

# HARNESSES



# SAFETY

REFERENCE: 50-12-3

HARNESSES WITH 4 POINTS CONNECTION

## Descripción

*X model certified standard harness, with belt and 4 rings, Multipurpose.*

**Weight: 1456g**

## General Information

The harness is part of the Personal Fall Protection System and its use is recommended when carrying out work at heights. (according to requirements established by Colombian Government law, resolution 1409 de 2012).

-Its main function is to correctly distribute the force produced by the braking impact and allow the user to be suspended vertically. With an angle of inclination about 30°.

*This harness should be supplemented with positioning lanyard ref. 50-20 and ref. 50-21 (adjustable) or energy absorber system lanyard ref. 50-22 (in webbing) or any lanyard with similar features. In case of descent and ascent activities it is recommended to use Y-Lanyards with energy absorbing system as 50-23R (in webbing or rope) or lifeline with fall arrester.*

**Dorsal Ring**  
Metal ring located in the harness back. This ring must be connected to an energy absorbing lanyard and the maximum arresting force must not exceed 8kN (8000 pounds) or it should include a restriction lanyard to limit the user's displacement.



**Impact Indicator**  
Label indicating whether the equipment has been subjected to freefall. If the tag is activated, the equipment must be taken out of service.



**Product Label**



**Ring Bushing**



**Pectoral D Ring (limited falls)**  
Ring located in pectoral zone of the harness to carry out rescue, controlled ascent and descent and limited fall arrest activities.

**Lanyard Carrier**  
Connection point for the free arm of the sling



**Positioning Rings**  
Metal rings located in the side areas of the harness to support the user's weight when their activities are performed at heights with hands free.



**Connections Buckles**



**Adjusting Buckles**



**Certification**



ANSI/ASSE Z359.11-2014 NTC 2037- 2010

### IMPORTANT:

This element must not be used as implement for extreme sports with freefall.

**Technical Features**

- 100% polyester webbing with resistance to friction and abrasion.
- Includes label with product information and blank spaces to inspection.
- Label for custom marking with name and RH.
- Seam made of high resistance polyester thread.
- Metal rings with tropicalized protection.
- Includes adjusting buckles to hold the spare webbing.
- Manufactured in 45mm wide webbing.
- Webbing and seams for easy inspection.
- Integrated impact indicator.
- Includes lanyard carrier.
- This equipment meets requirements of ANSI/ASSE Z359.11-2014 and NTC 2037-2010.

**Applications:**

- Fall Arrest (dorsal ring)
- Movement Restriction (dorsal ring)
- Positioning on structures and poles (lateral rings)
- Controlled ascent and descent activities (frontal ring)
- To be used at:

Mining,  
Industry,  
Installations  
Construction  
Cabling  
Outside  
Cleaning

**Technical information**

REFERENCE	Q	REGULATORY REQUIREMENTS			MATERIAL	COLOR	WEIGHT
		NORM	MIN.STRENGTH	REAL VALUE			
Webbing		ANSI Z359.11-2014	22.2kN	29 kN	Polyester	Neon green and blue	
		NTC 2037-2010	22.2kN				
Connection Buckle	3	ANSI Z359.12-2009	15 kN	18,5 kN	Steel	Yellow Zinc	78g
		NTC 2037-2010	17,8 kN				
Graduation buckle	2	ANSI/Z359.12-2009	15 kN	19 kN	Steel	Yellow Zinc	96g
		NTC 2037-2010	17,8 kN				
Dorsal D ring	1	ANSI/Z359.12-2009	22.2kN	32 kN	Steel	Yellow Zinc	146g
		NTC 2037-2010	22.2kN				
Lateral D rings	2	ANSI/Z359.12-09	22.2kN	30 kN	Steel	Yellow Zinc	80g
		NTC 2037-2010	22.2kN				
Front D rings	1	ANSI/Z359.12-2009	22.2kN	40 kN	Steel	Yellow Zinc	170g
		NTC 2037-2010	22.2kN				
Lanyard carrier	1	ANSI/Z359.11-2014	Menor a 500 N	215 N	Polyethylene	Black	5,4g

**IMPORTANT:**

The service life of this product is given by the use, care, maintenance and proper storage

