

ARNÉS DE SEGURIDAD

CLUTE®



Descripción:

El nuevo arnés de cuerpo entero, modelo CL3A, cuenta con una fabricación de calidad a un precio económico. Y está diseñado para ser usado como parte de un sistema personal de detención de caídas, contención, subida de escaleras o como un sistema de posicionamiento en el trabajo. Nuestro arnés CL3A presenta un diseño ergonómico y está diseñado para trabajadores que pesan hasta 140 kg. (310 lb).

Características:

- Diseño: Arnés de cuerpo entero en "H".
- Material: Cinta plana en poliéster de alta tenacidad.
- Ancho: 44 mm. Resistencia a la tracción de 5000 lb. (22.2 kN).
- Costuras: Hilos y puntadas son 100% poliamida, esta fibra es sumamente resistente a las distintas pruebas a realizarse como impacto, tracción y al roce del usuario diario.
- 1 Argolla "D" dorsal (en la espalda).
- 2 Argolla "D" para posicionamiento y restricción (en la cintura).
- 1 Hebilla de ajuste frontal en correas de pecho.
- 2 Hebillas de ajuste en correas de piernas.
- 2 Hebillas de ajuste frontal de las correas laterales.
- 2 Sujetadores de PVC o zona de Parking para los ganchos de la línea de vida (Eslingas).
- Correa subglútea e indicador de impacto en la cinta del dorso.
- Jebe de plásticos en las terminaciones de la cinta (tipo traba) para la sujeción de las cintas.
- Cobertor para la protección de las etiquetas informativas sobre el producto.

PRODUCTO	MATERIAL	PRUEBA DE CARGA	PRUEBA DE ROTURA MIN.	PIEZAS	PESO	CERTIFICADO
ANILLO DORSAL	Aleación de acero con tratamiento térmico.	3600 lb. 16 kN. 1635 kg.	5000 lb. 23 kN. 2265 kg.		122 gr.	ANSI Z359.12-2019. CSA Z259.12-16.
ANILLO LATERAL	Aleación de acero con tratamiento térmico.	3600 lb. 16 kN. 1635 kg.	5000 lb. 23 kN. 2265 kg.		142 gr.	ANSI Z359.12-2019. CSA Z259.12-16.
HEBILAS REGULADORAS	Aleación de acero con tratamiento térmico.	2400 lb. 10 kN. 1050 kg.	4000 lb. 18 kN. 1850 kg.		36 gr.	ANSI Z359.12-2019. CSA Z259.12-16.

Certificaciones:

- ANSI Z359.11-2014

Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.

Síguenos:

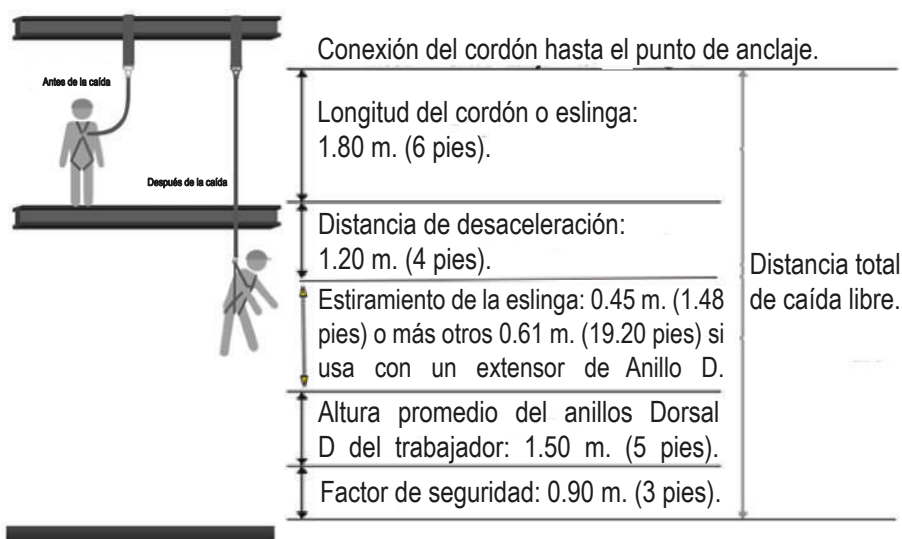


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CÁLCULO DE LA DISTANCIA TOTAL DE CAÍDA.

