		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
<b>COMPLIANT</b>		

### Notes:

No frontal attachment point on this harness

### 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		Pass
Slippage - Crotch strap adjuster - <b>Right</b>	0	inches
Slippage - Crotch strap adjuster - <b>Left</b>	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - <b>Right</b>	0	inches
Slippage - Torso strap adjuster - <b>Left</b>	0	inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
<b>COMPLIANT</b>	Yes	

Feet First SHOULDER Attachment Requirements per Section 3.2.4.1.1		
SAMPLE #2		
FBH shall not release test torso		Pass
Slippage - Crotch strap adjuster - <b>Right</b>	0	inches
Slippage - Crotch strap adjuster - <b>Left</b>	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - <b>Right</b>	0	inches
Slippage - Torso strap adjuster - <b>Left</b>	0	inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
<b>COMPLIANT</b>	Yes	

Feet First SHOULDER Attachment Requirements per Section 3.2.4.1.1		
SAMPLE #3		
FBH shall not release test torso		Pass
Slippage - Crotch strap adjuster - <b>Right</b>	0	inches
Slippage - Crotch strap adjuster - <b>Left</b>	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - <b>Right</b>	0	inches
Slippage - Torso strap adjuster - <b>Left</b>	0	inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
<b>COMPLIANT</b>	Yes	

**Notes:**

### 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 - <b>Right</b>		inches
Slippage - Crotch strap adjuster - <b>Left</b>		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - <b>Right</b>		inches
Slippage - Torso strap adjuster - <b>Left</b>		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
<b>COMPLIANT</b>		

### Feet First REAR Attachment Requirements per Section 3.2.5.2.1

#### SAMPLE #2

FBH shall not release test torso		
Slippage - Crotch strap adjuster - <b>Right</b>		inches
Slippage - Crotch strap adjuster - <b>Left</b>		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - <b>Right</b>		inches
Slippage - Torso strap adjuster - <b>Left</b>		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
<b>COMPLIANT</b>		

### Feet First REAR Attachment Requirements per Section 3.2.5.2.1

#### SAMPLE #3

FBH shall not release test torso		
Slippage - Crotch strap adjuster - <b>Right</b>		inches
Slippage - Crotch strap adjuster - <b>Left</b>		inches
Slippage - Chest strap adjuster		inches
Slippage - Torso strap adjuster - <b>Right</b>		inches
Slippage - Torso strap adjuster - <b>Left</b>		inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		
Straps tear (other than that above)?		
<b>COMPLIANT</b>		

### Notes:

No rear attachment point on this harness

### 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 - <b>Right</b>	0	inches
Slippage - Crotch strap adjuster - <b>Left</b>	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - <b>Right</b>	0	inches
Slippage - Torso strap adjuster - <b>Left</b>	0	inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
<b>COMPLIANT</b>		

### 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 - <b>Right</b>	0	inches
Slippage - Crotch strap adjuster - <b>Left</b>	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - <b>Right</b>	0	inches
Slippage - Torso strap adjuster - <b>Left</b>	0	inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
<b>COMPLIANT</b>		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 - <b>Right</b>	0	inches
Slippage - Crotch strap adjuster - <b>Left</b>	0	inches
Slippage - Chest strap adjuster	0	inches
Slippage - Torso strap adjuster - <b>Right</b>	0	inches
Slippage - Torso strap adjuster - <b>Left</b>	0	inches
Slippage - Other		inches
Slippage - Other		inches
Tongue buckle tears > 1" or adjacent eyelet?		Pass
Straps tear (other than that above)?		Pass
<b>COMPLIANT</b>		Yes

### Notes:

### 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

### 4.3.7 Fall Static Feet First Test for Lanyard Parking Attachment Element

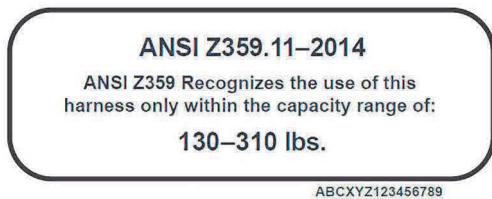
- a) Secure harness to test torso to simulate feet-first fall
- b) Connect the attachment element to the static test equipment using test lanyard
- c) Apply and steadily increase the load until the connection between the lanyard parking attachment and the test lanyard separates completely
- d) Record 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

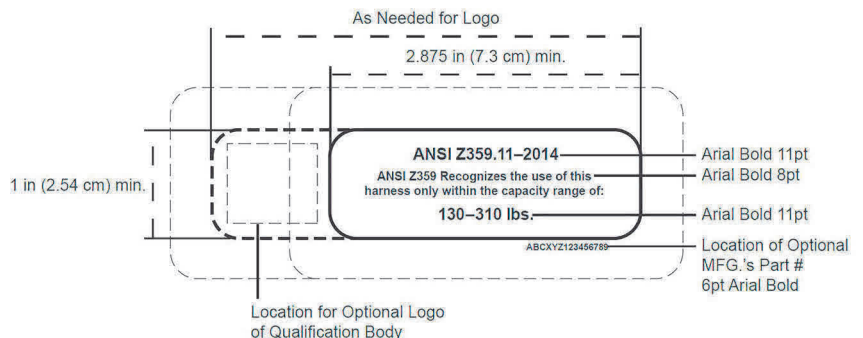
Notes:

<b>5</b>	<b>Markings and Instructions</b>	
<b>5.1</b>	<b>Marking Requirements</b>	
<b>5.1.1</b>	Markings shall be in English	Yes
<b>5.1.2</b>	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
<b>5.1.3</b>	<b>Full body harnesses shall be marked with:</b>	
	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.**



<b>5.2</b>	<b>Instruction Requirements</b>	
<b>5.2.1</b>	Instructions shall be provided to the user in English, and affixed to the equipment at the time of shipment from the manufacturer.	Yes
<b>5.2.2</b>	<b>Instructions shall contain the following information:</b>	
	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
<b>5.2.3</b>	Instructions shall require that only the equipment manufacturer, or persons or entities authorized in writing by the manufacturer, make repairs to the equipment.	Yes
<b>5.2.4</b>	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
<b>5.2.5</b>	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



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: