

USER MANUAL WIND HARNESS



Configuration Wind Harness Model: 1831018

Max Capacity for ANSI: 130-310 LBS for 6 ft. free fall

Attachment Eye A in the Back

Attachment Eye A in the chest Area

2 attachments Eye for Work positioning

2 Loops for Tools

Length Adjustment at the shoulder straps

Length Adjustment at the shoulder straps

Click closures on the Harness

Back protection Plate

Size:	Model Number:	Article Number:
Size S-M	1831018.3	1360001001
Size L-XXL	1831018.4	1360001002

This harness complies with ANSI Z359.11-2014

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Warning

- This User Instruction Manual is not to be removed except by the user of this equipment.
- Current User Instruction Manuals must always be available to the user.
- Read and understand these instructions before using equipment.
- Do not throw away these instructions.

- Do not alter the equipment.
- Do not misuse the equipment
- Do not exposure to light (UV degradation).
- Failure to follow all instructions and limitations on the use of this equipment may result in serious personal injury or death.
- Prior to each use, inspect all personal fall arrest system equipment for wear, damage, and other deterioration. Defective components must be removed from service immediately.
- After a fall, the Hailo Wind Systems Full Body Harness must be removed from service and destroyed immediately.
- Thoroughly evaluate and plan all elements of your fall protection system(s) before using your equipment. Make sure that your system is appropriate for your needs and facility. Also be sure to calculate fall clearance and swing fall clearance.
- Users must have a rescue plan and the means to implement it. This plan must provide prompt employee rescue or assure that employees have the ability to rescue themselves in the event of a fall.
- Store this equipment in a cool, dry, and clean environment that is out of direct sunlight when not in use.
- After a fall occurs, this equipment must be removed from service and destroyed immediately.
- Failure to follow all instructions and limitations on the use of Personal Energy Absorbers and Energy Absorbing Lanyards may result in serious personal injury or death.
- Failure to have the leg straps of the Full Body Harness properly adjusted in the event of a fall arrest may result in serious personal injury or death.
- Never attach the unused leg of the lanyard back to the Hailo Wind Systems Full Body Harness anywhere other than an approved lanyard storage keeper.
- To minimize the potential for accidental disengagement, a Competent Person must ensure system compatibility.
- All equipment must be inspected before each use according to the instructions found in this User Instruction Manual. All equipment should be inspected by a qualified person on a regular basis.
- Never use fall protection equipment for purposes other than those for which it was designed.
- Environmental hazards should be considered when selecting fall protection equipment.
- Do not expose the equipment to any hazard which it is not designed to withstand. Consult Hailo Wind Systems Industrial in cases of doubt.
- Never remove product labels because they include important information for the Authorized Person/User.
- Only the equipment manufacturer, or persons or entities authorized in writing by the manufacturer, make repairs to the equipment.

1. Limitations for Use

- This equipment is designed to be used in temperatures ranging from -40°F to +130°F (-40°C to +54°C).
- Do not expose this equipment to chemicals or harsh solutions that may have a harmful effect. Contact Hailo Wind Systems Industrial with any questions.
- Use caution when working with this product near moving machinery, electrical hazards, sharp edges, or abrasive surfaces, as contact may cause equipment failure, personal injury, or death.
- Minors, pregnant women, and anyone with a history of back and/or neck problems should not use this equipment.
- Do not use or install equipment without proper training from a “Competent Person”.
- Only Hailo Wind Systems Industrial, or entities authorized in writing by Hailo Wind Systems Industrial, shall make repairs or alterations to the equipment.
- Hailo Wind Systems Full Body Harnesses are designed for users with a maximum capacity up to 310 lb.* (141 kg.) Including clothing, tools, etc.
 - *If the system is used by an employee having a combined tool and body weight between 310 lb. (140.6 kg.) and 400 lb. (181.4 kg.), then the employer must appropriately modify the criteria and protocols to provide proper protection for such heavier weights, or the system will not be deemed to be in compliance with the requirements of OSHA 1926.502(d) (16). [ANSI capacity range is 130 lb. – 310 lb. (59 kg. – 140.6 kg.).]*
- Personal Energy Absorbers and Energy Absorbing Lanyards marked with, “ANSI Z359.13,” and “6 ft. Free Fall” are designed for up to 6 ft. free fall applications with a maximum capacity up to 310 lb. (141 kg) including clothing, tools, etc.
- Hailo Wind Systems Full Body Harnesses shall be used as part of a personal fall arrest system that limits the maximum free fall distance to 6 ft. (1.8 m). If used with appropriate connecting system, Hailo Wind Systems Full Body Harnesses may be used with free falls exceeding 6 ft. (1.8 m).
- Hailo Wind Systems Full Body Harnesses shall only be used as part of a controlled descent or rescue system that eliminates free fall unless attached to the dorsal D-ring. When attached to the dorsal D-ring, the maximum free fall distance is 6 ft. (1.8 m).
- Hailo Wind Systems Full Body Harnesses shall only be used as part of a work positioning system that limits the maximum free fall distance to 2 ft. (0.6 m).
- Only use components rated for the same weight capacity or Higher. Not all fall protection components are rated for the same user weight capacity.
- Proper precautions should always be taken to remove any obstructions, debris, material, or other recognized hazards from the work area that could cause injuries or interfere with the effective operation of the system.
- Do not use fall protection equipment for towing or hoisting.
- Protect all synthetic material from slag, hot sparks, open flames, or other heat sources.
- Do not expose equipment to environmental hazards and chemicals which may produce a harmful effect. Polyester should be used in certain chemical or acidic environments.
- Do not allow equipment to come in contact with anything that will damage it including (but not limited to): sharp edges, abrasive surfaces, moving machinery, or high-temperature applications like welding, heat sources, and electrical areas.
- Evaluate space below work area to ensure potential fall path is clear of obstructions.
- Allow adequate fall clearance below the work surface.