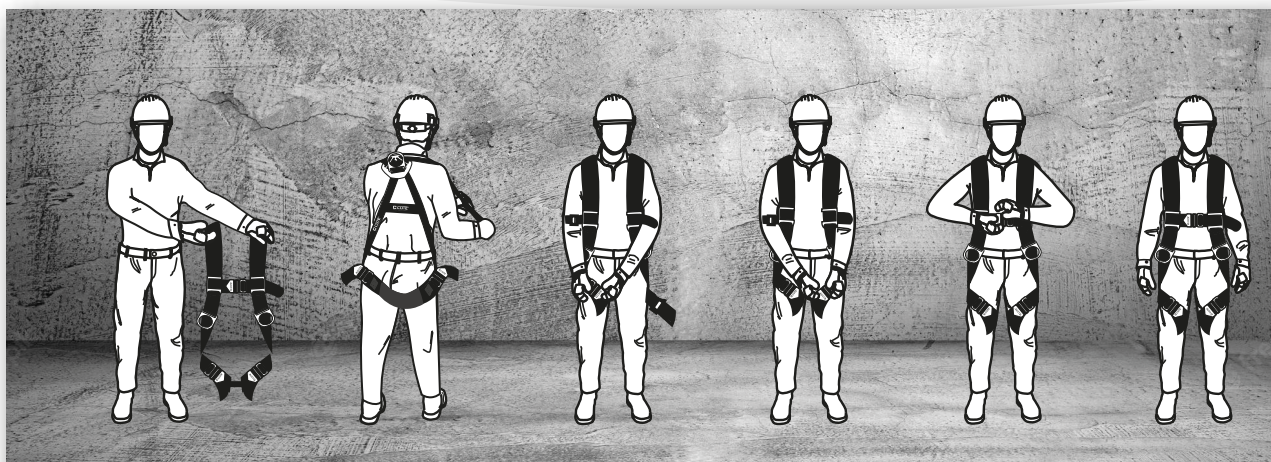


LIMPIEZA:

INSTRUCCIONES DE LIMPIEZA:

- El arnés puede ser lavado con un detergente suave o jabón líquido. Se puede frotar para mejorar la limpieza.
- Se debe enjuagar con agua y secar en un lugar fresco alejados de los lugares directos al sol y sin exponerlos a altas temperaturas o vapor.
- Lavar y limpiar las argollas y pasadores en forma regular.
- No utilizar sustancias tales como gasolina, líquidos desengrasantes clorados (por ejemplo, tricloroetilenos), disolventes orgánicos o agentes de limpieza abrasivos.

COLOCACIÓN DEL ARNÉS DE CUERPO COMPLETO:



***ADVERTENCIA:** No altere las hebillas o reatas con marcadores de tinta y/o eléctricos para metal, esto debilita la resistencia del equipo.

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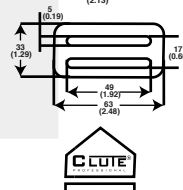
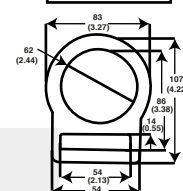
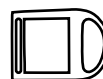
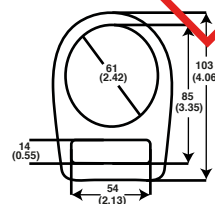
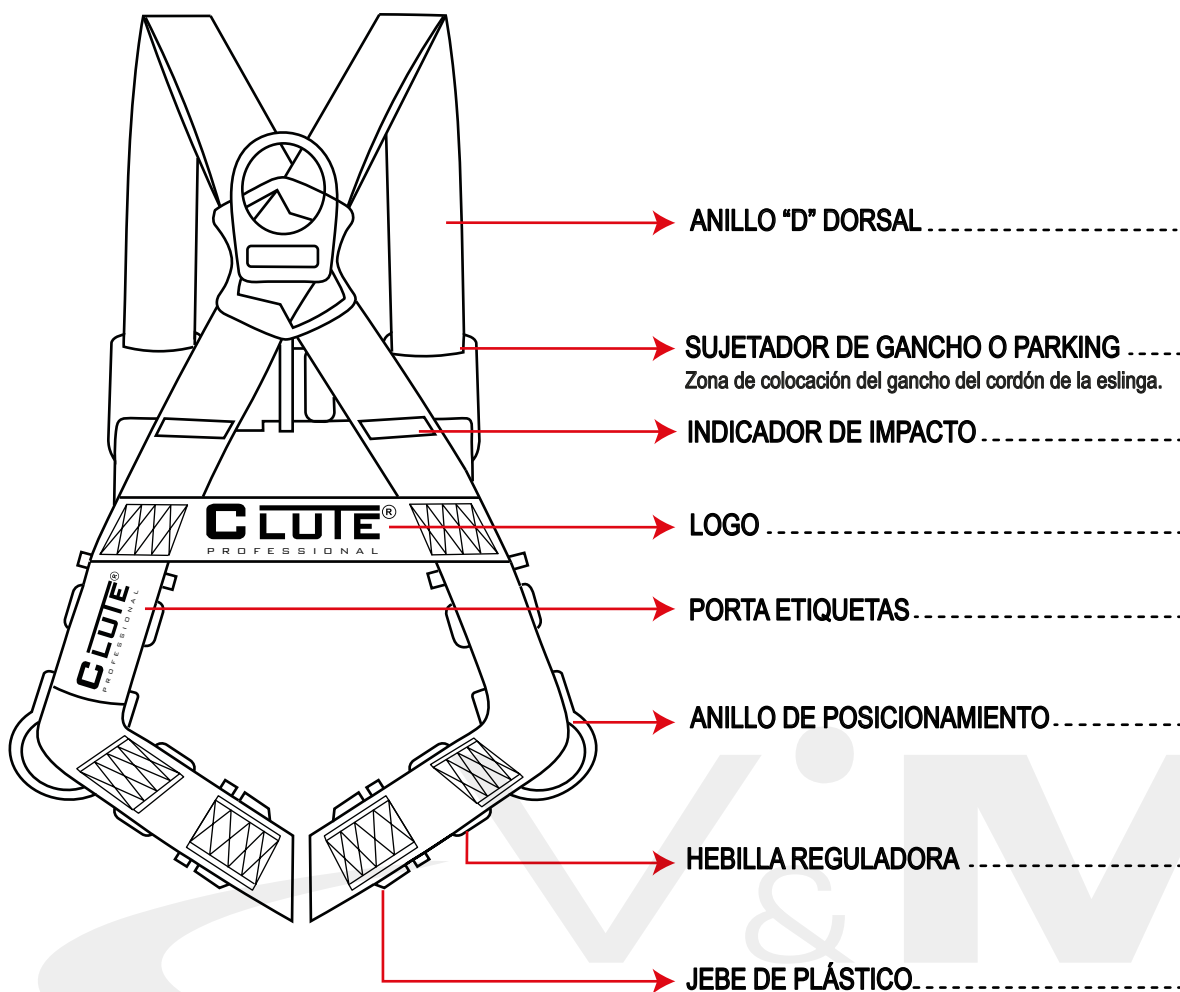


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APLICACIONES:

Principales riesgos para DETENCIÓN DE CAÍDAS, POSICIONAMIENTO Y RESTRICCIÓN DE CAÍDAS.

- Construcción
- Minería
- Ferrierías
- Manufactura
- Agroindustria
- Aeronáutica
- Pintura e Industria en general, que considere el trabajo sobre los 6 m. de alturas.

RECOMENDACIONES:

Antes de usar el arnés, es necesario verificar que se encuentre en buen estado, limpio, que no tenga roturas o desgarramientos y que sus costuras se encuentren en buenas condiciones.