Pruebas de Laboratorio

ENSAYO	NORMA	REQUISITOS	VALOR MEDIDO	CUMPLE
<b>Resistencia Estática</b> (Ensayo realizado para los puntos de conexión dorsal, pectoral y lateral).	ANSI Z359.11-2014	Debe resistir una carga de 16 kN aplicada en cada uno de los puntos de conexión (argollas) durante 1 minuto sin romperse, deshilacharse ni soltar el torso de prueba; el deslizamiento en las hebillas ajustadores no debe ser mayor a 25 mm.	16 kN en cada punto de conexión.	SI
			No se rompió, deshilachó ni se soltó el torso de prueba.	
			No tiene deslizamiento en las hebillas ajustadoras.	
<b>Rendimiento dinámico</b> Simulando una caída de pie. (Ensayo realizado para los puntos de conexión dorsal, pectoral y frontal).	ANSI Z359.11-2014	El arnés se suelta de una altura que permita una caída que genere una fuerza de impacto mayor a 16 kN; al momento de la caída, el arnés debe sostener el torso de prueba al menos 5 minutos; el ángulo de reposo debe ser menor a 30° para caídas con la argolla dorsal; El estiramiento del arnés debe ser menor a 457 mm.	La Fuerza de Impacto generada es mayor a 16 kN.	SI
			El ángulo de reposo es: Dorsal: Entre 8° y 29°	
			El estiramiento del arnés está en el rango 50-250 mm	
			El arnés sostuvo el torso de prueba por mas de 5 minutos.	
<b>Rendimiento dinámico</b> Simulando una caída de cabeza (Ensayo realizado solo para el punto de conexión dorsal).	ANSI Z359.11-2014	El arnés se suelta de una altura que permita una caída en posición de cabeza que genere una fuerza de impacto mayor a 16 kN; al momento de la caída, el arnés debe sostener el torso de prueba al menos 5 minutos; el ángulo de reposo debe ser menor a 30°	La Fuerza de Impacto generada es mayor a 16 kN.	SI
			El ángulo de reposo está en el rango de 8° y 29°	
			El arnés sostuvo el torso de prueba por más de 5 minutos.	
<b>Prueba del indicador de caída</b>	ANSI Z359.11-2014	El arnés se suelta de una altura que permita una caída de 610 mm; se utiliza un absorbedor de energía certificado con Norma ANSI Z359.13-2013; al momento de la caída se debe activar el indicador de caída	Luego de la caída se activó el indicador de caída.	SI
<b>Resistencia Estática</b> (Ensayo realizado para el punto de conexión dorsal)	NTC 2037-2010	Debe resistir una carga de 22,2 kN aplicada en el punto de conexión dorsal durante 1 minuto sin romperse, deshilacharse ni soltar el torso de prueba; el deslizamiento en las hebillas ajustadores no debe ser mayor a 25 mm.	Se aplicó carga de 22,2 kN	SI
			No se rompió, deshilachó ni se soltó el torso de prueba.	
			No tiene deslizamiento en las hebillas ajustadoras.	
<b>Rendimiento dinámico</b> simulando una caída de pie y de cabeza (Ensayo realizado para el punto de conexión dorsal)	NTC 2037-2010	El arnés se suelta de una altura que permita una caída de 1 m; al momento de la caída, el arnés debe sostener el torso de prueba al menos 5 minutos; el ángulo de reposo debe ser menor a 30°.	No se soltó el torso de prueba	SI
			Se sostuvo el torso de prueba por mas de 5 minutos.	
			El ángulo de reposo medido fue: Caída de pie: Entre 8° y 19° Caída de Cabeza: Entre 9° y 10°	

**IMPORTANT:**

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Information on the Label

**Manufacturer logo**

**Product reference**

**Technical specification**

**Certificate institution**

**Manufacturer information**

**Preventive information**

**Product identification**

**Product date**

**Annual inspection number**

**Inspection date**

**Equipment functions description**

**Weight allowed to equipment use.**

Warnings

- The service life of this product is given by the use, care, maintenance and proper storage.
- Service life timeline starts at the moment the harness is subjected to first use. It should not be used manufacturing time to determine service time.
- It must be to follow instructions included within the harness at the moment it is dispatched.
- Before using this product, make a correct calculation of the requirements needed (height, activity, kind of work) to be sure the product is suitable.
- Do not alter the product.
- This product is not electricity, flame or chemical resistant, therefore take the necessary precautions for use in environments that have these sources of risk.
- This product offers limited protection in highly corrosive environments, therefore take the necessary precautions to protect the product and prolong its service life.
- This product has not sunlight protection so avoid long sun exposure which could cause discoloration on the product. Take the necessary precautions to protect the product and prolong its service life.
- The user must be trained to use this equipment; therefore, they must meet the training requirements established by Colombian Government law (resolucion 1409 de 2012).
- This equipment must be inspected once a year by qualified personal according EPI S.A.S. inspection standard.

Warranty Policies

- This product is certified under quality standards ANSI Z359. 11-2014 and NCT 2037-2010
- Warranty applies ONLY before first use due to manufacturing defects or defects of any of its parts.
- As manufacturing defects: Fraying in ropes or seams, rips, damaged plastic buckles, missing parts.

The product will be not accepted if presents:

- webbing with paint contamination or it is frayed by external elements.
- The seams show wear.
- Lack of any of the labels due to being torn off or illegibility of them by use.
- Damage on metal parts such as breaks, sharp edges, deformation, corrosion, chemical attack, alteration and abusive use.
- Damage on webbing produced by knots, excessive elongation, chemical attack, sulfation, excessive dirt, abrasion, alteration, excessive lubrication and abusive use.
- Alteration, Absence of parts, evidence of damage due to improperly performed functions, or by mechanical devices and connectors.

Note:

- It is important to read all the information included in the instruction guide before using any product.
- The company is not responsible for any product that has been repaired outside its facilities.
- Exchange of products due to low rotation is not accepted.

**IMPORTANT:**

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