2. Anchorage Requirements

All anchorages to which the Personal Energy Absorbers and Energy Absorbing Lanyards attach must meet the requirements of ANSI Z359.1-2007:

Anchorage to which personal fall arrest equipment is attached shall be capable of supporting at least 5,000 lb. (22.2 kN) per employee attached, or shall be designed, installed, and used as part of a complete personal fall arrest system which maintains a safety factor of at least two, under the supervision of a qualified person.

ANSI Z359.1-2007 states that anchorages in a personal fall arrest system must have strength capable of sustaining static loads applied in all directions permitted by the system of at least:

- (a) Two times the maximum arrest force permitted on the system with certification, or
- (b) 5,000 lb. (22.2 kN) in the absence of certification

When more than one personal fall arrest system is attached to the anchorage, the strength in (a) and (b) must be multiplied by the number of personal fall arrest systems attached to the anchorage.

Anchorage used in controlled descent and rescue systems must be capable of supporting loads of 3,100 ft-lb. (13.8 kN) for non-certified anchorages or a 5:1 safety factor for certified anchorages per ANSI Z359.4-2007.

Anchorage used in restraint systems must be capable of supporting loads of 1,000 ft-lb. (4.5 kN) for non-certified anchorages or two times the foreseeable force for certified anchorages per ANSI Z359.2-2007.

Anchorage used in work positioning systems must be capable of supporting loads of 3,000 ft-lb. (13.3 kN) for non-certified anchorages or two times the foreseeable force for certified anchorages per ANSI Z359.2-2007.

Anchorage should be located as vertically as possible above the user's head and be positioned as not to exceed the maximum allowable free fall for the system.

3. Connection Compatibility Limitations

All equipment must be coupled to compatible connectors. OSHA 29 CFR 1926.502 prohibits snap hooks from being engaged to certain objects unless two requirements are met:

1. It must be a locking type snap hook.
2. It must be "designed for" making such a connection.
 - a. "Designed for" means that the manufacturer of the snap hook specifically created the snap hook to be used to connect to the equipment in question.

The following conditions can result in rollout* when a non-locking snap hook is used. Avoid the following connections:

- Direct connection of a snap hook to horizontal lifeline.
- Two (or more) snap hooks connected to one D-ring.
- Two snap hooks connected to each other.
- A snap hook connected back on its integral lanyard.
- A snap hook connected to a webbing loop or webbing lanyard.
- Improper dimensions of the D-ring, rebar, or other connection point in relation to the snap hook dimensions that would allow the snap hook keeper to be depressed by a turning motion of the snap hook.



* Rollout: A process by which a snap hook or carabiner unintentionally disengages from another connector or object to which it is coupled. (ANSI Z359.0-2007)