Una vez inspeccionado, podrá colocarse el arnés; deberá ajustar las piernas y el pecho, sin apretar exageradamente, pero no debe permitir que este quede suelto. Si el arnés está muy ajustado puede interrumpir la circulación y si queda muy suelto no cumplirá su función correctamente ante una posible caída, pudiendo generar mutilaciones o traumas que terminen en posibles muertes.

Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.



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Test Report

Personal Fall Arrest Equipment ANSI/ASSE Z359.11-2014 Full Body Harness

Report no:

2.22.08.26

Customer:

Manufacturer:
as advised by the Customer

Customer order:

T/1036

Order received:

12 June 2022

Model:

U3501 / CL3A

Dates of tests:

23 June 2022 to 30 August 2022

Signed:



Steven Sum, Laboratory Manager

Issued: 1 September 2022

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Conditions

This report may be reproduced and distributed to your customers, provided that it is reproduced and distributed in full.

Specimens will be disposed of four weeks from the date of this report, unless otherwise instructed.

Opinions, comments and interpretations expressed in this report are shown in italics.

Copies of INSPEC interpretations referenced in this report are available upon request.

Tests marked ☒ are not included in our ANAB Scope of Accreditation.

This report has been provided in accordance with our standard Terms of Business, which can be viewed at, and printed from:

<http://inspec-international.com/ToB.pdf>

If you have difficulty accessing the Terms of Business, you may contact us for a copy.

Summary of assessment*

Clause	Requirement	Assessment (See Key)
3.1	Design requirements	Ltd
3.1.10	Static Feet First – Lanyard parking attachment element	Pass
3.2	Attachment Element Requirement	
3.2.1	Dorsal	Pass
3.2.1.3.1	Dynamic Feet First	Pass
3.2.1.3.2	Dynamic Head First	Pass
3.2.1.3.3	Static Feet First	Pass
3.2.1.3.4	Fall Arrest Indicator	Pass
3.2.2	Sternal	
3.2.2.3.1	Dynamic Feet First	
3.2.2.3.2	Static Feet First	
3.2.2.3.3	Fall Arrest Indicator	
3.2.3	Frontal	
3.2.3.1.1	Dynamic Feet First	
3.2.3.1.2	Static Feet First	
3.2.4	Shoulder	
3.2.4.1.1	Static Feet First	
3.2.5	Waist, Rear	
3.2.5.2.1	Static Feet First	
3.2.6	Hip	Pass
3.2.6.1.1	Static Feet First	Pass
3.2.7	Suspension Seat	
3.2.7.1.1	Static Feet First	
3.3	Component Requirements	
3.3.1	Load bearing straps	Ltd
3.3.1.2	Strap tensile test	Pass
3.3.1.5	Strap tensile test (after abrasion conditioning)	Pass
3.3.2	Thread and Stitching	Ltd
3.3.3	Connecting Components	NAs
3.3.1.2	Strap tensile test (soft loops)	
3.3.1.5	Strap tensile test (soft loops – after abrasion conditioning)	



Clause	Requirement	Assessment (See Key)
5.1	Marking requirements	Ltd
5.2	Instructions requirements	Ltd

Key

	Shading shows the clauses requested. Any other clauses were not requested.
Pass	Requirement satisfied.
Ltd	Testing requested was insufficient completely to verify compliance with the clause. Refer to the "Result details" section for more information.
Fail	Requirement not satisfied. Refer to the "Result details" section for more information.
NAs	Assessment not carried out.
NAP	Requirement not applicable.
NT	Requested but not tested due to early termination following failure.

* Assessment relates only to those specimens which were tested and are the subject of this report.

Submission details

Product	Quantity	Dates received	INSPEC specimen no.
Full body harness, model U3501	02	11 July 2022	2K12901 to 02
Full body harness, model U1501	07	23 August 2021	2J18001 to 07
Shoulder straps, part # 2W0394	15 m		2J17608A to 08J
Leg straps, part # 2W0327	15 m		2J17609A to 09J

Procedures

The specimens detailed within the submission above were used for the tests covered by this report.

Testing was performed in accordance with ANSI Z359.11-2014 unless otherwise specified below. Reference should be made to the standard when reading this report.

Unless stated otherwise, specimens were tested in the condition as received by INSPEC.

Testing was performed at INSPEC's laboratory in Kunshan, China.

The manufacturer made the following declarations:

Full body harness U3501 is a variant model of U1501. They are the same family of products. Harness U3501 incorporated additional hip attachment elements.

Full body harness U1501 was tested and report in INSPEC Test Report 2.21.11.31

To avoid duplicate testing, performance testing results of model U1501 are shared across to model U3501.

Result details**3 Requirements****3.1 Design Requirements**

Specimen 2K12901 was assessed.

3.1.1	The specimen permanently incorporated a dorsal attachment element.	Pass
	The specimen did incorporate other attachment element. The other attachment element was located at the hip.	
3.1.2	The specimen did incorporate a load bearing sub-pelvic strap.	Pass
3.1.3	All shoulder straps on the specimen came together at the dorsal location and were crossed and attached with a connector (D-ring).	Pass
	Testing of the connector (D-ring) was not requested.	NAs
3.1.4	The specimen permanently incorporated a back-strap as a means to control the separation of the shoulder straps on the back of the full body harness.	Pass
	When the specimen was mounted on to the torso as per manufacturer's instructions, some portion of the back-strap was located between datum levels G and K.	Pass
3.1.5	The specimen was not equipped with modular components or assemblies.	NAP
3.1.6	The specimen was not integrated into a vest or garment.	NAP
3.1.7	The specimen was equipped with two fall arrest indicators at the dorsal area.	Pass
	Both fall arrest indicators deployed during dynamic testing defined in section 3.2 when attached to the dorsal attachment element.	Pass
	It was visually possible to inspect both fall arrester indicators.	Pass
3.1.7.1	The specimen was not equipped with other fall arrest indicators.	NAP
3.1.8	The specimen was not equipped with connecting subsystem combinations.	NAP
3.1.9	The specimen did include strap retainers (keepers) which serve to control the loose ends of straps.	Pass

3.1.10 Static Feet First Test - Lanyard Parking Attachment Element

Specimen 2J18001 was assessed.

The specimen was equipped with two lanyard parking attachment elements. Both lanyard parking attachment elements did not differ in design.

During the static feet-first test, the lanyard parking attachment element disengagement load was 62.9 pounds. This value was less than the maximum 120 pounds permitted. **Pass**

Specimen 2K12901 was assessed.

3.1.11 It was not possible to remove elements of the full body harness that support the shoulders / upper torso from those that support the legs / lower torso. **Pass**

3.1.12 The dorsal attachment element was located laterally along the vertical centreline of the full body harness. **Pass**

3.1.13 The specimen did not incorporate a sternal attachment element. **NAp**

3.1.14 The specimen did include a sub-pelvic strap. **NAp**

3.2 Attachment Element Requirements**3.2.1 Dorsal**

Specimen 2J12901 was assessed.

The dorsal attachment element was located in the dorsal area shown in figure 4 of the standard. **Pass**

The dorsal attachment element was specified in the User Instructions to be used for fall arrest. **Pass**

3.2.1.1 The dorsal attachment was specified in the User Instructions to be used in travel restraint or rescue.

3.2.1.2 During the dynamic performance test, it was confirmed that the design of the full body harness directed the load through the shoulder straps supporting the user and around the thighs. **Pass**

3.2.1.3 Dorsal Attachment Element Requirements**3.2.1.3.1 Dynamic Feet First Test**

Specimen 2J18002 was assessed.

During the dynamic feet-first test, the test torso was not released. **Pass**

The harness did support the test torso for a period of five minutes post fall. **Pass**

During this period, the angle of the test torso to vertical was 5 degrees. This value is less than the maximum 30 degrees permitted. **Pass**

Both fall arrest indicators deployed visibly and permanently. **Pass**

Full body harness stretch was 10.1 inches.

Full body harness stretch stated in the manufacturer's instructions was 18 inches.