4.0 Fall Clearance/Clear Fall Charts

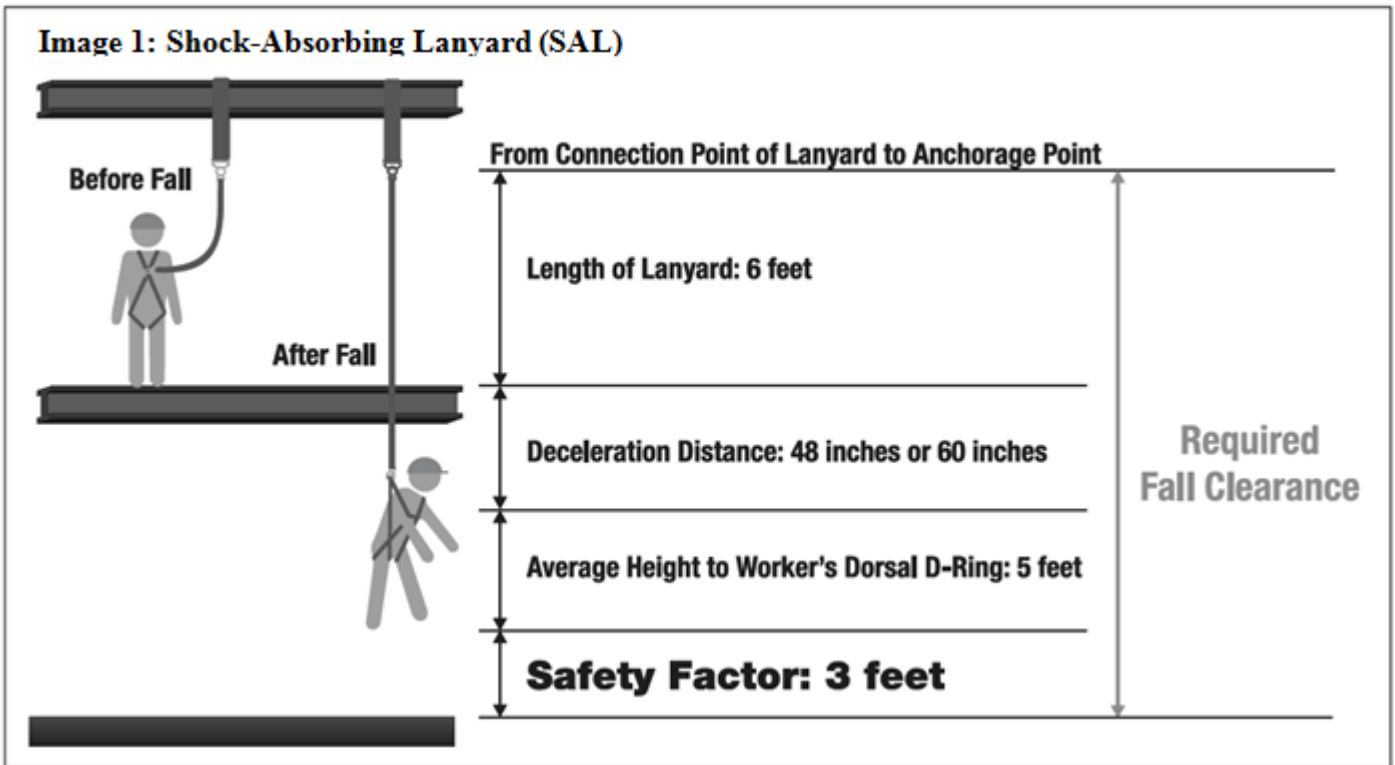
Clearance Requirements

Image 1 shows a shock-absorbing lanyard anchored overhead with the other end connected to the dorsal D-ring of a full body harness. Note that the length of your shock-absorbing lanyard in relation to where it is attached is directly related to the amount of fall clearance that you will need. When using a shock-absorbing lanyard, include the following distances in your calculations:

Using the 6 Foot Hailo Wind Systems Shock-Absorbing Lanyard will require a total fall clearance of approximately 18 feet (5.5 meters) as measured from the anchorage point of lanyard to the nearest obstruction below. The total fall clearance combines the sum of the length of the lanyard, the maximum elongation of the lanyard (4 feet or 1.2 meters), the average distance between the worker's dorsal D-ring (5 feet or 1.5 meters), and the safety factor (3 feet or 0.9 meters).

Using an extended free fall (12 foot) Hailo Wind Systems Shock Absorbing Lanyard will require a total fall clearance of approximately 20 feet (6.1 meters) when anchored at foot level and measured from the anchorage point of lanyard to the nearest obstruction below. The total fall clearance combines the sum of the length of the lanyard, free fall distance, the maximum elongation of the lanyard (5 feet or 1.5 meters), the average distance between the worker's dorsal D-ring, (5 feet or 1.5 meters), and the safety factor (3 feet or 0.9 meters).

Image 1: Shock-Absorbing Lanyard (SAL)



Swing Fall

To minimize the possibility of a swing fall, work as directly under the anchorage connector as possible. Striking objects horizontally, due to the pendulum effect, may cause serious injury. Swing falls also increase the vertical fall distance of a worker, compared to a fall directly below the anchorage connector. Swing falls may be reduced by using overhead anchorage connectors that move with the worker.