Full body harness stretch shall not exceed 18 inches, or that which is stated in the manufacturer's instructions, whichever is less, was satisfied **Pass**

3.2.1.3.2 Dynamic Head First Test

Specimen 2J18003 was assessed.

During the dynamic head-first test, the test torso was not released. **Pass**

The harness did support the test torso for a period of five minutes post fall. **Pass**

During this period, the angle of the test torso to vertical was 6 degrees. This value is less than the maximum 30 degrees permitted. **Pass**

Both fall arrest indicators deployed visibly and permanently. **Pass**

3.2.1.3.3 Static Feet First Test

Specimen 2J18004 was assessed.

During the static feet-first test, the test torso was not released from the harness. **Pass**

During the static feet-first test, all adjusters did not slip. **Pass**

All straps did not show signs of tearing. **Pass**

3.2.1.3.4 Fall Arrest Indicator Test

Specimen 2J18005 was assessed.

When tested using the dorsal attachment element, both fall arrest indicators deployed visibly and permanently. **Pass**

3.2.6 Hip

Specimen 2K12902 was assessed.

The hip attachment elements were specified in the User Instructions to be used as a pair. **Pass**

The hip attachment elements were specified in the User Instructions to be used solely for work positioning or travel restraint. **Pass**

The hip attachment elements were specified in the User Instructions not to be used for fall arrest. **Pass**

3.2.6.1 Hip Attachment Element Requirements**3.2.6.1.1 Static Feet First Test**

Specimens 2K12902 were assessed.

During the static feet first-test, the test torso was not released from the harness. **Pass**

During the static feet-first test, all adjusters did not slip. **Pass**

All straps of the full body harness did not show signs of tearing. **Pass**

3.3 Components Requirements**3.3.1 Load Bearing Straps**

Specimen 2K12901 was assessed.

3.3.1.1 The minimum width of the load bearing straps was 44 mm. This is more than the minimum 41 mm specified. **Pass**

3.3.1.2 Strap specimens 2J17608A to 08E and 2J17609A to 09E withstood the tensile tests of 5,000 pounds applied for 1 minute without breaking. **Pass**

3.3.1.3 The material and characteristics of load-bearing straps were not assessed. Manufacturer to certify. **NAs**

3.3.1.4 The ends of load bearing straps were hot-cut finished to prevent fraying. **Pass**

3.3.1.5 Following abrasion conditioning, strap specimens 2J17608F to 08J and 2J17609F to 09J withstood the tensile tests of 3,600 pounds applied for 1-minute without breaking. **Pass**

3.3.1.6 Straps in contact with metal connectors at attachment elements were protected from wear. Plastic sleeves were used. **Pass**

3.3.1.7 There were no buckle and eyelet type adjusters used in the specimen. **NAp**

3.3.2 Thread and Stitching

Specimen 2K12901 was assessed.

3.3.2.1 The material and characteristics of threads used was not assessed. Manufacturer to certify. **NAs**

3.3.2.2 All types of stitching were not assessed. Manufacturer to certify. **NAs**

3.3.2.3 Threads used for sewing the harness were grey colour. This contrasted with the orange and black colours of the load bearing straps. **Pass**

3.3.3 Connecting Components

Specimen 2K12901 was assessed.

3.3.3.1 Testing of connecting components was not requested. **NAs**

3.3.3.2 Soft loop attachment was not used. **NAp**

3.3.3.3 Soft loop attachment was not used. **NAp**

3.3.3.4 Soft loop attachment was not used. **NAp**

5 Marking and Instructions

5.1 Marking Requirements

Specimen 2K12901 was assessed.

5.1.1	-	Markings shall be in English.	Pass
5.1.2		The legibility and attachment of required markings shall be designed to endure for the life of the component, subsystem or system been marked. Mfr to certify.	NAs
	a	<i>Markings were legible and attached after testing completed</i>	-
	b	When pressure-sensitive labels are used, they shall comply with the applicable provision of the reference in Section 7.6. Mfr to certify.	NAs
	c	When labels are concealed, a permanent marking shall be visible to the unaided eye that describes how to access the labels.	Pass
	a	The material of construction; [Polyester; Nylon; Steel]	Pass
	b	The size or range of sizes; [UNIVERSAL]	Pass
	c	Part number and/or model designation; [U3501]	Pass
	d	The month and year of manufacture; [06/2022]	Pass
	e	The manufacturer's name or logo; [GiGA Safety]	Pass
	f	An identifying number, unique to each individual FBH produced by the manufacturer; [00002]	Pass
	g	A warning to follow Mfr instructions included with the equipment at the time of shipment from the Mfr.	Pass
		A label permanently attached to the lanyard parking attachment which either	Pass
	h	states "Park Lanyard Here. See instructions." verbally or conveys this by means of a pictogram.	
5.1.3		If the harness stretch measurement for the frontal attachment exceeds 18 inches (457 mm) in 3.2.3.1.1, then harness shall include a warning with the stated stretch out distance.	NAp
	j	If the FBH includes an integrated D-ring extender, a warning shall be included on the D-ring extender that increased free fall should be considered when using this product.	NAp
	k	Applicable pictogram in Figure 12 with a minimum height of 0.8 inch (20 mm) or applicable pictograms from CSA Z259.10-18 Figure 1 – Figure 8.	Pass
	l	A label as defined in Figure 11a and 11b.	Pass
		1) The label shall be placed in a prominent location on the FBH	Pass
		2) If the label is part of a label pack or book, the label shall be placed so that the user will see it first.	Pass
		3) The label may be modified to include the mark of the qualification body, and may include a part number located on the label outside of the border as needed by the manufacturer as defined in figure 10a and 10b.	NAp

5.2 Instruction Requirements

The instructions to users have been assessed as detail below, with reference only to the relevant requirements of the Standard.

INSPEC Technical Services has not assessed these instructions with respect to claims made by the manufacturer outside of these requirements, and therefore accepts no responsibility for the legitimacy of any such claims.

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.	Ltd
	<i>User Instructions were provided electronically and used for assessment</i>	
5.2.2	Instructions shall contain the following information:	
a)	Annex A in its entirety, either incorporated in the Mfr's instructions, as an appendix to the Mfr's instructions, or separately provided with the product along with the Mfr's instructions.	Pass
b)	A statement that the Mfr's instructions shall be provided to the users.	Pass
c)	Manufacturer's name, address and telephone number.	Pass
d)	Manufacturer's part number and/or model designation for the equipment.	Pass
e)	Intended use and purpose of the equipment.	Pass
f)	Length of FBH Stretch H _s , and warning to include other factors such as D-ring/connector length, setting of the user's body and all other contributing elements when calculating fall clearance.	Pass
g)	Proper method of use and limitations of the equipment.	Pass
h)	Illustrations showing locations and markings on the equipment.	Pass
i)	An illustration demonstrating the load indicator before and after deployment.	Pass
j)	Reproduction of printed information on all markings.	Pass
k)	Inspection procedures (including frequency) required to assure the equipment is in serviceable condition and operating correctly.	Pass
l)	Criteria for discarding equipment that fails inspection.	Pass
m)	Procedures for cleaning, maintenance and storage.	Pass
n)	Reference to ANSI/ASSE Z359.11 (full body harnesses) and applicable regulations governing occupational safety.	Pass
o)	Acceptable use for all attachment elements (see Annex A)	Pass
5.2.3	Instructions shall require that only the equipment Mfr, or persons or entities authorized in writing by the Mfr, make repairs to the equipment.	Pass
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.	Pass

- 5.2.5 Instructions shall require the user to have a rescue plan and means at hand to implement it when using the FBH for fall arrest. **Pass**
- 5.2.6 Instructions shall provide warnings against:
- a) Altering equipment **Pass**
 - b) Misusing equipment **Pass**
 - c) Using combinations of components or sub-systems, or both, which may affect or interfere with the safe function of each other. **Pass**
 - 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. **Pass**
 - e) Using the equipment around moving machinery and electrical hazards. **Pass**
 - f) Using the equipment near sharp edges or abrasive surfaces. **Pass**
 - g) Exposure to light (UV degradation) **Pass**