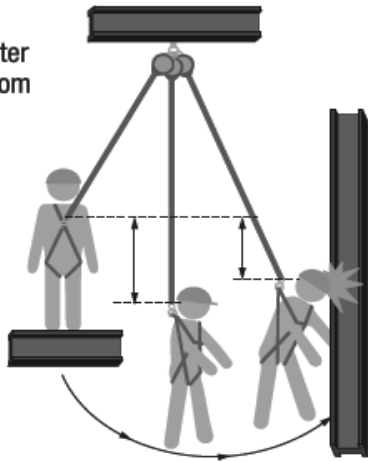
WARNING

Workers accessing areas greater than 30° off-plumb from overhead anchorage are at a higher risk for severe injury.

Striking objects horizontally due to the pendulum effect of a swing fall may cause serious injury or death.

Swing Fall

WARNING: Workers accessing areas greater than 30° off plumb from overhead anchorage are at a higher risk for severe injury.



5.0 Attachment Points



A: Chest D-ring are used for ladder climbing & rescue only, please always restrict the free fall distance less than 2 feet (0.6m). Chest D-ring is not for fall arrest.

B: Hip D-rings are used for positioning and restraint systems. Always use both hip D-ring connections when securing work positioning devices. Hip D-rings are not for fall arrest or climbing applications.

C: Front D-ring is used for positioning and restraint systems.

D: The dorsal (back) D-ring affixed to all Hailo Wind Systems Full Body Harnesses is for fall arrest or restraint systems. The dorsal D-ring may also be used for rescue applications.

6.0 Donning



WARNING

Not all fall protection components are rated for the same user weight capacity. Only use components rated for the same weight capacity.

There must be a functional rescue plan if users of fall protection systems cannot rescue themselves.

Note: Sewn terminations should be secure, complete, and not visibly damaged. No load indicators shall be deployed. Damaged and other deteriorated and defective components must be immediately removed from service.

Fitting an Hailo Wind Systems Full Body Harness

Follow step from 1 to 8 for wearing harness.

Step 1: Hold the harness by the dorsal D-ring and shake to allow any tangled straps to fall into place as shown in Fig. 1

Step 2: Unbuckle chest, leg and waist straps. If the harness has a belt, unbuckle it too.

Step 3: Slip the straps over the shoulders, so the back D-ring is located in the middle of the back between shoulder blades.

Step 4: Connect the chest strap and position in the mid chest area, then tighten shoulder straps.

Step 5: Pull harness up or down at the back so waist belt sits on the upper hip and connect belt buckles.

Step 6: Pull the end of one leg strap between the legs and secure to the opposite end.

Repeat this step with the other leg. If harness has a belt, connect that after the leg straps.

Step 7: After all the buckles have been connected, adjust so that the harness fits snug, but allows a full range of movement.

Step 8: Use the back D-ring or the front anchor point joined together by a connector as anchor point for fall arrest systems. To locate the anchor points on the harness, check for the "A" marking near them.



7.0 Training

Employers are responsible for providing training to any employee who may be exposed to fall hazards. Training will enable an employee to recognize and reduce fall hazards. Training must be conducted by a Competent or Qualified Person. Trainer and trainees must not be exposed to fall hazards during the training course.

8.0 Inspection

Frequency

Hailo Wind Systems Full Body Harnesses must be inspected prior to each use and annually by an “Competent Person” other than the user.

To Inspect Webbing

Bend a portion of the webbing 15-20 cm into an upside-down ‘U’ shape. Continue along all webbing inspecting for tears, cuts, fraying, abrasion, discoloration, burns, holes, mold, pulled or broken stitches, or other signs of wear and damage.

Adjust all keepers, buckles, padding, and D-ring to inspect webbing hidden by these components.

Sewn terminations must be secure, complete, and not visibly damaged.

Check all buckles for damage, distortion, cracks, breaks, and rough or sharp edges. Inspect for any unusual wear, frayed or cut fibers, or broken stitching of the buckle attachments. Make sure buckles properly engage.

Ensure that the Quick-Connect buckle's dual-tab release mechanism is free of debris and engages properly. Double-check the buckle locking mechanism by tugging on both halves of the buckle to make sure it is firmly connected and will not disengage.

All markings must be legible and attached to the product.

All hardware must be free of cracks, sharp edges, deformation, corrosion, or any evidence of defect.