Estimates of the uncertainty of measurement

Clause	Test	Uncertainty
3.1.1	Dorsal attachment	Not applicable
3.1.2	Sub-pelvic strap	Not applicable
3.1.3	Shoulder straps	Not applicable
	Connector	See report
3.1.4	Waist belt or back strap – control of separation of shoulder straps	Not applicable
3.1.5	Modular components or assemblies, as appropriate	Not applicable
3.1.5.1	Modular components.	See report
3.1.5.2	Attachment element extender	Length
3.1.6	Full body harness integrated into a vest	±0.1 inches
3.1.7	Fall Arrest Indicator	Not applicable
3.1.8	Harness with attached connecting subsystem combinations	Not applicable
3.1.9	Strap retainers (keepers)	See report
3.1.10	Lanyard parking attachment element - Disengagement load	Not applicable
3.1.11	Support – shoulders/upper torso	±3.4%
3.1.12	Location of single point attachment	Not applicable
3.1.13	Sternal attachment – bilateral elements	Not applicable
3.1.14	Sub-pelvic straps	Not applicable
3.2.1	Dorsal attachment element	Not applicable
3.2.1.3.1	Dorsal attachment element	Dynamic Feet First
3.2.1.3.2		Dynamic Head First
3.2.1.3.3	Dorsal attachment element	Static strength
		Slippage
3.2.1.3.4	Fall Arrest Indicator test – dorsal attachment	See Note 1
3.2.2	Sternal attachment element	Not applicable
3.2.2.3.1	Sternal attachment element	Dynamic Feet First
3.2.2.3.2	Sternal attachment element	Static strength
		Slippage
3.2.2.3.3	Fall Arrest Indicator test – sternal attachment	±3.4%
3.2.3	Frontal attachment element	See Note 1
3.2.3.1.1	Frontal attachment element	Static strength
3.2.3.1.2	Frontal attachment element	Slippage
		See Note 1
3.2.4	Shoulder attachment element	±1.3%

3.2.4.1.1	Shoulder attachment element	Static strength	See Note 1
		Slippage	±1.3%
3.2.5	Waist, Rear attachment element		Not applicable
3.2.5.2.1	Waist, Rear attachment element	Static strength	See Note 1
		Slippage	±1.3%
3.2.6	Hip attachment element		Not applicable
3.2.6.1.1	Hip attachment element	Static strength	See Note 1
		Slippage	±1.3%
3.2.7	Suspension Seat attachment element		Not applicable
3.2.7.1.1	Suspension Seat attachment element	Static strength	See Note 1
		Slippage	±1.3%
3.3.1.1	Straps	Width	±1.3%
3.3.1.2	Straps	Static strength	See Note 1
3.3.1.3	Straps – material and characteristics		Not applicable
3.3.1.4	Straps - terminations		Not applicable
3.3.1.5	Straps (after abrasion)	Static strength	See Note 1
3.3.1.6	Straps – contact with metal connectors		Not applicable
3.3.1.7	Buckle & eyelet type adjusters	Spacing	±0.1 mm
3.3.2.1	Threads and stitching – material		Not applicable
3.3.2.2	Lock stitching		Not applicable
3.3.2.3	Stitching – contrasting colour		Not applicable
3.3.3.1	Connecting components (except soft loops)		See report
3.3.3.2	Soft loop attachments		Not applicable
3.3.3.3	Soft loop	Static strength	See Note 1
	Soft loop (after abrasion)	Static strength	See Note 1
3.3.3.4	Soft loop attachments – protection from wear		Not applicable
5.1	Marking requirements		Not applicable
5.2	Instructions requirements		Not applicable

Note 1 The acceptance criterion for this test is a straightforward "Pass/Fail", rather than a numerical value. Consequently, as there is no value to be reported, uncertainty has not been reported either.

Note 2 The uncertainty value is based on a standard uncertainty multiplied by a coverage factor $k = 2$, which provides for a confidence level of approximately 95%. Values expressed as a percentage (%) are relative.

Note 3 It should be noted that the above values have not been taken into account when making assessment to the pass/fail criteria.