9.0 Cleaning, Maintenance, and Storage

Cleaning

Hailo Wind Systems Full Body Harnesses can be wiped down with a mild detergent and missed with a clean cloth to remove detergent. The hardware can also be wiped down with a clean, dry cloth to remove grease or dirt.

Maintenance


Any Hailo Wind Systems Full Body Harness requiring maintenance must be tagged "unusable" and removed from service.


Storage


- When not in use, Hailo Wind Systems Wind Systems Full Body Harnesses should be stored in a cool, dry place out of direct sunlight.
- Do not store in areas where damage from environmental factors such as heat, light, excessive moisture, oil, chemicals and their vapors, or other degrading elements may be present.
- Do not store damaged equipment or equipment in need of maintenance in the same area as product approved for use. Equipment must be cleaned and dried prior to storage.
- Equipment that has been stored for an extended period must be inspected as described in these *User Instructions* prior to use.

10.0 Labeling

All labeling must be legible and attached to the full body harness.

Etiqueta No. 1/3		DO NOT REMOVE THIS LABEL/NO QUITTE ESTA ETIQUETA			
		Model/Modelo:	1831018.3	Capacity/Capacidad: (Included worker weight, clothing and tools) (Incluye ropa, herramienta y peso del usuario.)	130-310 Lbs.
		Material/Materiales:	Polyester/ Poliéster		
		Size/Tamaño:	S-M	Free Fall Limit/Distancia Máxima de Caída Libre:	(6 ft./1.8 m)/(6 pies/1.8mst)
		Date Made/Fecha Fabricación:	07/2018	Back D Ring/Argolla Espalda	For Fall Arrest/Para La Detención de Caídas.
		Serial No./Número Serie:	000004	Side D Rings/Argollas Laterales	For Positioning Only/Para Posicionamiento solamente.
		Meets/Cumple:	ANSI Z359.11-2014	Chest D Ring/Argollas pecho	For Fall Arrest/Para La Detención de Caídas.
Made In/Hecho en:	China				

Etiqueta No. 2/3		DO NOT REMOVE THIS LABEL/NO QUITTE ESTA ETIQUETA WARNING/PRECAUCION:	
		<p>Read & heed all instructions in user manual supplied with harness. Remove from service if subjected to fall arrest. Failure to follow warnings and instructions can result in serious injury or death.</p> <p>Lea y siga todas las instrucciones del manual del usuario que acompaña al arnés. Retire de uso si ha sido sometido a la detención de una caída. El no seguir las advertencias e instrucciones puede producir lesiones graves o la muerte.</p>	

Etiqueta No. 3/3		DO NOT REMOVE THIS LABEL/NO QUITTE ESTA ETIQUETA											
		Mark/Punch On Grip-Marque/Perfore en la Red.											
		1- Initial In Service Date/Fecha Inicio Servicio.											
		2- Date Of Passed Inspection/Fecha de Inspección Aprobada.											
		3- Competent Person To Inspect Every Six Months.											
		4- Inspect Before Each Use / Inspeccione Antes De Cada Uso.											
		Punch/Perfore.	1										
	2												
	3												

ANSI Z359.11-2014

ANSI Z359 Recognizes the use of this harness only within the capacity range of:

130-310 lbs.

PART#: 1831018.3



Notes

If equipment fails inspection IMMEDIATELY REMOVE FROM SERVICE.

User must inspect prior to EACH use.

Competent Person must do complete formal inspection at least 1 time per 6 month period.

Competent Person has to inspect and initial. Date of first use: _____.

Product lifetime is 5 years as long as it passes pre-use and Competent Person inspections. REMOVE FROM SERVICE 5 years after date of first use, or, if not recorded, from date of manufacture. This inspection log must be specific to one Internal Shock Lanyard. Separate inspection logs must be used for each Internal Shock Lanyard. All inspection records must be made visible and available to all users at all times.

Inspection Record

Product	WIND HARNESS
Model / Type	1831018.3 Size S-M <input type="checkbox"/> 1831018.4 Size L-XXL <input type="checkbox"/>
Serial number	
Year of manufacture	
Date of purchase	
Date of first use	
User Name	

Inspection Record

Date	Reason for the Entry 1 = regular Review 2 = Repairs	Documentation Repairs / Identified damage	Name / Signature Expert	Date of Next Review

<p>Notified Body involved with design stage & involved in the production control phrase: INSPEC International Ltd. (N.B 0194) 56 Leslie Hough Way Salford, Greater Manchester M6 6AJ U.K.</p>	
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<p>Manufacturer: Ningbo Paloma Fall Protection Equipments Co., LTD Block 3, No 367 Buzheng East Road, Haishu, Ningbo, China PC: 315176.</p>	